DRAFT – REVISION 0

2009 Infrastructure Update to

Electric Utility Baseline Strategy for 2005-2030 Electric Infrastructure

Prepared For

Rochester Public Utilities

July 2009

Project 49188





2009 Infrastructure Update

prepared for

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prepared by

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

This report section presents a summary of the 2009 Infrastructure Update (Study or Study Update). The Study was completed by Burns & McDonnell Engineering Company (B&McD) for Rochester Public Utilities (RPU). The objectives, methodology, and results of the Study are described in the following sections

ES.1 STUDY OBJECTIVES

The updated analysis required to support the ongoing long term resource decisions is the subject of this report. The objective of this update was to analyze the power supply needs and regulatory requirements of RPU to the 2045 time frame in order to identify any longer term issues which could impact shorter term decisions. The major regulatory and power supply resource issues which confront RPU include:

- The long range development of power supply resources in anticipation of a contract extension or termination with SMMPA in 2030
- The development of renewable resources to meet Minnesota requirements
- The benefit of the Silver Lake power plant as a long term resource
- The examination of DSM impacts to RPU's long range resource plan

ES.2 KEY ASSUMPTIONS

The following general assumptions are applicable to this Study:

- The study period for the SMMPA contract extension analysis covers the years 2025 through 2044 and the study period for the wind RFP and renewable energy analysis covers the years 2010 through 2030.
- Except where noted otherwise, all assumptions were escalated in real dollar terms based on 2009\$.
- RPU must maintain capacity reserves of 15 percent above peak load (net of CROD) throughout the study period.
- In scenarios where CROD is not continued, the contract terminates December 31, 2030. In scenarios where CROD is continued, the contract continues at 216 MW and its other current terms through the study period.
- No RPU resources are retired throughout the study period.

- The hourly load shape provided by RPU for the 2006 calendar year was used as the basis for the study load shape adjusted based on future load growth projections.
- Future load growth projections were based on recent estimates from SMMPA.
- The discount rate for RPU for financing terms was 6.0 percent, with longer term resources financed over 30 years, and shorter term resources financed over 20 years.

In addition, there are a number of key variables which require forecasts over the life of the study. The forecasted variables include:

- Demand and Energy Forecast (See Section 2.1.2)
- Coal and Biomass Fuel Forecast (See Section 2.2.1)
- Natural Gas Price Forecast (See Section 2.2.2)
- Spot Market Energy Price Forecast (See Section 2.2.3)
- Estimated Carbon Tax Rate Forecast (See Section 2.3)

ES.3 LOAD FORECAST

The analysis of future resource requirements necessitates knowledge of the future loads to be served by the utility. The development of the load forecast used in this Update Study considers the historical load growth, effects of economic development, weather, the impacts of ongoing demand side management programs and various other factors. The load forecast used was based on linear growth of a recent SMMPA projection for RPU demand and energy requirements to 2030 and based on average growth thereafter. The historical load for 2006 was provided on an hourly basis by RPU and used as a starting load shape, modified based on future load growth projections. Table ES-1 shows the projected demand and energy forecast used in this analysis over the period 2010 through 2044.

Year	Demand (MW)	Energy (GWh)	Year	Demand (MW)	Energy (GWh)
2010	292.0	1,470.9	2028	379.3	1,982.8
2011	296.8	1,499.3	2029	384.1	2,011.2
2012	301.7	1,527.8	2030	389.0	2,039.7
2013	306.5	1,556.2	2031	394.0	2,069.4
2014	311.4	1,584.6	2032	399.1	2,099.5
2015	316.2	1,613.1	2033	404.3	2,130.1
2016	321.1	1,641.5	2034	409.6	2,161.1
2017	325.9	1,670.0	2035	414.9	2,192.5
2018	330.8	1,698.4	2036	420.2	2,224.4
2019	335.6	1,726.8	2037	425.7	2,256.8
2020	340.5	1,755.3	2038	431.2	2,289.7
2021	345.3	1,783.7	2039	436.8	2,323.0
2022	350.2	1,812.2	2040	442.5	2,356.8
2023	355.0	1,840.6	2041	448.2	2,391.1
2024	359.9	1,869.0	2042	454.0	2,426.0
2025	364.7	1,897.5	2043	459.9	2,461.3
2026	369.6	1,925.9	2044	465.8	2,497.1
2027	374.4	1,954.4			

Table ES-1: RPU Demand and Energy Forecast

ES.4 BALANCE OF LOADS AND RESOURCES

RPU is responsible to meet the electrical energy needs of the citizens of Rochester, Minnesota and certain areas surrounding Rochester. The loads include general residential and commercial loads as is typical of large metro areas. Larger customers served by RPU include the various hospitals within Rochester, such as the Mayo Clinic, and a large IBM facility. RPU is also a member of the Southern Minnesota Municipal Power Agency (SMMPA) which provides RPU with a major portion of its energy requirements through a contract rate of delivery (CROD) agreement scheduled through 2030. In addition to CROD, RPU has a number of resources to meet its demand and energy requirements. These include a diverse mix of coal, gas, landfill gas and hydro-electric generating units. The units owned and operated by RPU are the following:

- Silver Lake Power Plant (Units 1-4)
- Cascade Creek (Units 1-2)
- Olmstead Waste-to-Energy Facility (OWEF)
- Lake Zumbro Hydro Plant

A balance of loads and resources (BLR) based on the load forecast and resources that RPU will have available to meet its obligations over the time period 2008 through 2040 and assuming the SMMPA CROD contract expires in 2030 is shown in Figures ES-1.





ES.5 SMMPA CONTRACT EXTENSION ANALYSIS

B&McD analyzed potential RPU futures with and without the SMMPA CROD extended beyond 2030 and its subsequent impact to RPU's capacity and energy needs and renewable energy requirements over a study period of 2025 through 2044. The various resource planning assumptions and scenarios were developed and analyzed using the popular resource planning software tool called Strategist.

To meet RPU's load requirements, a diverse mix of both baseload/intermediate and peaking type resources were available as potential new resources over the study period. When supply resources were not available or economical, a market capacity resource was used to maintain reserve margins throughout the study period. Market capacity resources were modeled as temporary supply resources, expiring at the end of each year. Table ES-2 shows the new resources and corresponding capacity levels populated in the

Strategist model as potential new resource alternatives for meeting RPU's future demand and energy requirements. Further operating and cost assumptions for the new resources can be found in Appendix A.

Resource Option	Min. Project Cap. (MW)	Capital Cost (2009\$/kW)	Earliest In- Service Yr	Fixed O&M (\$/kW-yr)	Var. O&M (\$/MWh)
Market Capacity	As Needed	-	2009	\$76.38	-
Wartsila Engine Sets	16.8	\$1,122	2013	\$8.32	\$8.42
FT8 TwinPac	50	\$1,351	2013	\$12.88	\$1.58
1 x 1 7EA NGCC	146	\$1,955	2014	\$21.22	\$5.04
1 x 1 7FA NGCC	330	\$1,318	2014	\$18.54	\$4.64
Wind	25	-	2011	-	\$70.00
Solar	5	\$4,000	2011	-	-
SLP 1-3 Biomass	40	\$2,275	2016	\$132.00	\$3.50

Table ES-2: New Resource Options Modeled

Note: All costs shown in 2009\$.

Four scenarios were developed to analyze the CROD extension decision and also the resulting impact on RPU's renewable portfolio standard (RPS) requirements based on a future with or without CROD. The four cases were developed in an attempt to bound the broadly different futures potentially present for RPU and analyze the economic benefits of each. The four cases and their high level constraints include:

- Case 1 RPU future with SMMPA CROD contract extended beyond 2030; RPS requirement of 25 percent renewable energy by 2025 not enforced.
- Case 2 RPU future with SMMPA CROD contract extended beyond 2030; RPS requirement of 25 percent renewable energy by 2025 enforced.
- Case 3 RPU future without SMMPA CROD contract beyond 2030; RPS requirement of 25 percent renewable energy by 2025 not enforced.
- Case 4 RPU future without SMMPA CROD contract beyond 2030; RPS requirement of 25 percent renewable energy by 2025 enforced.

Using all potential combinations of new resources available for selection that satisfy the scenario constraints, the Strategist model provided thousands of portfolio options, ranked by a net present value (NPV) cost. The option resulting in the lowest 20-year NPV cost for each case is shown in Table ES-3.

The lower NPV cost expansion plans generally picked a 1x1 7FA combined cycle facility to replace energy and capacity from the CROD starting in 2031. Aside from this resource decision, the model chose

a variety of smaller Wartsila engine sets or Wind over the study period in the lower cost expansion plans, with and without SMMPA. At the assumed carbon tax levels, it was shown that there was production cost benefits to adding renewable wind energy at the assumed pricing. Appendix B provides a more detailed breakdown of energy sources and costs for each of the cases summarized herein.

Table	ES-3:	Strategist	Lowest NPV	Scenario	Expansion	Plan	Summar	v
I able	E9-3.	Su alegist.		Scenario	Expansion	I lall	Summar	y

Year	Plan [.]	1-With	2-With SMMPA/	3-W/O	4-W/O SMMPA/
1041	1 Idini	SMMPA	Renewables	SMMPA	Renewables
2025		Wartsila(34)	Wartsila(17)	Market(2)	Wind(25)
			Wind (25)		
2026			Wartsila(17)	Market(7)	Market(3)
2027				Market(13)	Market(9)
2028		Wartsila(17)	Wind(25)	Market(18)	Market(15)
2029				Market(24)	Market(20)
2030		Wartsila(17)	Wartsila(17)	Market(29)	Market(26)
2031			Wind(25)	7FACC(330)	7FACC(330)
2032			Wind(25)		Wind(25)
2033		Wartsila(17)	Wartsila(17)		
2034					Wind(25)
2035			Wind(25)	Wartsila(17)	Wind(50)
2036		Wartsila(17)	Wartsila(17)		Wind(25)
2037			Wind(25)		Wind(50)
2038		Wartsila(17)		Wartsila(17)	Wind(50)
2039			Wartsila(17)		Wind(25)
			Wind(25)		
2040		Wartsila(17)		Wartsila(17)	
2041			Wind(25)		Wartsila(17)
2042			Wind(25)	Wartsila(17)	
2043		Wartsila(17)	Wartsila(17)		Wartsila(17)
2044			Wind(50)		
NPV (\$00	0)	\$3,836,070	\$3,387,527	\$2,960,876	\$2,818,040

ES.6 RENEWABLE ENERGY REQUIREMENTS ANALYSIS

RPU is located in the state of Minnesota, which currently has RPS legislation requiring utilities to meet a growing percentage of their energy needs through renewable resources with the ultimate goal of serving 25 percent of energy needs through renewable resources by 2025. Based on previous resource planning analysis and a higher load forecast, it was shown that adding up to 50 MW of wind could be beneficial to RPU and its customers. RPU further investigated this by issuing a request for proposals (RFP) for new wind projects. B&McD assisted RPU throughout the RFP process and evaluated the proposals to identify the more economically beneficial projects. Further information regarding the RFP process and evaluation can be found in Section 3 of this report.

Following the RFP and proposal evaluations, B&McD analyzed RPU's renewable energy requirements over the time period 2010 through 2030 through hourly production cost modeling analysis. The first step in the production cost analysis was to determine the appropriate amount of wind energy to evaluate based on RPU's RPS requirements over the study period. RPU currently generates some renewable energy through its Lake Zumbro hydro facility and OWEF landfill gas facility. RPU's renewable energy requirements over the study period were then calculated based on the updated load forecast and after accounting for existing renewable energy sources. Figure ES-2 shows a comparison of RPU's expected RPS energy requirements by year based on the initial load forecast used in the previous resource planning analyses, the requirements based on the updated load forecast from SMMPA discussed in Section 2, and the amount of existing renewable energy available to RPU from Lake Zumbro and OWEF. Based on this figure and current load forecast projections, RPU will not require any new renewable energy to satisfy Minnesota RPS requirements until approximately 2025.





Another factor to consider is the time of day when wind energy is typically available. Wind energy is predominantly available in the evening and off peak hours. Therefore, a majority of the wind energy over much of the study period would only be available to RPU during times when all energy requirements are

met by the SMMPA CROD. This would require RPU to sell the unused wind energy to the market at the prevailing market energy price. Therefore, the larger the project size, the more RPU would be reliant on market prices to recoup the wind contract energy cost. Based on the amount of renewable energy required over the study period and the potential market energy price risk, it was determined that over the short-term, any potential project for wind should be relatively small.

Based on the project size analysis, a 24 MW project proposed through the RFP process was evaluated in an hourly production cost model to determine the potential economic benefits. The proposed wind project was added to RPU's system starting in 2010 at the costs proposed and evaluated on an hourly basis against a case over the same time period which did not include the wind project. These cases were evaluated with and without a carbon tax. The carbon tax was assumed to start in 2012 and costs were assumed from the same basis as the contract extension analysis described in Section 2. The annual production cost between the cases with and without a carbon tax was compared to see if any economic benefit resulted from adding the wind resource in 2010.

Figure ES-3 shows the annual production cost delta with and without the addition of the wind project for the cases with and without an assumed carbon tax. In cases with and without a future carbon tax, the production cost delta between the case with wind subtracted from the case without wind resulted in a negative NPV. This indicated a negative economic impact of adding the wind project in 2010 under the pricing assumptions based on the RFP response. Appendix C provides a more detailed breakdown of energy sources and costs for each of the cases summarized herein.



Figure ES-3: Annual Production Cost Delta, Wind Case Minus No Wind Case



Based on current load projections, RPU does not have to add short-term resources (renewable or otherwise) unless they provide an economic benefit to RPU and its customers. RPU currently has an all-requirements CROD through SMMPA up to 216 MW, and RPU generally does not generate significant amounts of energy through its own resources except during peak load times. Because of this and the hourly generation profile of wind, the energy from wind cannot provide a significant portion of native load requirements to RPU until load grows significantly beyond its current point. This condition makes renewable energy generated over the peak hours a better fit to meet RPU native load over the duration of the CROD agreement. For this reason, solar projects may be a more compatible resource to fulfill any RPS requirements through the end of the CROD. Figure ES-4 shows a normalized curve of RPU's load compared against RPU's day ahead LMP in MISO and the output of both wind and fixed axis solar resources for RPU's peak month of July.



Figure ES-4: Normalized Load vs. Output of Wind and Solar Resources, July

ES.7 RESOURCE STRATEGY

Overall, RPU is in relatively good condition to meet its load requirements for several years without any additions to its resource mix. Challenges to RPU in the area of transmission reliability and adjusting to potential future market and regulatory risks are typical of the environment in which utilities operate today and should be a primary focus of RPU into the future. Plant related issues will include the decision of whether or not to continue investing in SLP for long-term operation. The following is a brief discussion of these and other issues to RPU's long range resource plan.

Regional Coal Plant Participation

In following the recommendations of the initial long range infrastructure plan, RPU initiated the study of an opportunity to participate in a regional coal-fired power plant. B&McD analyzed the terms of this project in the context of adding a 50 MW tranche in 2015 and studied the economic benefits through an hourly production cost analysis. This analysis found the project to be uneconomical to RPU through the time period considered.

Subsequent to the initial long range plan, additional environmental scrutiny has been focused on coalfired power plants, with nearly every new coal project challenged by environmental groups in court. As discussed previously in this study update, there is ongoing legislative debate as to how and if carbon emissions should have stricter regulation(s). One possible method for limiting carbon emissions is through a carbon tax or cap and trade. This potential regulatory cost makes the outlook for coal-fired power plants as a long-term economic power generator much less certain. Based on this regulatory risk and the development challenges that new coal-fired plants face, it is expected that RPU should look to add new generation, as necessary, through natural gas-fired or other more economical power generation means.

Load Forecast Impacts

As discussed throughout the various analyses summarized in this update study, RPU's load forecast was adjusted significantly from the initial forecast used in the 2005 Infrastructure Plan based on recent SMMPA projections. The adjusted forecast can be attributed to many factors including increased DSM programs and end-user efficiency. Therefore, it is inherently assumed in the forecast that the aggressive DSM reviewed in the initial Infrastructure Plan is capturing sufficient demand and energy to result in the SMMPA revised forecast. Figures ES-5 and ES-6 show a comparison of the initial and revised demand and energy forecasts, respectively.



Figure ES-5: Comparison of Previous and Current RPU Demand Forecast



Figure ES-6: Comparison of Previous and Current RPU Energy Forecast

Load forecast projections beyond 2030 were based on the average growth rate over the previous five years.

SMMPA Contract Extension

RPU is faced with determining whether or not to extend the current 216 MW CROD contract with SMMPA beyond 2030. B&McD analyzed RPU's potential future with and without the CROD extended beyond 2030 and its subsequent impact to RPU's capacity and energy needs and renewable energy requirements. Based on this analysis, it was found that a future without SMMPA would be more economically beneficial than extending the current CROD contract, even considering the additional renewable energy burden required without the SMMPA CROD. This is likely a function of many complex factors including but not limited to:

- CROD rates assumed in this study
- Carbon tax levels assumed in this study and RPU's exposure to coal-based energy through SMMPA
- Based on its size and load requirements, RPU would not be able to achieve economies of scale or efficient operations replacing CROD energy and capacity through a large coal-fired power plant, which would have greater capacity and energy than RPU alone would need

• RPU can utilize economies of scale and operating efficiencies replacing CROD energy and capacity with a large natural gas-fired resource that serves as a baseload resource in a carbon tax environment

Renewable Resource Development

Based on the analysis in this update study, RPU does not require additional renewable energy to meet current Minnesota RPS requirements until approximately 2025. Until that time, a majority of native load requirements above CROD levels occur during peak hours. Because of this constraint, wind, which generally has an output profile inverse to load requirements, is not a great fit for supplying renewable energy to RPU above CROD. It is expected that RPU would have to sell a significant amount of wind energy over the short-term into the open market, subjecting considerable market price risk to that energy.

If RPU wishes to pursue additional renewable energy projects prior to approximately the 2025 timeframe, it is expected that solar resources (or any resource that provides more energy during peak hours) would be a better fit to serve RPU native load requirements above CROD. This is based on the assumption that RPU native load requirements above CROD will occur during peak hours more often than not until the conclusion of the SMMPA CROD. The addition of any new renewable energy above Minnesota RPS requirements should still be subject to a production cost analysis to determine its suitability and economic benefit to RPU and its customers.

Suggested Long Range Planning Activities

The decision of whether or not to extend the CROD contract with SMMPA is currently the largest resource planning issue confronting RPU over the next 20 years. Based on Burns & McDonnell's understanding, RPU has determined not to renew the SMMPA contract. This indicates that the CROD will not be available to RPU past 2030.

Assuming aggressive DSM and increased energy efficiency as assumed in the forecast used in this analysis, RPU will not face capacity or energy deficits until approximately 2026. Planning for the CROD replacement will need to begin approximately eight to ten years prior to the end of the SMMPA contract due to the size of the resource. In addition, based on current load projections, RPU will need to start planning for the addition of its next resource two to three years prior to needing the capacity and energy. Also, based on the current load projections, additional renewable resources to meet Minnesota RPS requirements will not be required until approximately 2025. A summary activity chart showing the

timing of the previous activities as well as suggested periods to review the long range plan against current conditions is shown in Table ES-4.

Activity:	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Aggressive DSM																						
CROD Replacement Resource																						
Next Resource Based on Load Growth																						
Next Renewable Resource																						
Long Range Plan Review	X					Χ					Χ					Χ					Χ	

Table ES-4: Summary of Long Range Plan Development Activities

ES.8 CONCLUSIONS

Based on the analysis provided in this Update Study, Burns & McDonnell has developed the following conclusions and recommendations:

- 1. RPU has determined that the resource expansion should consider the CROD expiring in 2030.
- 2. The next resource that RPU will need to acquire is in the 2027 time frame. The resource identified is an engine based plant. The lead time for this type of plant is approximately three years from beginning of permitting to commercial operation. Therefore, RPU would need to begin the formal project to install this unit in 2024.
- RPU will need to begin planning for the expiration of the CROD in the 2020 to 2022 time frame. This will provide sufficient lead time for RPU to investigate the approaches to replacing the capacity and construct a resource should that be the selected approach.
- 4. Due to the CROD, the best renewable option that fits the RPU load curve is solar photovoltaic. Encouragement of installation of solar PV should be considered.
- 5. RPU should continue to pursue aggressive demand side management activities for both peak demand reduction and energy savings. Pursuit of time of use and dynamic pricing should be considered to provide incentives to the customer to reduce consumption.
- 6. RPU should continue to provide periodic updates to this plan. The main variable will be the success of the demand side management activities and the resultant load that has to be met. Should the load be greater than that assumed in the analysis, adjustments to the capacity requirements will be necessary.

SECTION 1.0 INTRODUCTION

1.0 INTRODUCTION

Burns & McDonnell Engineering Company (B&McD) was retained by Rochester Public Utilities (RPU) to perform an Update to the 2005-2030 Baseline Infrastructure Study (Study or Study Update) to evaluate and update as necessary the key findings and recommendations of the original long range strategy developed in 2005. This report provides information on the generation resource planning and other analyses undertaken to make updated decisions and recommendations on RPU's long term strategy.

1.1 STUDY OBJECTIVES

The updated analysis required to support the ongoing long term resource decisions is the subject of this report. The objective of this update was to analyze the power supply needs and regulatory requirements of RPU to the 2045 time frame in order to identify any longer term issues which could impact shorter term decisions. The major regulatory and power supply resource issues which confront RPU include:

- The long range development of power supply resources in anticipation of a contract extension or termination with SMMPA in 2030
- The development of renewable resources to meet Minnesota requirements
- The benefit of the Silver Lake power plant as a long term resource
- The examination of DSM impacts to RPU's long range resource plan

1.2 STUDY BACKGROUND

The Infrastructure Study prepared for RPU in 2005 included several supply and demand side activities which RPU could pursue. These activities included emission control programs for the Silver Lake Plant, demand side management activities and consideration to acquire additional renewable energy. As an ongoing activity, RPU is reviewing ways to obtain power supply that would reduce its operating costs and, therefore, the rates to its customers.

RPU has initiated the emission control program for the Silver Lake Plant. Financing has been secured and the project has moved into the construction phase. Ongoing progress for the plant can be monitored through the RPU website.

RPU is also actively engaged in discussing transmission expansion in the vicinity. Upgrades to the 161kV transmission system have been proposed. These improvements will help alleviate current

transmission constraints in the area, which will benefit RPU. It is expected that these transmission improvements will be in service in [2014].

RPU has continued to aggressively pursue demand side measures that allow customers to reduce their energy consumption. The programs include numerous appliance efficiency upgrades, lighting change out and direct load control programs. Information provided by RPU indicates that approximately 3.6MW has been removed from the system.

1.3 STUDY METHODOLOGY

The analysis of power supply options and issues associated with the SMMPA contract extension required the projection of RPU's demand and energy over the study period. The forecast for the energy and demand was provided by RPU. The forecast was used as the basis for determining when additional resources would be needed to maintain the capacity reserve margins required by the Midwest Independent Transmission System Operator (MISO) and North American Electric Reliability Corporation (NERC).

The analysis of power supply options was performed using the Strategist resource expansion program. This program analyzes the capacity and energy needs of a utility and adds resources from options provided to the program. Various assumptions were developed for such things as capital costs, fixed operations and maintenance costs, fuel supply and variable operating costs of potential new resources. In addition, Burns & McDonnell developed assumptions for market costs at the SMP.RPU MISO node. The time frame for the updated resource analysis was from 2010 to 2045.

For the review of wind and long term renewable energy requirements, a request for proposals was prepared and issued for response. The responses were evaluated and compared against the ability for RPU to make use of the energy. An hourly production cost model was used to analyze the costs and benefits of the wind energy.

The estimates and projections contained in this report are based on Burns & McDonnell's experience, qualifications and judgment as a professional consultant and reflect screening level assumptions about the facilities represented and are not site specific. While the estimates are considered suitable for use in production cost modeling analyses to select preferable resource options to pursue, Burns & McDonnell has no control over the numerous factors affecting actual costs should any of the facilities included herein be pursued. Therefore, Burns & McDonnell does not guarantee that actual values realized over time will

not vary from the estimates and projections prepared by Burns & McDonnell for purposes of this planning study.

1.4 ORGANIZATION OF REPORT

This report is organized into several separate chapters and supporting appendices. These individual sections are listed below along with a brief description of their contents.

- Executive Summary: An executive summary of the 2009 Infrastructure Update.
- Section 1.0 Introduction: A description of the Study's objectives and methodology.
- Section 2.0 Review of SMMPA CROD Extension: Includes the analysis of various futures associated with extending the CROD past 2030.
- Section 3.0 Review of Renewable Energy Requirements: Provides a description of the RFP for wind energy and a renewable energy requirements evaluation.
- Section 4.0 Resource Strategy provides a resource expansion plan for RPU based on the renewable and CROD analysis.

SECTION 2.0 SMMPA CONTRACT EXTENSION ANALYSIS

2.0 SMMPA CONTRACT EXTENSION ANALYSIS

This part of the report addresses the various resource planning assumptions and scenarios that were developed and analyzed using Ventyx's Strategist software to study the decision of whether or not to extend the existing SMMPA Contract Rate of Delivery (CROD) past 2030. The Strategist model is a resource portfolio optimization model that allows an analysis of several different resources with a variety of characteristics to meet the load requirements and any other defined constraints over a finite period of time. The model develops potentially thousands of resource combinations based on the scenario-defined constraints, ranking these combinations by net present value (NPV) over the study period. This allows the selection of the lowest cost combination of resources, including optimal size and implementation schedules for new resources, based on the performance and construction costs provided. Four scenarios were developed to analyze the CROD extension decision and also the resulting impact on RPU's RPS requirements based on a future with or without CROD.

2.1 SCENARIO BACKGROUND & ASSUMPTIONS

The following is a discussion of the assumptions developed to analyze the future resource requirements of RPU with and without CROD.

2.1.1 General Assumptions

The analysis began with the development of the baseline assumptions and constraints as applicable for RPU. The following general assumptions are applicable to the analysis:

- The study period covers the years 2025 through 2044.
- Except where noted otherwise, all assumptions were escalated in real dollar terms based on 2009\$.
- RPU must maintain capacity reserves of 15 percent above peak load (net of CROD) throughout the study period.
- In scenarios where CROD is not continued, the contract terminates December 31, 2030. In scenarios where CROD is continued, the contract continues at 216 MW and its other current terms through the study period.
- No RPU resources are retired throughout the study period.
- The hourly load shape provided by RPU for the 2006 calendar year was used as the basis for the study load shape adjusted based on future load growth projections.

- Future load growth projections were based on recent estimates from SMMPA.
- The discount rate for RPU for financing terms was 6.0 percent, with longer term resources financed over 30 years, and shorter term resources financed over 20 years.

2.1.2 Load Forecast

The load forecast was based on linear growth of a recent SMMPA projection for RPU demand and energy requirements in 2030, which reflect increased DSM and end-user efficiency. The historical load for 2006 was provided on an hourly basis by RPU and used as a starting load shape, modified based on future load growth projections. The forecast is summarized on an annual basis over the study period in Table 2-1.

	Demand (MW)	Energy (GWh)
2025	364.7	1,897.5
2026	369.6	1,925.9
2027	374.4	1,954.4
2028	379.3	1,982.8
2029	384.1	2,011.2
2030	389.0	2,039.7
2031	394.0	2,069.4
2032	399.1	2,099.5
2033	404.3	2,130.1
2034	409.6	2,161.1
2035	414.9	2,192.5
2036	420.2	2,224.4
2037	425.7	2,256.8
2038	431.2	2,289.7
2039	436.8	2,323.0
2040	442.5	2,356.8
2041	448.2	2,391.1
2042	454.0	2,426.0
2043	459.9	2,461.3
2044	465.8	2,497.1

Table 2-1: RPU Demand and Energy Forecast

2.1.3 RPU Resources

RPU has a number of resources to meet its demand and energy requirements. These include a diverse mix of coal, gas, landfill gas and hydro-electric generating units. RPU also has a significant amount of energy provided under its contract with SMMPA, which currently runs through 2030. The units owned and operated by RPU are the following:

- Silver Lake Power Plant (Units 1-4)
- Cascade Creek (Units 1-2)
- Olmstead Waste-to-Energy Facility (OWEF)
- Lake Zumbro Hydro Plant

A balance of loads and resources (BLR) based on the load forecast and resources that RPU will have available to meet its obligations with and without SMMPA are shown in Figures 2-1 and 2-2, respectively.



Figure 2-1: RPU Balance of Loads and Resources with SMMPA



Figure 2-2: RPU Balance of Loads and Resources without SMMPA

As shown in the previous figures, with or without SMMPA, RPU does not become resource deficit until approximately 2026. However, depending on whether or not RPU continues the SMMPA CROD will have a significant impact on future resource requirements past 2030. High level assumptions about the units and their operating parameters can be found in Appendix A.

2.1.4 New Resources

The capacity and energy needs of RPU are projected to potentially increase substantially over the study period. To meet these needs a diverse mix of both baseload/intermediate and peaking type resources were available as potential new resources over the study period. When supply resources were not available or economical, a market capacity resource was used to maintain reserve margins throughout the study period. Market capacity resources are modeled as temporary supply resources, expiring at the end of each year. Table 2-2 summarizes the new resource and corresponding capacity levels populated in the Strategist model as potential new resource alternatives for meeting RPU's future demand and energy requirements. Further operating and cost assumptions for the new resources can be found in Appendix A.

Resource Option	Min. Project Cap. (MW)	Capital Cost (2009\$/kW)	Earliest In- Service Yr	Fixed O&M (\$/kW-yr)	Var. O&M (\$/MWh)
Market Capacity	As Needed	-	2009	\$76.38	-
Wartsila Engine Sets	16.8	\$1,122	2013	\$8.32	\$8.42
FT8 TwinPac	50	\$1,351	2013	\$12.88	\$1.58
1 x 1 7EA NGCC	146	\$1,955	2014	\$21.22	\$5.04
1 x 1 7FA NGCC	330	\$1,318	2014	\$18.54	\$4.64
Wind	25	-	2011	-	\$70.00
Solar	5	\$4,000	2011	-	-
SLP 1-3 Biomass	40	\$2,275	2016	\$132.00	\$3.50

Table 2-2: New Resource O	ptions Modeled
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Note: All costs shown in 2009\$.

2.2 FUEL CONSIDERATIONS/FORECASTS

Most of the generating resources considered in the analysis require an associated fuel for power generation. The analysis utilized gas, coal, biomass, and spot market pricing to help determine production costs for each of the various supply alternatives considered. The following paragraphs discuss each of the various fuel forecasts used in this analysis.

2.2.1 Coal and Biomass

For the SLP 1-3 repower project, it was assumed that the new facility would burn a ratio of 50/50 coal and biomass fuel. Since SLP is a coal-fired facility, coal is already delivered to the site and it was assumed that the same source would be used for coal in the repowered facility. The coal delivered to SLP was assumed to cost \$3.60/MMBtu in 2008 dollars, subject to 3 percent annual real escalation after 2008. The biomass fuel delivered to SLP was assumed to cost \$2.27/MMBtu in 2008 dollars, subject to 3 percent annual real escalation after 2008.

2.2.2 Natural Gas

Natural gas has seen severe price fluctuations over the past decade due to supply and demand issues, natural disasters such as Hurricane Katrina, and increasing geopolitical tensions. For a base natural gas price forecast, the Study relied on the Energy Information Administration's (EIA) annually published long-term natural gas forecast for electric power producers. This annual forecast is published in real dollars by the U.S. Department of Energy and runs through 2030. The EIA short-term forecast for natural gas at Henry Hub was blended with the long-term EIA to raise the long-term forecast to a starting point more reflective of today's prices. Applying the average real dollar escalation rate to prices past 2030, the

study forecast is shown in Figure 2-3. This forecast was used as the base natural gas price for all resource alternatives that required the use of natural gas as a fuel. The volatility of natural gas will lead to certain years having low pricing and some years having high prices due to supply and demand impacts around the world. The current market price for natural gas is lower than forecast due to these conditions.





2.2.3 Market Energy Prices

The spot market energy price forecast was developed using the hourly day-ahead LMP pricing of the SMP.RPU node in MISO from January through December 2008. On-peak energy prices for 2009 and beyond were projected using the same underlying annual escalation as the EIA natural gas forecast and off-peak energy prices were projected using the same underlying annual real escalation as coal throughout the study period.

2.3 CARBON TAX ASSUMPTIONS

Significant debate on the approach to legislating carbon emissions is ongoing in state and federal governments. The two major approaches considered for limiting electric utility emissions are a carbon tax or a cap and trade system, similar to the method used to control sulfur dioxide. This Study has used a carbon tax as a proxy to capture the expected cost impacts of carbon legislation on fossil fuel fired

resources. The tax rate, by year, applied to all carbon emissions over the study period is shown in nominal dollars in Table 2-3.

Year	CO₂ Tax
2025	\$48.00
2026	\$50.00
2027	\$53.00
2028	\$56.00
2029	\$59.00
2030	\$61.00
2031	\$63.00
2032	\$66.00
2033	\$69.00
2034	\$72.00
2035	\$74.00
2036	\$77.00
2037	\$80.00
2038	\$84.00
2039	\$89.00
2040	\$93.00
2041	\$98.00
2042	\$103.00
2043	\$108.00
2044	\$113.00

Table 2-3: Annual Carbon Tax Rate, \$/Ton

Because of the carbon tax, it was assumed that the spot market price of electric energy would also increase to account for the increase in the cost of generation across the market. A \$1/ton CO₂ tax roughly translates into a \$1/MWh increase in the cost of generation for a coal-fired resource. Therefore, it is reasonable to expect that the typical off-peak market energy, which is predominantly priced at the margin by baseload, coal-fired resources, would see the market price of energy increase at a rate (\$/MWh) equal to the carbon tax (\$/ton) level. Natural gas-fired resources typically have CO₂ emissions rates that are half as much as coal-fired resources and predominantly make up the market energy provided during peak hours. Therefore, market energy during peak hours was increased at half the price of the carbon tax. For example, in 2025, off-peak market prices were increased by \$48/MWh, and on-peak market prices were increased by \$24/MWh. Over the study period, the spread in on and off-peak pricing eventually narrowed and was eliminated. Figure 2-4 shows the relationship between on and off-peak pricing in select months in different years of the study period.



Figure 2-4: Monthly On/Off-Peak Price Relationship Over Time

CROD energy was also included in the consideration of carbon tax costs assuming the energy supplied to RPU consisted of approximately 75 percent coal energy and 25 percent renewable energy. In this way, 75 percent of the MWh's supplied by CROD were subjected to the corresponding \$/ton carbon tax rate in each year the energy was provided.

2.4 PRODUCTION COST RESULTS

Using the assumptions described previously in this Section, four different scenarios were developed for the SMMPA contract extension analysis in Strategist. The four cases were developed in an attempt to bound the broadly different futures potentially present for RPU and analyze the economic benefits of each. The four cases and their high level constraints include:

- Case 1 RPU future with SMMPA CROD contract extended beyond 2030; RPS requirement of 25 percent renewable energy by 2025 not enforced.
- Case 2 RPU future with SMMPA CROD contract extended beyond 2030; RPS requirement of 25 percent renewable energy by 2025 enforced.
- Case 3 RPU future without SMMPA CROD contract beyond 2030; RPS requirement of 25 percent renewable energy by 2025 not enforced.

Case 4 – RPU future without SMMPA CROD contract beyond 2030; RPS requirement of 25 percent renewable energy by 2025 enforced.

Using all potential combinations of new resources available for selection that satisfy the scenario constraints, the model provides thousands of portfolio options, ranked by a net present value (NPV) cost. The option resulting in the lowest 20-year NPV cost for each case is shown in Table 2-4.

At a high level in the lower NPV cost expansion plans, the model consistently picks a 1x1 7FA combined cycle facility to replace energy and capacity from the CROD starting in 2031. Aside from this resource decision, the model picks a variety of smaller Wartsila engine sets or Wind over the study period in the lower cost expansion plans, with and without SMMPA. At the assumed carbon tax levels, it was shown that there was production cost benefit to adding renewable energy at the assumed pricing. Appendix B provides a more detailed breakdown of energy sources and costs for each of the cases summarized herein.

Veen	Diam	1-With	2-With SMMPA/	3-W/O	4-W/O SMMPA/
rear	Plan:	SMMPA	Renewables	SMMPA	Renewables
2025		Wartsila(34)	Wartsila(17)	Market(2)	Wind(25)
			Wind (25)		
2026			Wartsila(17)	Market(7)	Market(3)
2027				Market(13)	Market(9)
2028		Wartsila(17)	Wind(25)	Market(18)	Market(15)
2029				Market(24)	Market(20)
2030		Wartsila(17)	Wartsila(17)	Market(29)	Market(26)
2031			Wind(25)	7FACC(330)	7FACC(330)
2032			Wind(25)		Wind(25)
2033		Wartsila(17)	Wartsila(17)		
2034					Wind(25)
2035			Wind(25)	Wartsila(17)	Wind(50)
2036		Wartsila(17)	Wartsila(17)		Wind(25)
2037			Wind(25)		Wind(50)
2038		Wartsila(17)		Wartsila(17)	Wind(50)
2039			Wartsila(17)		Wind(25)
			Wind(25)		
2040		Wartsila(17)		Wartsila(17)	
2041			Wind(25)		Wartsila(17)
2042			Wind(25)	Wartsila(17)	
2043		Wartsila(17)	Wartsila(17)		Wartsila(17)
2044			Wind(50)		
NPV (\$00	0)	\$3,836,070	\$3,387,527	\$2,960,876	\$2,818,040

Table 2-4: Strategist Lowest NPV Scenario Expansion Plan Summary
2.5 CONCLUSIONS

Based on the analysis provided above on various futures that could be pursued by RPU associated with the SMMPA contract extension, Burns & McDonnell has developed the following conclusions.

With SMMPA

- 7. The majority of the energy provided by SMMPA will be exposed to carbon legislation and coal pricing due its sourcing from the SMMPA share of Sherco Unit 3.
- 8. The Sherco facility will be approximately 50 years old in 2030. This will place the majority of the energy provided by SMMPA from an aged resource that will likely require significant life extension upgrades to sustain efficient operations.
- 9. RPU will have little ability to influence SMMPA directions and costs for the length of the contract beyond what it has been able to do in the past.
- 10. RPU is responsible to share in upgrades or replacement of Sherco and other resources SMMPA may pursue which is an off balance sheet debt of RPU.
- 11. The trajectory of carbon cap and trade legislation being debated in Congress will try to force retirement of coal plants. If this occurs, and Sherco Unit 3 is retired, this will require a major investment in a replacement resource(s) or change in cost structure for SMMPA.
- 12. The resource options available to RPU would not benefit significantly from economies of scale unless opportunities arose for clean coal or nuclear plant construction. There would be no advantage over market opportunities.

Without SMMPA

- RPU will be operating with over half of its capacity from a new resource(s) in 2031 to replace the CROD. This provides an opportunity to obtain this capacity from multiple sources.
- 14. With or without SMMPA, the retirement of SLP is a consideration as it continues to age. Although the capacity would be more important if the CROD has to be replaced, ongoing investment in the units will be necessary. The development of biomass fuels may provide an opportunity to consider conversion of SLP to burn biomass, which would reduce its exposure to carbon legislation costs.
- Replacing the CROD will require investments in new capacity and additional resource planning by RPU. This future would place all decisions associated with investments under direct management by RPU.

- 16. RPU would have the opportunity to partner with other utilities on a project by project basis. These opportunities could gain potential economies of scale when compared to projects that RPU would pursue alone.
- 17. The requirement for RPU to replace the CROD energy would provide the ability for RPU to take advantage of new technology and to move away from carbon fuels.
- 18. The replacement of the CROD will require that RPU provide an increased amount of renewable energy to meet the current Minnesota RPS.

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SECTION 3.0

RENEWABLE ENERGY REQUIREMENTS ANALYSIS

3.0 RENEWABLE ENERGY REQUIREMENTS ANALYSIS

RPU is located in the state of Minnesota, which currently has RPS legislation requiring utilities to meet a certain percentage of their energy needs through renewable resources. The following Section describes the gathering of potential renewable energy project proposals and evaluating them in the context of RPU's projected renewable energy needs over the time period 2010 through 2030.

3.1 RFP SUMMARY

The following paragraphs provide a summary of the process and results of RPU's Request for Proposal (RFP) for up to 100 MW of wind resources and to transmit information about the RFP results to RPU. B&McD worked with RPU to develop the RFP and RFP parameters which included:

- The Purpose of Request for Proposals
- Instructions to Bidders
- Proposal Organization
- Proposal Content
- Proposal Evaluation and Contract Negotiations

Once the RFP was developed, the following tasks were undertaken in such a manner that the entire RFP process and evaluation were unbiased and met the criteria of the Edgar standards.

- Issuing the RFP
- Bids Received
- Evaluation of Bids
- Short List of Bidders
- Final Evaluation

3.1.1 Issuing the RFP

The RFP shown in Appendix D was issued for bid on September 22, 2008 with bids due on November 14, 2008. The RFP was directly emailed to a comprehensive list of power marketers, utilities and renewable developers who would possibly have an interest. Attached in Appendix E is the list of directly emailed recipients.

Burns & McDonnell created a web site specifically for this RFP with the name www.RPUWindRFP.com. The web site used for the RFP included:

- A link to download the entire RFP and exhibits
- A link to ask questions
- Answers to questions from bidders
- Links to Burns & McDonnell and RPU's company web sites

In addition to the directly emailed RFPs, advertising was placed in MegaWatt Daily for five days during the week of September 22, 2008. The advertising from MegaWatt Daily is shown in Appendix F. The ad directed interested parties to visit the web site listed to download a copy of the RFP.

Burns & McDonnell was the exclusive contact for all bidder correspondence related to this RFP, and there was no other contact with RPU representatives concerning this RFP. Burns & McDonnell set-up an e-mail address to collect all communication from potential bidders as well as to provide uniform communication including updates and specific detail as necessary from time to time through this bidding process. Questions addressed during the process were collected in the web site. Answers to questions from bidders were developed by Burns & McDonnell for review by RPU.

The following is a list of companies that submitted PPA proposals:

<u>Company</u>	Project Name	Company	Project Name
Acciona	Bitterfoot	Just Wind	Just Wind
Acciona	Tatanka	National Wind	North Star
Avant Energy/MMPA	Oak Glen	National Wind	Goodhue Wind
Avant Energy/MMPA	Shell Rock	National Wind	Root River
Avant Energy/MMPA	200 MW	National Wind	High Country
Clipper Windpower	Aurora	National Wind	Lake Country
enXco	Lakefield	Nature Energies	Eyota-Viola
Getty Wind	Getty Wind	Nature Energies	Triple Creek
Horizon	Pioneer Prairie II	RES	Pleasant Valley
Iberdrola Renewables	Buffalo Ridge II	Scheinder Power	Hilltop
Iberdrola Renewables	Barton Wind	Geronimo –S. Fork	South Fork
Iberdrola Renewables	Rugby Wind	Geronimo -Albany	Albany
Invenergy	Hurricane lake	Geronimo -Goodhue	Goodhue Wind

The following companies submitted ownership proposals:

<u>Company</u>	Project Name	<u>Company</u>	Project Name
Avant Energy/MMPA	Oak Glen	Just Wind	Logan County
Avant Energy/MMPA	Shell Rock	RES	Pleasant Vally
Avant Energy/MMPA	200 MW	Scheinder Pow	ver Hilltop
Clipper Windpower	Aurora		

The projects were in various stages of development and located in several states including Minnesota, Iowa, North Dakota, and South Dakota. The proposals had various levels of MW, start dates, capacity factors, escalation rates, pricing, term lengths, MISO CPNodes and load profiles.

3.1.2 RFP Response Evaluation

The evaluation of the proposals was based on the following key inputs:

- MW
- Start Date
- Location
- Pricing
- Escalation Rate(s)
- Term
- Load Profile
- Forecasted MISO Prices

Based on the above key inputs, the following short list of bidders was selected.

- Nature Energies -Eyota Viola
- Nature Energies -Triple Creek
- National Wind: Goodhue
- National Wind: High Country
- RES PPA
- Horizon Pioneer Prairie: -12 years
- Clipper PPA
- Geronimo -South Fork
- Geronimo -Albany

• Geronimo -Goodhue

For each bidder, an estimated \$/MWh levelized power cost over the term of the bid was developed based on their price, escalation, term, MW, capacity factor and start date. The levelized power cost is the net present value of the estimated \$/MWh power cost for each year over the term of the proposal. The NPV of the total cost and NPV of the total benefit of each proposal were also developed. These were then combined to determine the Net NPV of each project. During the evaluation phase bidders were given the opportunity to refresh their prices and modify their proposals to supply a lower amount of MWs if possible. Table 3-1 shows the results of the evaluation analysis.

	Levelized			
PPA Bidder	2009 \$/MWh	Raw NPV Cost	Raw NPV Benefit	Net NPV
Horizon Pioneer Prairie II -12 years	\$70.00	\$79,354,955	\$61,044,806	(\$18,310,150)
Clipper PPA	\$72.37	\$104,022,109	\$84,713,465	(\$19,308,645)
Nature Energies -Viola	\$66.74	\$43,004,786	\$37,459,428	(\$5,545,358)
Nature Energies Triple Creek	\$66.74	\$91,385,170	\$79,601,285	(\$11,783,885)
REVISED Nature Energies -Viola	\$66.71	\$43,620,287	\$37,459,428	(\$6,160,859)
REVISED Nature Energies Triple Creek	\$66.71	\$92,693,110	\$79,601,285	(\$13,091,825)
Goodhue GE Turbines	\$67.40	\$71,927,402	\$63,343,383	(\$8,584,019)
Goodhue SW Turbines	\$67.40	\$69,037,347	\$60,798,236	(\$8,239,111)
RES PPA	\$64.76	\$158,624,577	\$137,743,331	(\$20,881,246)
Geronimo -South Fork	\$63.75	\$42,060,594	\$37,381,290	(\$4,679,305)
Geronimo -Albany	\$66.60	\$105,639,380	\$88,854,919	(\$16,784,460)
Geronimo -Goodhue	\$63.43	\$109,232,072	\$95,283,670	(\$13,948,402)

Table 3-1: Wind RFP Response Evaluation NPV Results

Based on these results, the two bids with the highest Net NPV's were Nature Energies –Viola and Geronimo –South Fork. The above results were used in the production cost analysis by Burns & McDonnell to evaluate the wind alternative integrated into the balance of the RPU resource mix.

3.2 PRODUCTION COST ANALYSES

As previously described, a request for proposals (RFP) for wind projects was performed to determine the market pricing and availability for wind projects near RPU. The next step after gathering and summarizing the proposal responses was to analyze the more competitive responses in combination with RPU's system operations to determine the economic outlook of a potential wind project. This was done using Ventyx's PROMOD IV hourly production cost modeling software. The production cost modeling analysis was performed over the period 2010 through 2030 and used the same load forecast as that used in

the contract extension analysis. The various steps of the production cost analyses are discussed in the following paragraphs.

3.2.1 Project Size Analysis

The first step in the production cost analysis was to determine the appropriate amount of wind energy to evaluate based on RPU's RPS requirements over the study period. RPU currently generates some renewable energy through its Lake Zumbro hydro facility and OWEF landfill gas facility. RPU's renewable energy requirements over the study period were then calculated based on the updated load forecast which incorporates aggressive DSM and increased system efficiencies and after accounting for existing renewable energy sources. Figure 3-1 shows a comparison of RPU's expected RPS energy requirements by year based on the initial load forecast used in previous renewable energy analyses, the requirements based on the updated load forecast from SMMPA discussed in Section 2, and the amount of existing renewable energy available to RPU from Lake Zumbro and OWEF. Based on this figure and current load forecast projections, RPU will not require any new renewable energy to satisfy Minnesota RPS requirements until approximately 2025.





Another factor to consider is the time during the day when wind energy is typically available. Wind energy is predominately available in the evening and off peak hours. Therefore, a majority of the wind energy over much of the study period would only be available to RPU during times when all energy requirements are met by the SMMPA CROD. This would require RPU to sell the unused wind energy to the market at the prevailing market energy price. Therefore, the larger the project size, the more RPU would be reliant on market prices to recoup the wind contract energy cost.

Figure 3-2 shows recent historical market energy price duration curves for the first four months of the year over the period 2007 through 2009. For a risk assessment, this figure should be looked at in context of the contract energy price of potential wind energy compared against the potential market price for selling that energy back into the market. This shows a potentially high risk of selling back a high portion of wind energy to the market at a loss. Based on the amount of renewable energy required over the study period and the potential market energy price risk, it was determined that over the short-term, any potential project for wind should be relatively small.





As seen from the above figure, market prices have declined substantially in 2009 from previous levels.

3.2.2 Wind Project Production Cost Analysis

Based on the project size analysis, a 24 MW project proposed through the RFP process was evaluated in an hourly production cost model to determine the potential economic benefits. The proposed wind project was added to RPU's system starting in 2010 at the costs proposed and evaluated on an hourly basis against a case over the same time period which did not include the wind project. These cases were evaluated with and without a carbon tax. The carbon tax was assumed to start in 2012 and costs were assumed from the same basis as the contract extension analysis described in the previous Section. The annual production cost between the cases with and without a carbon tax was compared to see if any economic benefit resulted from adding the wind resource in 2010.

Figure 3-3 shows the annual production cost delta with and without the addition of the wind project for the cases with and without an assumed carbon tax. In cases with and without a future carbon tax, the production cost delta between the case with wind subtracted from the case without wind resulted in a negative NPV. This indicated a negative economic impact of adding the wind project in 2010 under the pricing assumptions based on the RFP response. Appendix C provides a more detailed breakdown of energy sources and costs for each of the cases summarized herein.



Figure 3-3: Annual Production Cost Delta, Wind Case Minus No Wind Case

3.3 SOLAR ENERGY CONSIDERATIONS

As discussed previously, based on current load projections, RPU does not have to add short-term resources (renewable or otherwise) unless they provide an economic benefit to RPU and its customers. RPU currently has an all-requirements CROD through SMMPA up to 216 MW, and RPU generally does not generate significant amounts of energy through its own resources except during peak load times. Because of this and the hourly generation profile of wind, the energy from wind cannot provide a significant portion of native load requirements to RPU until load grows significantly beyond its current point. This condition makes renewable energy generated over the peak hours a better fit to meet RPU native load over the duration of the CROD agreement. For this reason, solar projects may be a more compatible resource to fulfill any RPS requirements through the end of the CROD. Figures 3-4 through 3-7 show a normalized curve of RPU's load compared against RPU's day ahead LMP in MISO and the output of both wind and fixed axis solar resources for the months of January, April, July, and October, respectively.



Figure 3-4: Normalized Load vs. Output of Wind and Solar Resources, Jan.







Figure 3-6: Normalized Load vs. Output of Wind and Solar Resources, July





3.4 CONCLUSIONS

Based on the analysis provided above on the acquisition of new renewable energy in the short-term, Burns & McDonnell has developed the following conclusions.

- 1. Projected energy above CROD with lower forecast and current renewable energy expected to be available from Zumbro Hydro and OWEF does not show RPS energy deficit until about 2025.
- 2. With CROD and wind profile, significant amount of wind energy is unused by RPU and sold into MISO market at hourly LMP.
- 3. Based on hourly production cost analysis and current market conditions, significant amounts of new wind energy would be sold back to market at a loss in the short-term. Higher market prices, whether through a new carbon tax or other means, will improve economics of wind project as analyzed in this update, however not necessarily make it economically worthwhile.
- 4. RPU should not pursue wind at the current time, but continue to monitor market conditions to determine when beneficial economics exist.
- 5. If RPU considers providing renewable energy programs for its customers beyond that required in the RPS, then solar energy may be an option to consider. Due to the CROD, solar energy more closely matches the RPU requirements.

* * * * *

SECTION 4.0 RESOURCE STRATEGY

4.0 RESOURCE STRATEGY

Overall, RPU is in relatively good condition to meet its load requirements for several years without any additions to its resource mix. Challenges to RPU in the area of transmission reliability and adjusting to potential future market and regulatory risks are typical of the environment in which utilities operate today and should be a primary focus of RPU into the future. Plant related issues will include the decision of whether or not to continue investing in SLP for long-term operation. A discussion of these and other issues to RPU's long range resource plan are provided in this Section.

4.1 REGIONAL COAL PLANT PARTICIPATION

In following the recommendations of the initial long range infrastructure plan, RPU initiated the study of an opportunity to participate in a regional coal-fired power plant. B&McD analyzed the terms of this project in the context of adding a 50 MW tranche in 2015 and studied the economic benefits through an hourly production cost analysis. This analysis found the project to be uneconomical to RPU through the time period considered.

Subsequent to the initial long range plan, additional environmental scrutiny has been focused on coalfired power plants, with nearly every new coal project challenged by environmental groups in court. As discussed previously in this study update, there is ongoing legislative debate as to how and if carbon emissions should have stricter regulation(s). One possible method for limiting carbon emissions is through a carbon tax or cap and trade. This potential regulatory cost makes the outlook for coal-fired power plants as a long-term economic power generator much less certain. Based on this regulatory risk and the development challenges that new coal-fired plants face, it is expected that RPU should look to add new generation, as necessary, through natural gas-fired or other more economical power generation means.

4.2 LOAD FORECAST IMPACTS

As discussed throughout the various analyses summarized in this update study, RPU's load forecast was adjusted significantly from the initial forecast used in the 2005 Infrastructure Plan based on recent SMMPA projections. The adjusted forecast can be attributed to many factors including increased DSM programs and end-user efficiency. Therefore, it is inherently assumed in the forecast that the aggressive DSM reviewed in the initial Infrastructure Plan is capturing sufficient demand and energy to result in the

SMMPA revised forecast. Figures 4-1 and 4-2 show a comparison of the initial and revised demand and energy forecasts, respectively.



Figure 4-1: Comparison of Previous and Current RPU Demand Forecast



Figure 4-2: Comparison of Previous and Current RPU Energy Forecast

Load forecast projections beyond 2030 were based on the average growth rate over the previous five years.

4.3 SMMPA CONTRACT EXTENSION

RPU is faced with determining whether or not to extend the current 216 MW CROD contract with SMMPA beyond 2030. B&McD analyzed RPU's potential future with and without the CROD extended beyond 2030 and its subsequent impact to RPU's capacity and energy needs and renewable energy requirements. Based on this analysis, it was found that a future without SMMPA would be more economically beneficial than extending the current CROD contract, even considering the additional renewable energy burden required without the SMMPA CROD. This is likely a function of many complex factors including but not limited to:

- CROD rates assumed in this study
- Carbon tax levels assumed in this study and RPU's exposure to coal-based energy through SMMPA
- Based on its size and load requirements, RPU would not be able to achieve economies of scale or efficient operations replacing CROD energy and capacity through a large coal-fired power plant, which would have greater capacity and energy than RPU alone would need
- RPU can utilize economies of scale and operating efficiencies replacing CROD energy and capacity with a large natural gas-fired resource that serves as a baseload resource in a carbon tax environment

4.4 RENEWABLE RESOURCE DEVELOPMENT

Based on the analysis in this update study, RPU does not require additional renewable energy to meet current Minnesota RPS requirements until approximately 2025. Until that time, a majority of native load requirements above CROD levels occur during peak hours. Because of this constraint, wind, which generally has an output profile inverse to load requirements, is not a great fit for supplying renewable energy to RPU above CROD. It is expected that RPU would have to sell a significant amount of wind energy over the short-term into the open market, subjecting considerable market price risk to that energy.

If RPU wishes to pursue additional renewable energy projects prior to approximately the 2025 timeframe, it is expected that solar resources (or any resource that provides more energy during peak hours) would be a better fit to serve RPU native load requirements above CROD. This is based on the assumption that RPU native load requirements above CROD will occur during peak hours more often than not until the

conclusion of the SMMPA CROD. The addition of any new renewable energy above Minnesota RPS requirements should still be subject to a production cost analysis to determine its suitability and economic benefit to RPU and its customers.

4.5 SUGGESTED LONG RANGE PLANNING ACTIVITIES

The decision of whether or not to extend the CROD contract with SMMPA is currently the largest resource planning issue confronting RPU over the next 20 years. Based on Burns & McDonnell's understanding, RPU has determined not to renew the SMMPA contract. This indicates that the CROD will not be available to RPU past 2030.

Assuming aggressive DSM and increased energy efficiency, RPU will not face capacity or energy deficits until approximately 2026. Planning for the CROD replacement will need to begin approximately eight to ten years prior to the end of the SMMPA contract due to the size of the resource. In addition, based on current load projections, RPU will need to start planning for the addition of its next resource two to three years prior to needing the capacity and energy. Also, based on the current load projections, additional renewable resources to meet Minnesota RPS requirements will not be required until approximately 2025. A summary activity chart showing the timing of the previous activities as well as suggested periods to review the long range plan against current conditions is shown in Table 4-1.

Activity:	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Aggressive DSM																						
CROD Replacement																						
Resource																						
Next Resource Based																						
on Load Growth																						
Next Renewable Resource																						
Long Range Plan Review	X					Χ					Χ					Χ					Χ	

Table 4-1: Summary of Long Range Plan Development Activities

4.6 CONCLUSIONS

Based on the analysis provided above, Burns & McDonnell has developed the following conclusions and recommendations:

6. RPU has determined that the resource expansion should consider the CROD expiring in 2030.

- 7. The next resource that RPU will need to acquire is in the 2027 time frame. The resource identified is an engine based plant. The lead time for this type of plant is approximately three years from beginning of permitting to commercial operation. Therefore, RPU would need to begin the formal project to install this unit in 2024.
- RPU will need to begin planning for the expiration of the CROD in the 2020 to 2022 time frame. This will provide sufficient lead time for RPU to investigate the approaches to replacing the capacity and construct a resource should that be the selected approach.
- Due to the CROD, the best renewable option that fits the RPU load curve is solar photovoltaic. Encouragement of installation of solar PV should be considered.
- 10. RPU should continue to pursue aggressive demand side management activities for both peak demand reduction and energy savings. Pursuit of time of use and dynamic pricing should be considered to provide incentives to the customer to reduce consumption.
- 11. RPU should continue to provide periodic updates to this plan. The main variable will be the success of the demand side management activities and the resultant load that has to be met. Should the load be greater than that assumed in the above analysis, adjustments to the capacity requirements will be necessary.

* * * * *

APPENDIX A STUDY ASSUMPTIONS

APPENDIX A - Study Assumptions

Rochester Public Utilities

Rochester Public Utilities

Project 49188 Resource Planning Assumptions

Load Fore	cast Assur	nptions
	Demand	Energy
	(MW)	(GWh)
2025	364.7	1,897.5
2026	369.6	1,925.9
2027	374.4	1,954.4
2028	379.3	1,982.8
2029	384.1	2,011.2
2030	389.0	2,039.7
2031	394.0	2,069.4
2032	399.1	2,099.5
2033	404.3	2,130.1
2034	409.6	2,161.1
2035	414.9	2,192.5
2036	420.2	2,224.4
2037	425.7	2,256.8
2038	431.2	2,289.7
2039	436.8	2,323.0
2040	442.5	2,356.8
2041	448.2	2,391.1
2042	454.0	2,426.0
2043	459.9	2,461.3
2044	465.8	2,497.1

[1]Load forecast based on linear projection of SMMPA's projection of RPU 2030 peak of 389 MW and energy of 2,039,674 MWh.

Rochester Public Utilities

Project 49188 Resource Planning Assumptions

Rochester Public Utilities Existing Resource Operating Assumptions

Unit	Fuel	Summer Capacity (MW)	Full Load Heat Rate (Btu/kWh)	FO&M ^[1] (\$/kw-yr) (2009\$)	VO&M ^[1] (\$/MWh) (2009\$)	Forced Outage	CO ₂ ^[4] (lbs/mmBtu)	SO ₂ ^[4] (Ibs/mmBtu)	NO _X ^[4] (Ibs/mmBtu)
Cascade Creek1	Gas	27	15,112	\$0.00	\$10.01	4.8%	120.4	0.00	0.09
Cascade Creek2	Gas	48	10,917	\$0.00	\$10.01	4.8%	119.9	0.00	0.10
CROD	N/A	216	-	[2]	[2]	-	-	-	-
Lake Zumbro	N/A	2	-	\$9.56	\$0.00	-	-	-	-
OWEF ^[3]	N/A	5	-	\$0.00	\$0.00	-	-	-	-
Silver Lake1	Coal	9.5	14,155	\$67.88	\$3.08	9.0%	204.3	1.55	0.42
Silver Lake2	Coal	14	14,705	\$67.88	\$3.08	9.0%	204.3	1.55	0.42
Silver Lake3	Coal	24	11,943	\$67.88	\$3.08	9.0%	204.3	1.55	0.42
Silver Lake4	Coal	45	12,078	\$67.88	\$3.08	9.0%	204.3	1.55	0.42

[1]Study uses 2009 real\$ throughout and assumes no escalation to 2009\$ Fixed and Variable O&M, respectively.

[2]CROD ends Dec. 31, 2030; rate projections to that point same as those used in Austin analysis.

[3]OWEF energy assumed 90% capacity factor and available only for native load requirements above CROD.

[4]Reported Unit Information From EPA's Clean Air Markets Website: http://camddataandmaps.epa.gov/gdm/;see 'Emissions-Historical' worksheet for more data.

Rochester Public Utilities

Project 49188 Resource Planning Assumptions

									*Study Adjuste	d Real Rates		
	On-Peak	Off-Peak	Demand	Trans.	Esc from	Esc from	Assumed	Assumed	Adj. On-Peak	Adj. Off-Peak	Demand	Trans.
	(\$/MWh)	(\$/MWh)	(\$/kW-yr)	(\$/kW-yr)	Base	Base	Real Esc	Real Esc	(\$/MWh)	(\$/MWh)	(\$/kW-yr)	(\$/kW-yr)
2009	\$46.16	\$34.98	\$10.66	\$2.66					\$46.16	\$34.98	\$10.66	\$2.66
2010	\$51.68	\$39.09	\$10.66	\$2.66	11.95%	11.75%	1.50%	1.50%	\$46.85	\$35.50	\$10.66	\$2.66
2011	\$55.25	\$41.79	\$10.66	\$2.66	6.92%	6.91%	1.50%	1.50%	\$47.56	\$36.04	\$10.66	\$2.66
2012	\$57.49	\$43.48	\$10.66	\$2.66	4.05%	4.03%	1.50%	1.50%	\$48.27	\$36.58	\$10.66	\$2.66
2013	\$60.45	\$45.71	\$10.66	\$2.66	5.16%	5.14%	1.50%	1.50%	\$48.99	\$37.13	\$10.66	\$2.66
2014	\$63.08	\$47.69	\$10.66	\$2.66	4.35%	4.33%	1.50%	1.50%	\$49.73	\$37.68	\$10.66	\$2.66
2015	\$61.18	\$46.24	\$10.66	\$2.66	-3.02%	-3.04%	1.50%	1.50%	\$50.47	\$38.25	\$10.66	\$2.66
2016	\$64.80	\$48.96	\$10.66	\$2.66	5.92%	5.88%	1.50%	1.50%	\$51.23	\$38.82	\$10.66	\$2.66
2017	\$68.43	\$51.68	\$10.66	\$2.66	5.61%	5.55%	1.50%	1.50%	\$52.00	\$39.40	\$10.66	\$2.66
2018	\$72.70	\$54.86	\$10.66	\$2.66	6.23%	6.16%	1.50%	1.50%	\$52.78	\$40.00	\$10.66	\$2.66
2019	\$72.08	\$54.35	\$10.66	\$2.66	-0.85%	-0.93%	1.50%	1.50%	\$53.57	\$40.60	\$10.66	\$2.66
2020	\$74.74	\$56.30	\$10.66	\$2.66	3.68%	3.58%	1.50%	1.50%	\$54.37	\$41.20	\$10.66	\$2.66
2021	\$77.24	\$58.11	\$10.66	\$2.66	3.35%	3.23%	1.50%	1.50%	\$55.19	\$41.82	\$10.66	\$2.66
2022	\$80.64	\$60.59	\$10.66	\$2.66	4.40%	4.26%	1.50%	1.50%	\$56.02	\$42.45	\$10.66	\$2.66
2023	\$84.61	\$63.47	\$10.66	\$2.66	4.92%	4.76%	1.50%	1.50%	\$56.86	\$43.09	\$10.66	\$2.66
2024	\$88.86	\$66.55	\$10.66	\$2.66	5.02%	4.85%	1.50%	1.50%	\$57.71	\$43.73	\$10.66	\$2.66
2025	\$92.76	\$69.35	\$10.66	\$2.66	4.39%	4.21%	1.50%	1.50%	\$58.58	\$44.39	\$10.66	\$2.66
2026	\$86.80	\$64.78	\$10.66	\$2.66	-6.42%	-6.60%	1.50%	1.50%	\$59.46	\$45.05	\$10.66	\$2.66
2027	\$80.45	\$59.92	\$10.66	\$2.66	-7.32%	-7.50%	1.50%	1.50%	\$60.35	\$45.73	\$10.66	\$2.66
2028	\$83.79	\$62.28	\$10.66	\$2.66	4 16%	3 94%	1.50%	1.50%	\$61.25	\$46.42	\$10.66	\$2.66
2020	\$87.74	\$65.07	\$10.66	\$2.66	4.10%	4 49%	1.50%	1.50%	\$62.17	\$47.11	\$10.66	\$2.66
2020	\$92.88	\$68.73	\$10.66	\$2.66	5 85%	5 62%	1.50%	1.50%	\$63.10	\$47.82	\$10.66	\$2.66
2031	\$95.66	\$70.79	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$64.05	\$48.54	\$10.66	\$2.66
2032	\$08.53	\$72.01	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$65.01	\$49.27	\$10.66	\$2.66
2032	¢101.00	\$75.10	\$10.66	\$2.60 \$2.66	3.00%	3.00%	1.50%	1.50%	\$65.00	\$50.00	\$10.66	\$2.66
2033	\$101.43 \$104.53	\$77.35	\$10.00 \$10.66	\$2.00 \$2.66	3.00%	3.00%	1.50%	1.50%	\$66.08	\$50.00 \$50.75	\$10.66	\$2.00 \$2.66
2034	\$107.67	\$70.67	\$10.00 \$10.66	\$2.00 \$2.66	3.00%	3.00%	1.50%	1.50%	\$67.98	\$50.75 \$51.52	\$10.66	\$2.00 \$2.66
2000	¢110.00	\$19.01 ¢00.06	\$10.00 \$10.66	\$2.00 \$2.66	3.00%	3.00%	1.50%	1.50%	\$07.90 \$60.00	\$51.52 \$52.20	\$10.00 \$10.66	φ2.00 ¢2.66
2030	\$110.90 ¢114.22	Φ02.00 ¢01.50	\$10.00 \$10.66	92.00 \$2.66	3.00%	3.00%	1.50%	1.50%	\$09.00 \$70.02	Φ02.29 \$52.07	\$10.00 \$10.66	φ2.00 ¢2.66
2037	φ114.22 ¢117.65	Φ04.00 ¢07.06	\$10.00 \$10.66	92.00 \$2.66	3.00%	3.00%	1.50%	1.50%	\$70.03	400.07 ¢50.07	\$10.00 \$10.66	φ2.00 ¢2.66
2030	01.1110 01.101	φο7.00 ¢00.67	\$10.00 \$10.66	92.00 \$2.66	3.00%	3.00%	1.50%	1.50%	\$71.09 \$72.45	400.07 ¢E4.69	\$10.00 \$10.66	φ2.00 ¢2.66
2039	\$121.10	\$89.07 \$00.00	\$10.00	\$2.00 \$2.00	3.00%	3.00%	1.50%	1.50%	\$72.15 \$72.00	\$04.08 ¢55.50	\$10.00	\$∠.00 ¢0.00
2040	\$124.82	\$92.30 ¢oc 40	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$73.23	\$55.50	\$10.66	\$2.66
2041	\$128.50	\$95.13	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$74.33	\$50.33	\$10.66	\$2.66
2042	\$132.42	\$97.99	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$75.45	\$57.17	\$10.66	\$2.66
2043	\$136.39	\$100.93	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$76.58	\$58.03	\$10.66	\$2.66
2044	\$140.48	\$103.96	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$77.73	\$58.90	\$10.66	\$2.66
2045	\$144.70	\$107.07	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$78.89	\$59.79	\$10.66	\$2.66
2046	\$149.04	\$110.29	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$80.08	\$60.68	\$10.66	\$2.66
2047	\$153.51	\$113.60	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$81.28	\$61.59	\$10.66	\$2.66
2048	\$158.11	\$117.00	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$82.50	\$62.52	\$10.66	\$2.66
2049	\$162.86	\$120.51	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$83.74	\$63.45	\$10.66	\$2.66
2050	\$167.74	\$124.13	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$84.99	\$64.41	\$10.66	\$2.66
2051	\$172.77	\$127.85	\$10.66	\$2.66	3.00%	3.00%	1.50%	1.50%	\$86.27	\$65.37	\$10.66	\$2.66

Base Case Rates from Austin files 'Rate Forecast to 2050.xls'

Rochester Public Utilities Project 49188 Resource Planning Assumptions

Rochester Public Utilities

New Resource Cost & Operating Assumptions

1 1 - 14	T	– .[1]	Earliest	Capital Cost	Yrs Debt	Summer	Full Load	FO&M		Forced	CO ₂	SO ₂	NO _X
Unit	туре	Fuel	COD	(\$/kW) ^[2]	Amortized	(MW) ^[3]	Heat Rate (Btu/kWh)	(\$/kw-yr) (2009\$)	(\$/IVIVVN) (2009\$)	Outage	(lbs/mmBtu)	(lbs/mmBtu)	(lbs/mmBtu)
Short-term Market	Contract	Gas	2009	-	1	-	-	\$76.38	\$0.00	0.0%	-	-	-
Wartsila (2 Engines)	Simple Cycle	Gas	2013	\$1,122	20	16.8	8,642	\$8.32	\$8.42	4.8%	125	0.0051	0.02
FT8 TwinPac	Simple Cycle	Gas	2013	\$1,351	20	50	10,346	\$12.88	\$1.58	4.8%	133	0.0051	0.1
1x1 7EA (duct-fired)	Combined Cycle	Gas	2014	\$1,955	30	134	7,849	\$21.22	\$5.04	5.0%	118	-	0.007
1x1 7FA (duct-fired)	Combined Cycle	Gas	2014	\$1,318	30	330	6,966	\$18.54	\$4.64	5.0%	118	-	0.007
Wind	PPA	N/A	2011	-	-	25	-	\$0.00	\$70.00	0.0%	-	-	-
Solar	Fixed-Axis PV	N/A	2011	\$4,000	20	5	-	\$0.00	\$0.00	0.0%	-	-	-
RPS Biomass ^[4]	Contract	TDF/Coal	2016	\$2,275	20	40	11,085	\$132.00	\$3.50	0.0%	118	0.05	0.11

[1]New gas-fired resources use same forecast as existing gas-fired resources;Biomass resource fired 50/50 on Coal/TDF; TDF fuel price of \$2.34/MMBtu (2009\$) escalated 3.0% annually. [2]Capital costs for lignite-fired resource and greenfield 1x1 7EA previously presented to SMEPA. Simple cycle 7EA estimate is derived from the same CCGT estimate.

All capital cost estimates are planning level only and presented in 2013\$ with the exception of the 1x1 7FA CCGT and RPS Biomass resources, which are presented in 2012\$ and 2008\$, respectivel All capital costs are entered as levelized annual debt service payments based on a 6.5% cost of debt, amortized over the number of years specified.

Capital cost is escalated 3% annually from the estimate year basis to the in-service year (if any) as selected by Strategist.

[3]Summer Capacity includes the months of May through September; Winter Capacity for all other months.

Rochester Public Utilities Project 49188 Resource Planning Assumptions

Ctoto	Facility	Facility	Unit ID	Associated	Veer	Drogrom(a)	Operating	# of Months	SO2	SO2 Rate	Avg. NOx	NOx	NOx Rate	CO2	CO2 Rate	Heat Input
State	Name	ID	Unit ID	Stack(s)	rear	Program(s)	Time	Reported	Tons	(lb/mmBtu)	Rate (lb/mmBtu)	Tons	(lb/mmBtu)	Tons	(lb/mmBtu)	(mmBtu)
MN	Cascade Creek	6058	CT2		2003	ARP	256	12	0.1	0.00451	0.13	2.6	0.11718	2,765.80	124.65577	44,375
MN	Cascade Creek	6058	CT2		2004	ARP	158	12	0	0.00000	0.1	1.2	0.09109	1,568.60	119.07238	26,347
MN	Cascade Creek	6058	CT2		2005	ARP	265	12	0	0.00000	0.09	1.8	0.08852	2,448.90	120.42783	40,670
MN	Cascade Creek	6058	CT2		2006	ARP	922	12	0.1	0.00090	0.09	9.4	0.08449	13,224.80	118.87247	222,504
MN	Cascade Creek	6058	CT2		2007	ARP	1,422	12	0.1	0.00057	0.1	15	0.08573	20,810.50	118.94569	349,916
	Unit Averages									0.00120	0.10200		0.09340		120.39483	
MN	Cascade Creek	6058	CT3		2003	ARP	214	12	0.1	0.00563	0.14	2.4	0.13518	2,180.50	122.82085	35,507
MN	Cascade Creek	6058	CT3		2004	ARP	174	12	0	0.00000	0.09	1.3	0.09252	1,677.70	119.40075	28,102
MN	Cascade Creek	6058	CT3		2005	ARP	241	12	0	0.00000	0.09	1.7	0.09157	2,214.00	119.25988	37,129
MN	Cascade Creek	6058	CT3		2006	ARP	913	12	0.1	0.00090	0.09	9	0.08137	13,146.60	118.86672	221,199
MN	Cascade Creek	6058	CT3		2007	ARP	1,349	12	0.1	0.00062	0.11	15.3	0.09444	19,269.70	118.94766	324,003
	Unit Averages									0.00143	0.10400		0.09902		119.85917	
MN	Silver Lake	2008	4		2003	ARP	5,725	12	1,913.30	1.64003	0.43	533.9	0.45764	238,894.80	204.77393	2,333,254
MN	Silver Lake	2008	4		2004	ARP	6,649	12	2,201.50	1.58361	0.4	595.5	0.42836	284,386.00	204.56775	2,780,360
MN	Silver Lake	2008	4		2005	ARP	5,224	12	1,575.10	1.57115	0.41	435.5	0.43441	204,487.80	203.97562	2,005,022
MN	Silver Lake	2008	4		2006	ARP	4,238	12	1,260.30	1.51089	0.38	330.6	0.39634	170,038.70	203.84875	1,668,283
MN	Silver Lake	2008	4		2007	ARP	6,234	12	1,837.00	1.46551	0.38	482.4	0.38485	256,161.10	204.35888	2,506,973
	Unit Averages									1.55424	0.40000		0.42032		204.30499	

[1]Reported Unit Information From EPA's Clean Air Markets Website: http://camddataandmaps.epa.gov/gdm/

Annual Carbon Tax Assumptions

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
CO ₂ Cost	\$0.00	\$0.00	\$0.00	\$30.00	\$32.00	\$34.00	\$36.00	\$37.00	\$39.00	\$40.00	\$41.00	\$42.00	\$43.00	\$44.00	\$46.00
Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
CO ₂ Cost	\$47.00	\$48.00	\$50.00	\$53.00	\$56.00	\$59.00	\$61.00	\$63.00	\$66.00	\$69.00	\$72.00	\$74.00	\$77.00	\$80.00	\$84.00
Year	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050			
CO ₂ Cost	\$89.00	\$93.00	\$98.00	\$103.00	\$108.00	\$113.00	\$119.00	\$125.00	\$130.00	\$137.00	\$144.00	\$151.00			

Study Natural Gas Forecast



Carbon Tax Adjusted Market Price Forecast



APPENDIX B CONTRACT EXTENSION ANALYSIS DETAILED PRODUCTION COST OUTPUT

						F	Project 49	188 - Inf	rastructu	re Updat	е											
Dete lie v	11.26	Description	0005	0000	0007		SMMPA (Contract E	Extension	n Analysi	S	0004	0005	0000	0007	0000	0000	00.40	0044	00.40	0040	0044
Data Item		Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
	MW	RPU	364 7	369.6	374 4	379 3	2,011	2,040	2,009 394 0	2,099	2,130	2,101	2,195 414 9	2,224 420 2	2,257 425 7	2,290	2,323	2,337	2,391	2,420 454 0	2,401 459 9	2,497
ECONOMY INTERCHANGE PURCHASE ENER	GWH		84	84	95	95	101	94	93	90	90	106	103	107	98	109	100	113	106	111	111	105
ECONOMY INTERCHANGE PURCHASE COST	\$000		\$28,287	\$29,792	\$32,754	\$32,719	\$36,032	\$38,001	\$36,482	\$35,355	\$38,295	\$42,496	\$42,291	\$44,249	\$43,953	\$47,336	\$46,855	\$51,910	\$52,661	\$53,173	\$56,272	\$53,107
FIRM CAPACITY	MW	Cascade Creek1	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
FIRM CAPACITY	MW	Cascade Creek2	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
FIRM CAPACITY	MW	Lake Zumbro	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
FIRM CAPACITY	MW	Silver Lake1	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
FIRM CAPACITY	MW	Silver Lake2	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
	MW	Silver Lake3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
		Silver Lake4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
FIRM CAPACITY	MW	Wartsila:2025.700	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2030:698	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2033:697	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2036:696	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2039:695	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2043:694	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8
GENERATION	GWH	Cascade Creek1	1	1	1	3	3	2	2	2	1	2	2	1	1	1	1	1	1	1	1	1
GENERATION	GWH	Cascade Creek2	21	18	19	19	20	17	17	16	14	15	16	13	13	13	10	12	13	13	11	9
GENERATION	GWH	Lake Zumbro	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
	GWH	Silver Lake	0	0	1	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
GENERATION	GWH	Silver Lake3	0	6	5	4	4	4	4	3	3	3	0 3	3	3	3	2	3	3	3	2	2
GENERATION	GWH	Silver Lake4	7	6	6	6	7	6	6	5	4	5	5	4	4	4	3	4	4	4	4	3
GENERATION	GWH	Wartsila:2025:700	19	16	17	16	17	16	15	15	15	14	15	14	14	14	13	13	13	13	13	12
GENERATION	GWH	Wartsila:2026:699	0	21	21	20	21	18	18	17	16	16	16	15	15	16	14	15	15	14	14	14
GENERATION	GWH	Wartsila:2030:698	0	0	0	0	0	22	21	21	18	18	18	17	17	17	16	16	16	16	15	15
GENERATION	GWH	Wartsila:2033:697	0	0	0	0	0	0	0	0	22	22	21	19	19	19	17	17	18	17	16	16
GENERATION	GWH	Wartsila:2036:696	0	0	0	0	0	0	0	0	0	0	0	22	22	23	19	19	19	19	18	17
GENERATION GENERATION	GWH GWH	Wartsila:2039:695 Wartsila:2043:694	0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0	22 0	22 0	22 0	21 0	20 22	19 21
	%	Cascado Crook1	0.40%	0.28%	0.33%	1 08%	1 26%	0.85%	0.81%	0 78%	0.52%	0.67%	0.67%	0.40%	0.43%	0.46%	0.20%	0 30%	0 43%	0.42%	0.30%	0.26%
	%	Cascade Creek?	5.00%	4 25%	4 43%	4 43%	4 79%	4 08%	3.98%	3 72%	3 24%	3.65%	3 71%	3 15%	3 10%	3 15%	2 42%	2 94%	3.08%	3.08%	2.53%	2 23%
CAPACITY FACTOR	%	Lake Zumbro	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%
CAPACITY FACTOR	%	Silver Lake1	0.51%	0.35%	0.74%	0.47%	0.52%	0.66%	0.63%	0.62%	0.47%	0.55%	0.55%	0.42%	0.45%	0.48%	0.32%	0.38%	0.43%	0.45%	0.34%	0.30%
CAPACITY FACTOR	%	Silver Lake2	0.28%	0.19%	0.23%	0.26%	0.28%	0.19%	0.19%	0.18%	0.12%	0.16%	0.16%	0.23%	0.25%	0.27%	0.18%	0.21%	0.24%	0.24%	0.18%	0.16%
CAPACITY FACTOR	%	Silver Lake3	3.04%	2.64%	2.56%	1.88%	1.91%	1.74%	1.68%	1.61%	1.32%	1.47%	1.57%	1.35%	1.35%	1.38%	1.02%	1.29%	1.30%	1.32%	1.11%	0.97%
CAPACITY FACTOR	%	Silver Lake4	1.81%	1.64%	1.60%	1.58%	1.70%	1.50%	1.43%	1.34%	1.03%	1.22%	1.28%	1.08%	1.05%	1.08%	0.83%	1.06%	1.10%	1.09%	0.91%	0.78%
CAPACITY FACTOR	%	Wartsila:2025:700	12.97%	11.16%	11.40%	10.69%	11.39%	10.91%	10.50%	10.47%	10.06%	9.84%	10.13%	9.51%	9.47%	9.76%	8.86%	9.09%	9.04%	8.98%	8.67%	8.38%
	%	Wartsila:2026:699		14.05%	14.59%	13.58%	14.36%	12.42%	11.92%	11.78%	11.15%	10.85%	11.11%	10.48%	10.44%	10.70%	9.76%	9.92%	10.01%	9.78%	9.46%	9.28%
	70 9/	Waltsila.2030.096						14.03%	14.29%	14.42%	12.30%	12.10%	12.21%	12 78%	11.42%	13.05%	10.04%	10.70%	10.90%	10.02%	10.10%	10.04%
	/0 %	Wartsila:2033.097									14.9370	14.00%	14.3976	12.76%	12.72%	15.05%	13.00%	12 93%	13 17%	12 73%	12 12%	11 76%
CAPACITY FACTOR	%	Wartsila:2039:695												14.1170	14.7070	10.07 /0	14.80%	14.72%	14.63%	14.22%	13.39%	12.85%
CAPACITY FACTOR	%	Wartsila:2043:694																			14.66%	13.98%
TOTAL O AND M COST	\$000	Cascade Creek1	\$9	\$6	\$8	\$25	\$29	\$20	\$19	\$18	\$12	\$15	\$15	\$9	\$10	\$11	\$7	\$9	\$10	\$10	\$7	\$6
TOTAL O AND M COST	\$000	Cascade Creek2	\$204	\$173	\$181	\$182	\$196	\$167	\$163	\$152	\$132	\$149	\$152	\$129	\$127	\$129	\$99	\$121	\$126	\$126	\$104	\$92
TOTAL O AND M COST	\$000	Lake Zumbro	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
TOTAL O AND M COST	\$000	Silver Lake1	\$627	\$627	\$628	\$627	\$627	\$628 \$000	\$628	\$628 \$000	\$627	\$627	\$627	\$627 \$000	\$627 \$004	\$627	\$627 \$000	\$627	\$627	\$627	\$627	\$627
	\$000 \$000	Silver Lake2	\$924 \$1.601	\$923 \$1 509	\$923 ¢1 509	\$924 \$1.502	\$924 \$1.504	\$923 ¢1 502	\$923 \$1.502	\$923 ¢1 502	\$923 ¢1 500	\$923 \$1 501	\$923 \$1.501	\$923 \$1.500	\$924 \$1.500	\$924 \$1,500	\$923 ¢1 500	\$923 \$1.500	\$923 \$1.500	\$923 ¢1.500	\$923 ¢1 590	\$923 ¢1 500
	\$000 \$000	Silver Lakes	\$1,001	\$1,090 \$2,085	\$2,084	\$1,595	\$1,594	\$1,595 \$2,083	\$2,082 \$2,082	\$1,592 \$2,081	\$2,078	\$1,591	\$1,591 \$2,081	\$1,590	\$1,590 \$2,978	\$1,590 \$2,978	\$1,300 \$2,975	\$2,078	\$1,590 \$2,070	\$2,078	\$7,009 \$2,076	\$2,000 \$2,075
TOTAL O AND M COST	\$000	Wartsila:2025:700	\$300	\$278	\$281	\$273	\$281	\$275	\$270	\$270	\$264	\$262	\$265	\$258	\$257	\$261	\$250	\$253	\$252	\$251	\$247	\$244
TOTAL O AND M COST	\$000	Wartsila:2026:699	\$0	\$314	\$321	\$308	\$318	\$294	\$287	\$286	\$278	\$274	\$277	\$270	\$269	\$272	\$261	\$263	\$264	\$261	\$257	\$255
TOTAL O AND M COST	\$000	Wartsila:2030:698	\$0	\$0	\$0	\$0	\$0	\$324	\$317	\$319	\$295	\$291	\$291	\$283	\$281	\$284	\$272	\$274	\$276	\$271	\$266	\$265
TOTAL O AND M COST	\$000	Wartsila:2033:697	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$325	\$322	\$321	\$299	\$297	\$302	\$284	\$285	\$288	\$283	\$276	\$274
TOTAL O AND M COST	\$000	Wartsila:2036:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$323	\$322	\$333	\$301	\$300	\$303	\$298	\$290	\$286
TOTAL O AND M COST	\$000	Wartsila:2039:695	\$0 \$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$323	\$323	\$321	\$316	\$306	\$299
IOTAL O AND M COST	\$000	Wartsila:2043:694	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$321	\$314
	\$/MWH \$/MWH	Cascade Creek1	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$0.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$0.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$9.72	\$9.72 \$0.72
	љ/№№И \$/М\//Н	Cascaue Creek∠ Silver Lake1	₽9.1∠ \$2 99	φ9.7∠ \$2.99	J9.12 \$2.99	়ুখ./∠ \$2.00	99.1∠ \$2.99	99.12 \$2.99	J9.12 \$2.90	७७.1∠ \$2.00	y9.1∠ \$2.00	99.12 \$2.99	⊕9.7∠ \$2.99	⊕9.7∠ \$2.90	७७.7∠ \$2.99	७७./∠ \$2.00	⊅9.7∠ \$2.90	99.12 \$2.99	କ୍ଟ.7∠ \$2 ବବ	⊅9.7∠ \$2.99	φ9.7∠ \$2.90	J9.7∠ \$2.90
VARIABLE O AND M COSTS	\$/MW/H	Silver Lake?	\$2.99	\$2.99 \$2.99	\$2.99 \$2.99	\$2.99 \$2.99	\$2.99	\$2.99 \$2.99	\$2.99 \$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99 \$2.99	\$2.99 \$2.99	\$2.99 \$2.99	\$2.99	\$2.99	\$2.99	\$2.99 \$2.99	\$2.99 \$2.99	\$2.99
VARIABLE O AND M COSTS	\$/MWH	Silver Lake3	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99

Rochester Public Utilities

Project 49188 - Infrastructure Update

						0		Unitact		i Anaiysis	5											
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
VARIABLE O AND M COSTS	\$/MWH	Silver Lake4	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99
	¢/\\/\/LI	Wortaila:2025:700	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0.40	¢0 40
	⊅/IVIVV⊓	Waltslia.2025.700	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	⊅0.4 ∠	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2026:699	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2030:698	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2033:697	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42	\$8 42
	¢/\\/\/LI	Wartaila:2000.001	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.12	¢0.12	¢0.12	¢0.10	¢0.12	¢0.12	¢0.12	¢0.12	¢0.10
	⊅/IVIVV⊓	Waltslia.2030.090	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	φ0.4Z	J0.4∠	J0.4∠	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z	φ0.4Z
VARIABLE O AND M COSTS	\$/MVVH	Wartsila:2039:695	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2043:694	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42
FIXED O AND M COST	\$000	Cascade Creek1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	\$000 \$000		ψ0 Φ0	ψ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	ψ0 Φ0	ψ0 Φ0	ψ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	ψ0 Φ0	ψ0 Φ0	ψ0 Φ0	φ0 Φ0	ψ0 Φ0	ψ0 Φ0	ψ0 Φ0	ψ0 Φ0
FIXED O AND M COST	\$000	Cascade Creek2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FIXED O AND M COST	\$000	Lake Zumbro	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
FIXED O AND M COST	\$000	Silver Lake1	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626
	¢000	Silver Lake?	¢020	¢022	¢022	¢022	¢022	¢022	¢022	¢022	¢022	¢022	¢020	¢022	¢022	¢022	¢022	¢022	¢022	¢022	¢022	¢022
	\$000		ψ 9 23	ψ923 Φ4 Ξ00	\$923 \$4 500	ψ923 Φ4 500	ψ 3 23	ψ923 Φ4 Ξοο	ψ923 Φ4 500	ψ 9 23	ψ923 Φ4 Ξ00	ψ923 Φ4 Ξ00	ψ923 Φ4 500	\$923 \$4 E00	\$923 \$4 E00	\$923 \$4 500	ψ923 Φ4 Ξ00	\$923 \$4 E00	φ <u>9</u> 23	\$923 \$4 E00	ψ923 Φ4 Ξ00	ψ923 Φ4 Ξ00
FIXED O AND M COST	\$000	Silver Lake3	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582	\$1,582
FIXED O AND M COST	\$000	Silver Lake4	\$2,966	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,966	\$2,966	\$2,965	\$2,965	\$2,965	\$2,966	\$2,965	\$2,965	\$2,965	\$2,965
FIXED O AND M COST	\$000	Wartsila:2025:700	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
	\$000	Wartsila:2026:600	\$0.	¢140	\$140	\$140	\$140	\$140	\$140	¢140	\$140	\$140	\$140	¢140	\$140	\$140	\$140	¢140	\$140	\$140	\$140	¢140
	\$000		ψ0 Φο	φ140 Φο	\$140 \$	φ1 4 0	\$140 \$2	\$140 \$140	\$140 \$140	\$140 \$140	\$140	\$140	\$140 \$140	\$140 \$140	\$140	\$140	\$140 \$140	\$140 \$140	\$140	\$140	\$140 \$140	φ140 Φ140
FIXED O AND M COST	\$000	Wartsila:2030:698	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2033:697	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2036:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
	\$000	Wartsila:2030:605	¢0	¢0	¢0	¢0	¢0	\$0	\$0	¢0	\$0	¢0	\$0	\$0	\$0	\$0	\$140	¢140	\$140	\$140	\$140	¢140
	\$000		ψ0 Φο	φ0 Φ0	ф0 Фо	φ0 Φ0	φ0 Φ0	ψU Φ0	ψ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	\$140 \$2	φ140 Φο	\$140 \$	φ1 4 0	\$140 \$140	φ140 Φ140
FIXED O AND M COST	\$000	Wartsila:2043:694	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140
ANNUAL DEBT SERVICE	\$000	Wartsila:2025:700	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643
ANNUAL DEBT SERVICE	\$000	Wartsila:2026:699	\$0	\$1 643	\$1 643	\$1,643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643	\$1 643
	¢000	Wartsila:2020:000	φ0 ¢0	¢1,040	φ1,0 4 0	φ1,040 ¢0	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040	¢1,040
ANNUAL DEBT SERVICE	\$000	Wartsila:2030:698	\$0	\$0	\$0	\$0	\$0	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643
ANNUAL DEBT SERVICE	\$000	Wartsila:2033:697	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643
ANNUAL DEBT SERVICE	\$000	Wartsila:2036:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643	\$1.643
ANNUAL DEBT SERVICE	\$000	Wartsila:2030:605	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0.2	\$0	0.2	\$0	\$0	\$0	\$1 6/3	\$1 6/3	\$1 6/3	\$1 6/3	\$1 6/3	\$1 6/3
	\$000 \$000	Waitsila.2009.090	ψ0 Φ0	ψ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	ψ0 Φ0	ψ0 Φ0	ψ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	ψ0 Φ0	ψ0 Φ0	ψ1,0 4 0	ψ1,0 4 0	ψ1,0 4 0	φ1,0 4 0	φ1,0 4 0	\$1,0 4 0
ANNUAL DEBT SERVICE	\$000	Wartsila:2043:694	\$ 0	\$ 0	\$ 0	\$ 0	20	\$ 0	\$ 0	\$ 0	\$ 0	\$ 0	20	\$ 0	\$ 0	\$ 0	\$ 0	20	20	20	\$1,643	\$1,643
TOTAL FUEL COST	\$000	Cascade Creek1	\$75	\$55	\$68	\$225	\$266	\$182	\$178	\$175	\$120	\$158	\$163	\$99	\$109	\$120	\$78	\$105	\$120	\$118	\$88	\$77
TOTAL FUEL COST	\$000	Cascade Creek2	\$1,227	\$1.078	\$1,159	\$1,194	\$1.303	\$1,127	\$1,124	\$1.081	\$960	\$1,109	\$1,153	\$1.003	\$1.010	\$1.052	\$828	\$1.030	\$1,102	\$1,125	\$950	\$861
	\$000	Silver Lake1	¢26	¢25	¢55	¢26	¢ / 1	¢52	¢52	Ф <i>Б</i> И	¢40	¢50	¢51	¢40	¢15	¢40	¢24	¢11	¢10	¢50	¢40	¢26
		Silver Laker	0.0U	JZ()	(D;);)	0.00	JD4 I	303	303	304	Φ4 Ζ	4 50	40 I	J40	345	J49	334	- φ 4 Ι	Ψ 40	φ0Z	φ40	430
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TOTAL FUEL COST	\$000	Silver Lake2	\$29	\$21	\$26	\$31	\$33	\$24	\$24	\$24	\$16	\$22	\$23	\$35	\$39	\$43	\$29	\$36	\$41	\$42	\$33	\$31
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000	Silver Lake2 Silver Lake3	\$29 \$454	\$21 \$405	\$26 \$406	\$31 \$307	\$33 \$320	\$24 \$302	\$24 \$299	\$24 \$295	\$16 \$249	\$22 \$286	\$23 \$314	\$35 \$280	\$39 \$287	\$43 \$303	\$29 \$231	\$36 \$300	\$41 \$312	\$42 \$325	\$33 \$282	\$31 \$253
TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4	\$29 \$454 \$512	\$21 \$405 \$477	\$26 \$406 \$479	\$31 \$307 \$491	\$33 \$320 \$543	\$24 \$302 \$493	\$24 \$299 \$482	\$24 \$295 \$468	\$16 \$249 \$368	\$22 \$286 \$452	\$23 \$314 \$487	\$35 \$280 \$424	\$39 \$287 \$425	\$43 \$303 \$447	\$29 \$231 \$353	\$36 \$300 \$470	\$41 \$312 \$501	\$42 \$325 \$507	\$33 \$282 \$438	\$31 \$253 \$387
TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wortsile:2025:700	\$29 \$454 \$512 \$887	\$21 \$405 \$477 \$787	\$26 \$406 \$479 \$832	\$31 \$307 \$491 \$790	\$33 \$320 \$543 \$863	\$24 \$302 \$493 \$840	\$24 \$299 \$482 \$825	\$24 \$295 \$468 \$846	\$16 \$249 \$368 \$830	\$22 \$286 \$452 \$820	\$23 \$314 \$487 \$876	\$35 \$280 \$424 \$844	\$39 \$287 \$425 \$857	\$43 \$303 \$447 \$909	\$29 \$231 \$353 \$843	\$36 \$300 \$470 \$885	\$41 \$312 \$501 \$902	\$42 \$325 \$507 \$914	\$33 \$282 \$438 \$904	\$31 \$253 \$387 \$002
TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700	\$29 \$454 \$512 \$887	\$21 \$405 \$477 \$787	\$26 \$406 \$479 \$832	\$31 \$307 \$491 \$799	\$33 \$320 \$543 \$863	\$24 \$302 \$493 \$840	\$24 \$299 \$482 \$825	\$24 \$295 \$468 \$846	\$16 \$249 \$368 \$830	\$22 \$286 \$452 \$829	\$23 \$314 \$487 \$876	\$35 \$280 \$424 \$844	\$39 \$287 \$425 \$857	\$43 \$303 \$447 \$909	\$29 \$231 \$353 \$843	\$36 \$300 \$470 \$885	\$41 \$312 \$501 \$902	\$42 \$325 \$507 \$914	\$33 \$282 \$438 \$904	\$31 \$253 \$387 \$902
TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699	\$29 \$454 \$512 \$887 \$0	\$21 \$405 \$477 \$787 \$997	\$26 \$406 \$479 \$832 \$1,073	\$31 \$307 \$491 \$799 \$1,022	\$33 \$320 \$543 \$863 \$1,094	\$24 \$302 \$493 \$840 \$958	\$24 \$299 \$482 \$825 \$938	\$24 \$295 \$468 \$846 \$954	\$16 \$249 \$368 \$830 \$921	\$22 \$286 \$452 \$829 \$916	\$23 \$314 \$487 \$876 \$962	\$35 \$280 \$424 \$844 \$932	\$39 \$287 \$425 \$857 \$945	\$43 \$303 \$447 \$909 \$997	\$29 \$231 \$353 \$843 \$930	\$36 \$300 \$470 \$885 \$968	\$41 \$312 \$501 \$902 \$1,000	\$42 \$325 \$507 \$914 \$996	\$33 \$282 \$438 \$904 \$988	\$31 \$253 \$387 \$902 \$1,000
TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698	\$29 \$454 \$512 \$887 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150	\$24 \$299 \$482 \$825 \$938 \$1,129	\$24 \$295 \$468 \$846 \$954 \$1,177	\$16 \$249 \$368 \$830 \$921 \$1,040	\$22 \$286 \$452 \$829 \$916 \$1,033	\$23 \$314 \$487 \$876 \$962 \$1,059	\$35 \$280 \$424 \$844 \$932 \$1,025	\$39 \$287 \$425 \$857 \$945 \$1,036	\$43 \$303 \$447 \$909 \$997 \$1,084	\$29 \$231 \$353 \$843 \$930 \$1,014	\$36 \$300 \$470 \$885 \$968 \$1,054	\$41 \$312 \$501 \$902 \$1,000 \$1,097	\$42 \$325 \$507 \$914 \$996 \$1,084	\$33 \$282 \$438 \$904 \$988 \$1,064	\$31 \$253 \$387 \$902 \$1,000 \$1,082
TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1.154	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1.168
TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1 324	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1 344	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1 245	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1 305	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1 271	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696 Wartsila:2039:695	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$1,126	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 \$0	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,827 11,236	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$0 \$1,126 \$800	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 860 8684	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,662	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6 667	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8 117	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6 973	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6 163
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 \$0 \$0 \$0 \$1,157	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$999 8,663	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,245 \$1,425 \$0 635 6,667 605	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 510	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 510	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 6,973	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 6,63
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake1	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$11,678 417	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,673 10,257 754	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,450 10,219 656	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$12,175 888 419	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$1,827 11,236 789 358	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,744 10,945 762 345	\$24 \$295 \$468 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,673 10,257 754 333	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 \$70 223	\$22 \$286 \$452 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574 501	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392	\$41 \$312 \$501 \$902 \$1,090 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 1,126 8,899 570 223 3,382	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 1,441 10,042 664 289 3,774	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288 4,020	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 860 8,684 501 430 3,481	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake3 Silver Lake3	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 1,126 8,899 570 223 3,382 4 988	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6 230	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 860 8,684 501 430 3,481 5 267	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5 127	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4 014	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5 368	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4 423	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2005:700	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,673 10,257 754 333 4,129 6,547 \$242	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 570 223 3,382 4,988 \$200	\$22 \$286 \$452 \$829 \$916 \$1,033 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,450 10,219 656 288 4,020 6,230 8,055	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,570	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5,127 7,520	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,199	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,125	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,929	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4 Silver Lake4 Wartsila:2025:700	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$1,126 8,899 570 223 3,382 4,988 8,000	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042	\$36 \$300 \$470 \$885 \$968 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 \$70 223 3,382 4,988 8,000 8,861	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,441 10,042 664 289 3,774 5,956 7,819 8,625	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,450 10,219 656 288 4,020 6,230 8,056 8,828	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$999 8,663 \$574 \$01 3,550 \$5,238 7,760 8,502	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2030:696 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,953 8,715	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,483 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2030:698 Wartsila:2030:698 Wartsila:2030:698	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$1,441 10,042 664 289 3,774 5,956 7,819 8,625 9,684 11,671	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 14,772	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 41,200	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 9,264	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883 0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598 0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,158 9,510 10,472	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123	\$33 \$282 \$438 \$904 \$998 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2036:696 Wartsila:2039:695	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 \$70 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598 0 0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,631 9,377 10,241
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598 0 0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 0	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 CROD	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 \$70 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 1,272,264	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 1 264 457	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 0 1,256,522	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 0	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 0 0 2 5 1,216,22	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 0 2 1 187 721	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,200	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 3,129,195
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2030:697 Wartsila:2030:696 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 CROD	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$70 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0 1,272,264	\$22 \$286 \$452 \$829 \$916 \$1,033 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0 1,264,457	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 0 1,256,522	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,77	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,298	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 3,129,195
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2043:694 CROD	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0 1,272,264	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0 1,264,457	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 0 1,256,522	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,298	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 31,129,195
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:699 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 1,272,264 1	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598 0 0 1,252,419 1	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 1,264,457 1	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,738	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5,1,202,298 1	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 31,129,195 0
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek1 Cascade Creek2	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$962 \$1,059 \$1,273 \$0 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598 0 0 1,252,419 1 8	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 1,264,457 1 7	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 0 1,256,522 1 7	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,777 1 7	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28 1 7	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735 1 7	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,296 1 6	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 3,129,195 0 5
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 </td <td>Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:203:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Silver Lake2 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek2 Silver Lake4</td> <td>\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$16 \$249 \$368 \$830 \$921 \$1,040 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,224 \$0 \$0 \$0 \$223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0 1,272,264 1 7</td> <td>\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0 1,264,457 1</td> <td>\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1 7</td> <td>\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1</td> <td>\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,77 1 7</td> <td>\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28 1 7</td> <td>\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735 1 7</td> <td>\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,768 9,633 10,640 11,653 5 1,202,298 1 6 1</td> <td>\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 31,129,195 0 5 1</td>	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:203:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Silver Lake2 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek2 Silver Lake4	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,224 \$0 \$0 \$0 \$223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0 1,272,264 1 7	\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0 1,264,457 1	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1 7	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 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TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 </td <td>Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:698 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake1</td> <td>\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 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\$0</td> <td>\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6</td> <td>\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,777 1</td> <td>\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28 1 7</td> <td>\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,738 1 7</td> <td>\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 51,202,298 1 6 1</td> <td>\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 3,129,195 0 5 1</td>	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:698 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake1	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 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TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 \$000	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2030:698 Wartsila:2036:699 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake4	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$16 \$249 \$368 \$830 \$921 \$1,040 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$22 \$286 \$452 \$829 \$916 \$1,033 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$23 \$314 \$487 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 1,264,457 1 7 1	\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1 7	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 1,256,522 1 7 1 1	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1 1	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,777 1 7 1	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28 1 7 1 1	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735 1 7 1 1	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,298 1 6 1 1	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 3 1,129,195 0 5 1 1
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	 \$000 \$000<td>Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Silver Lake2 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:699 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek1 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake3</td><td>\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0 1,272,264 1 7 1 0 7</td><td>\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0 1,264,457 1 1 7</td><td>\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1 7</td><td>\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 0 1,256,522 1 7 1 1 7</td><td>\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1 1 5</td><td>\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,77 1 7 1 1 7</td><td>\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28 1 7 1 1 7</td><td>\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735 1 7 7</td><td>\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,768 9,633 10,640 11,653 5 1,202,298 1 6 1 1 6</td><td>\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 31,129,195 0 5 1 1 1 5</td>	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Silver Lake2 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:699 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek1 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake3	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$24 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TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	 \$000 \$000<td>Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake2 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:699 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake2 Silver Lake3 Silver Lake3 Silver Lake3 Silver Lake4 CROD</td><td>\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 1,827 11,236 789 358 4,474 7,316 8,676 9,873 11,786 0 0 1,315,723 1 9 2 1 9 15</td><td>\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 1,126 8,899 570 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0 1,272,264 1 7 1 0 7 10</td><td>\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 1,450 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598 0 0 1,252,419 1 8 1 1 8 1 3</td><td>\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0 1,264,457 1 7 1 1</td><td>\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1 7 1 1</td><td>\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1 1 5 8</td><td>\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,777 1 1 7 11</td><td>\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28 1 7 11</td><td>\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735 1 7 1 1</td><td>\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,298 1 6 1 1 6 9</td><td>\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 3,1,29,195 0 5 1 1 5 8</td>	Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake2 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:699 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake2 Silver Lake3 Silver Lake3 Silver Lake3 Silver Lake4 CROD	\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 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8,003 8,631 9,377 10,241 11,144 3,1,29,195 0 5 1 1 5 8
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	\$000 </td <td>Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2026:699 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2030:698 Wartsila:2030:698 Wartsila:2033:697 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake4 Wartsila:2043:694 CROD</td> <td>\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td> <td>\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 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0 1,241,755 1 7 1 1</td> <td>\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 1,256,522 1 7 1 1 7 1 1</td> <td>\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1 1 5 8</td> <td>\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,777 1 7 1 1 7 1 1</td> <td>\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 10,472 11,627 0 5 1,216,28 1 7 1 1 1 1</td> <td>\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,1187,735 1 7 1 1 7 1 1</td> <td>\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 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7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1 7 1 1	\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 999 8,663 574 501 3,550 5,238 7,760 8,502 9,234 10,376 12,373 0 1,256,522 1 7 1 1 7 1 1	\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1 1 5 8	\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,777 1 7 1 1 7 1 1	\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 10,472 11,627 0 5 1,216,28 1 7 1 1 1 1	\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,1187,735 1 7 1 1 7 1 1	\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,298 1 6 1 1 6 1 1 6 1 1 6 1	\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 9,377 10,241 11,144 31,129,195 0 5 1 1 5 8 1
TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	 \$000 \$000<td>Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek2 Silver Lake3 Silver Lake2 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2036:696 Wartsila:2039:695 Wartsila:2043:697 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek1 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2043:694 CROD</td><td>\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 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1,256,522 1 7 1 1 7 1 1</td><td>\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1 1 5 8 1</td><td>\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,77 1 7 1 1 7 1 1</td><td>\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 5 1,216,28 1 7 1 1 1 7 1 1</td><td>\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735 1 1 7 1 1 7 1 1</td><td>\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,768 9,633 10,640 11,653 5 1,202,298 1 6 9 1</td><td>\$31 \$253 \$387 \$902 \$1,000 \$1,082 \$1,168 \$1,271 \$1,392 \$1,519 557 6,163 357 300 2,485 3,798 6,677 7,400 8,003 8,631 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TOTAL FUEL COST TOTAL FUEL COST CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	 \$000 \$000<td>Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2033:697 Wartsila:2033:697 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 Cascade Creek1 Cascade Creek1 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2036:699 Wartsila:2039:695 Wartsila:2039:695 Wartsila:2043:694 CROD Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake4 Silver Lake4 Wartsila:2025:700 Wartsila:2025:700 Wartsila:2026:699</td><td>\$29 \$454 \$512 \$887 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$21 \$405 \$477 \$787 \$997 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$26 \$406 \$479 \$832 \$1,073 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$31 \$307 \$491 \$799 \$1,022 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$33 \$320 \$543 \$863 \$1,094 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$302 \$493 \$840 \$958 \$1,150 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$299 \$482 \$825 \$938 \$1,129 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$24 \$295 \$468 \$846 \$954 \$1,177 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$16 \$249 \$368 \$830 \$921 \$1,040 \$1,244 \$0 \$0 \$0 \$0 \$0 \$1,126 8,899 \$70 223 3,382 4,988 8,000 8,861 9,981 11,883 0 0 0 1,272,264 1 7 10 1 1</td><td>\$22 \$286 \$452 \$829 \$916 \$1,033 \$1,253 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$23 \$314 \$487 \$876 \$962 \$1,059 \$1,273 \$0 \$0 10,219 656 288 4,020 6,230 8,056 8,828 9,705 11,598 0 0 0 1,252,419 1 8 1 1 8 1 1 8 1 1 1 8</td><td>\$35 \$280 \$424 \$844 \$932 \$1,025 \$1,141 \$1,324 \$0 \$0 860 8,684 501 430 3,481 5,267 7,579 8,354 9,173 10,187 11,770 0 0 1,264,457 1 1 7 1 1 1 7</td><td>\$39 \$287 \$425 \$857 \$945 \$1,036 \$1,157 \$1,344 \$0 931 8,521 540 468 3,467 5,127 7,529 8,297 9,076 10,108 11,688 0 0 1,241,755 1 7 1 1 7 1 1</td><td>\$43 \$303 \$447 \$909 \$997 \$1,084 \$1,223 \$1,467 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0</td><td>\$29 \$231 \$353 \$843 \$930 \$1,014 \$1,113 \$1,245 \$1,425 \$0 635 6,667 389 333 2,628 4,014 7,042 7,758 8,457 9,264 10,332 11,768 0 1,229,453 0 6 1 1 5 8 1 1</td><td>\$36 \$300 \$470 \$885 \$968 \$1,054 \$1,149 \$1,271 \$1,456 \$0 832 8,117 454 392 3,312 5,188 7,246 7,909 8,596 9,342 10,305 11,734 0 1,239,777 1 7 1 1 7 1 1 1 7</td><td>\$41 \$312 \$501 \$902 \$1,000 \$1,097 \$1,199 \$1,323 \$1,475 \$0 932 8,484 513 445 3,344 5,368 7,188 7,953 8,715 9,510 10,472 11,627 0 '5 1,216,28 1 7 11 1 7 11 1 1</td><td>\$42 \$325 \$507 \$914 \$996 \$1,084 \$1,183 \$1,305 \$1,464 \$0 893 8,460 543 439 3,381 5,280 7,135 7,773 8,444 9,196 10,123 11,305 0 2 1,187,735 1 7 1 1 7 1 1 7</td><td>\$33 \$282 \$438 \$904 \$988 \$1,064 \$1,154 \$1,271 \$1,409 \$1,548 651 6,973 409 337 2,854 4,423 6,888 7,523 8,095 8,768 9,633 10,640 11,653 5 1,202,298 1 6 1 1 6 9 1 1</td><td>\$31 \$253 \$387 \$902 \$1,000 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8,003 8,631 9,377 10,241 11,144 31,129,195 0 5 1 1 5 5 8 1 1 5 5 8 1 1

APPENDIX B - Contract Extension Analysis Detailed Production Cost Output

Rochester Public Utilities Project 49188 - Infrastructure Update

SMMPA Contract Extension Analysis																						
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
NOx	TONS	Wartsila:2033:697	0	0	0	0	0	0	0	0	2	2	2	2	2	2	1	1	2	1	1	1
NOx	TONS	Wartsila:2036:696	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2	2	2	2	2
NOx	TONS	Wartsila 2039 695	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	2	2	2	2	2	2
NOX	TONS	Wartsila:2003:694	Õ	Õ	õ	0	Õ	0	Õ	0	0	Õ	Õ	Õ	0	Õ	0	0	0	0	2	2
NOX	TONO	Waltslid.2040.004	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
502	TONS	Cascade Creek1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Cascade Creek?	Õ	õ	õ	0	Õ	0	Õ	0	0	Õ	Õ	Õ	0	Õ	0 0	0	Õ	0 0	0	0
SO2	TONS	Silver Lake1	5	3	7	4	5	6	6	6	4	5	5	4	4	1	3	3	1	1	3	3
502 502	TONS		3	3	2	4	3	0	2	0	4	5	5	4	4	4	3	3	4	4	5	3
302 600	TONS		4	5	5	4	4	3	3	3	2	2	2	3	4	4	3	3	3	3	3	2
502	TONS	Silver Lake3	59	51	50	37	37	34	33	31	26	29	31	26	26	27	20	25	25	26	22	19
SU2	TONS	Silver Lake4	67	61	59	59	63	56	53	50	38	45	47	40	39	40	31	39	41	40	34	29
SO2	TONS	Wartsila:2025:700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Wartsila:2026:699	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Wartsila:2030:698	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Wartsila:2033:697	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Wartsila:2036:696	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
SO2	TONS	Wartsila:2039:695	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Wartsila:2043:694	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SYSTEM EFFLUENT EXPENSE	\$000	NOx	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SYSTEM FEELUENT EXPENSE	\$000	SO2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SYSTEM EFELLIENT EXPENSE	\$000	CO2	\$2 046	\$2 391	\$2,608	\$2,660	\$2 989	\$3.436	\$3 417	\$3 492	\$3,996	\$4 317	\$4 518	\$5 104	\$5 260	\$5 693	\$6 167	\$6 829	\$7 306	\$7 516	\$8 515	\$8 490
	\$000	CO2	\$62,040 \$62,108	\$65,283	\$60 770	\$72,000	\$76,637	\$80.250	\$81 120	\$83 032	\$87 786	\$02 311	\$02 670	\$97 363	\$00.340	\$105 548	\$100 /21	\$115 200	\$110 106	\$122 337	\$120.8/8	\$127 500
THEORE HEAE CROD ETTEDENT EAFENSE	φυυυ	002	φ02,100	φ05,205	\$09,779	\$72,000	\$70,037	φ00,23 9	φ01,129	φ03,032	φ07,700	ψ 9 2,511	φ92,079	φ 9 7,303	499,340	\$105,540	\$109,421	φ115,299	φ119,190	φ122,337	\$129,040	φ127,395
	N/1\A/		216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
			210.0	216.0	216.0	210.0	216.0	216.0	216.0	216.0	210.0	216.0	210.0	210.0	210.0	210.0	216.0	210.0	216.0	216.0	216.0	216.0
FIRM CAPACITY	MVV	CRODION	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
FIRM CAPACITY	MW	OWEF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FIRM CAPACITY	MW	Wind:2025:400	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.7	3.8	3.8	3.8	3.8	3.8	3.7	3.8	3.8	3.8	3.8	3.7
FIRM CAPACITY	MW	Wind:2028:399	0.0	0.0	0.0	3.8	3.8	3.8	3.8	3.8	3.7	3.8	3.8	3.8	3.8	3.8	3.7	3.8	3.8	3.8	3.8	3.7
FIRM CAPACITY	MW	Wind:2031:398	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	37	3.8	3.8	3.8	3.8	3.8	37	3.8	3.8	3.8	3.8	37
	MM	Wind:2032:397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	37	3.8	3.8	3.8	3.8	3.8	37	3.8	3.8	3.8	3.8	37
		Wind:2032.397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	0.0	2.0	3.7	0.0	0.0	2.0	0.0	0.7
		Wind.2035.396	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	3.0	3.0	3.0	3.7	3.0	3.0	3.0	3.0	3.7
FIRM CAPACITY	IMIVV	Wind:2037:395	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.7	3.8	3.8	3.8	3.8	3.7
FIRM CAPACITY	MW	Wind:2039:394	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	3.8	3.8	3.8	3.8	3.7
FIRM CAPACITY	MW	Wind:2041:393	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.8	3.7
FIRM CAPACITY	MW	Wind:2042:392	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.8	3.8	3.7
FIRM CAPACITY	MW	Wind:2044:390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7
FIRM CAPACITY	MW	Wind 2044:391	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	37
			0.0	0.0	0.0	010	0.0	0.0	0.0	0.0	0.0	0.0	010	0.0	010	0.0	0.0	010	0.0	010	0.0	0
MAXIMUM CAPACITY	MW	CROD OFF	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
	N/N/		216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
			210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
	IVIVV	OVVEF	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
	MVV	Wind:2025:400	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2028:399	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2031:398	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2032:397	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2035:396	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2037:395	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind 2039 394	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0
	MM	Wind:2041:393	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0
	N/\A/	Wind:2042:302	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	20.0	25.0	25.0	25.0
		Wind:2042:392	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.0	23.0	25.0
	IVIVV	Wind:2044:390	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0
	IVIVV	Wind:2044:391	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0
		~~~~																				
ENERGY TAKEN OR SOLD	GWH	CROD OFF	1,040	1,052	1,062	1,036	1,050	1,064	1,039	1,010	1,028	1,040	1,014	1,024	1,004	1,021	997	1,006	988	962	976	914
ENERGY TAKEN OR SOLD	GWH	CROD ON	621	624	628	614	617	625	614	604	605	606	594	599	589	592	581	585	573	562	567	535
ENERGY TAKEN OR SOLD	GWH	OWEF	12	13	14	13	14	15	14	13	15	15	15	15	15	15	15	15	15	15	16	14
ENERGY TAKEN OR SOLD	GWH	Wind:2025:400	71	71	71	71	71	71	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind 2028 399	0	0	0	71	71	71	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2031:398	0 0	0 0	õ	0	0	0	71	72	71	71	71	71	71	71	71	72	71	71	71	71
	CWL	Wind:2001:000	0	0	0	0	0	0	0	72	71	71	71	71	71	71	71	72	71	71	71	71
	GWH CW/U	Wind 2025-200	0	0	0	0	0	0	0	12	0	0	71	71	74	71	74	70	74	71	74	71
ENERGY TAKEN OR SOLD	GWH	wind:2035:396	U	U	U	U	U	U	0	U	U	U	/1	/1	/1	/1	/1	72	71	71	/1	/1
ENERGY TAKEN OR SOLD	GWH	Wind:2037:395	0	0	0	0	0	0	0	0	0	0	0	0	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2039:394	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2041:393	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2042:392	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2044:390	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
ENERGY TAKEN OR SOLD	GWH	Wind:2044:391	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71
	0.000		U U	J	U U	J.	J.	v	v	U U	v	J.	J.	0	J.	J.	v	v	0	0	U U	
CAPACITY FACTOR	%	OWEE	28 15%	30 72%	32 7/1%	30 10%	32 26%	35 0.0%	32 10%	30 36%	33 1/0/	34 83%	33 13%	34 95%	33 0/%	34 99%	33 00%	35 2/1%	34 8/1%	33 / 7%	35 61%	32 / 10/
	/0		20.13/0	JU.1 Z /0	52.14/0	50.1070	02.20/0	00.00 /0	JZ.+U /0	50.5070	00.14/0	000/0	00.10/0	JT.JJ /0	00.04/0	JT.JJ/0	00.3370	00.24 /0	04.04/0	JJ.+1 /0	00.0170	JZ.+1/0

#### Rochester Public Utilities Project 49188 - Infrastructure Update

	SMMPA Contract Extension Analysis																					
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
CAPACITY FACTOR	%	Wind:2025:400	32.53%	32.65%	32.57%	32.51%	32.61%	32.56%	32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2028:399				32.51%	32.61%	32.56%	32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2031:398							32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2032:397								32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2035:396											32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2037:395													32 65%	32 57%	32 55%	32 57%	32 56%	32 53%	32 65%	32 55%
CAPACITY FACTOR	%	Wind:2039:394															32 55%	32 57%	32 56%	32 53%	32 65%	32 55%
CAPACITY FACTOR	%	Wind:2041:393															02.0070	02101.70	32 56%	32 53%	32 65%	32 55%
CAPACITY FACTOR	%	Wind:2042:392																	02.0070	32 53%	32 65%	32 55%
	%	Wind:2044:390																		02.0070	02.0070	32.55%
	%	Wind:2044:391																				32.55%
	70	Wind.2044.001																				02.0070
CROD OFF PEAK ENERGY RATE	\$/MWH	CROD OFF	\$44.39	\$45.05	\$45.73	\$46.42	\$47.11	\$47.82	\$48.54	\$49.27	\$50.00	\$50.75	\$51.52	\$52.29	\$53.07	\$53.87	\$54.68	\$55.50	\$56.33	\$57.17	\$58.03	\$58.90
CROD ON PEAK ENERGY RATE	\$/MWH	CROD ON	\$58.58	\$59.46	\$60.35	\$61.25	\$62.17	\$63.10	\$64.05	\$65.01	\$65.99	\$66.98	\$67.98	\$69.00	\$70.03	\$71.09	\$72.15	\$73.23	\$74.33	\$75.45	\$76.58	\$77.73
CROD TRANSMISSION CHARGE	\$/KW-MO	CROD	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66
CROD DEMAND CHARGE	\$/KW-MO	CROD	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66
	•			•••••		•	+			+		•••••			•••••				••••••			•••••
CROD OFF PEAK ENERGY COST	\$000	CROD OFF	\$46,145	\$47,382	\$48,581	\$48,102	\$49,459	\$50,876	\$50,413	\$49,780	\$51,417	\$52,781	\$52,216	\$53,567	\$53,310	\$54,980	\$54,510	\$55,851	\$55,647	\$55,015	\$56,629	\$53,863
CROD ON PEAK ENERGY COST	\$000	CROD ON	\$36,389	\$37,112	\$37,871	\$37,614	\$38,386	\$39,431	\$39,341	\$39,287	\$39,904	\$40,566	\$40,374	\$41,298	\$41,276	\$42,094	\$41,927	\$42,835	\$42,611	\$42,422	\$43,448	\$41,578
CROD TRANSMISSION CHARGE	\$000	CROD	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895
CROD DEMAND CHARGE	\$000	CROD	\$27.566	\$27.613	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631	\$27.631
TOTAL COST OR REVENUE	\$000	Wind:2025:400	\$4.986	\$5.005	\$4.992	\$4.998	\$4,999	\$4.992	\$4.986	\$5.018	\$4.990	\$4.986	\$4.999	\$4,999	\$5.005	\$4,992	\$4.990	\$5.007	\$4.992	\$4.986	\$5.005	\$5.004
TOTAL COST OR REVENUE	\$000	Wind:2028:399	\$0	\$0	\$0	\$4.998	\$4,999	\$4,992	\$4,986	\$5.018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5.007	\$4,992	\$4,986	\$5.005	\$5.004
TOTAL COST OR REVENUE	\$000	Wind:2031:398	\$0	\$0	\$0	\$0	\$0	\$0	\$4,986	\$5.018	\$4,990	\$4,986	\$4,999	\$4,999	\$5.005	\$4,992	\$4,990	\$5.007	\$4,992	\$4,986	\$5.005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2032:397	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5.018	\$4,990	\$4,986	\$4,999	\$4,999	\$5.005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5.005	\$5.004
TOTAL COST OR REVENUE	\$000	Wind:2035:396	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2037:395	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$5,005	\$4 992	\$4 990	\$5,007	\$4 992	\$4 986	\$5,005	\$5,004
	\$000	Wind:2039:394	\$0 \$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0,000 \$0	\$0	\$4,990	\$5,007	\$4 992	\$4 986	\$5,005	\$5,004
	\$000	Wind:2001:393	Φ0 \$0	\$0 \$0	Φ0 \$0	Φ0 \$0	φ0 \$0	φ0 \$0	φ0 \$0	φ0 \$0	φ0 \$0	Φ0 0.2	φ0 \$0	Φ0 \$0	φ0 0.2	φ0 \$0	\$0	\$0,007 \$0	\$1 002	\$1 986	\$5,005	\$5,004 \$5,004
	\$000	Wind:2042:392	Φ0 \$0	\$0 \$0	Φ0 \$0	Φ0 \$0	φ0 \$0	φ0 \$0	φ0 \$0	φ0 \$0	φ0 \$0	Φ0 0.2	φ0 \$0	Φ0 \$0	φ0 0.2	φ0 \$0	φ0 \$0	\$0 \$0	\$0	\$1 986	\$5,005	\$5,004 \$5,004
	\$000	Wind:2044:392	φ0 ¢0	\$0 \$	\$0 \$0	\$0 \$0	\$0 ¢0	\$0 \$0	\$0 \$	\$0 \$0	φ0 ¢0	\$0 \$0	\$0 \$0	\$0 \$	\$0 ¢0	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$4,900 ¢0	\$3,003 ¢0	\$5,004 \$5,004
	\$000 \$000	Wind:2044:390	ψ0 Φ0	Ψ0 \$0	Φ0 Φ0	φ0 \$0	\$0 \$0	Ψ0 \$0	Ψ0 \$0	Ψ0 \$0	φ0 \$0	Ψ0 \$0	φ0 \$0	φ0 \$0	Φ0 \$0	Ψ0 \$0	Ψ0 \$0	φ0 ©Φ	\$0 \$0	φ0 \$0	Ψ0 \$0	\$5,004 \$5,004
TOTAL COST OR REVENUE	\$000	VVIII0.2044.391	20	φU	ΦU	<b>Ф</b> О	<b>Ф</b> О	<b>Ф</b> О	<b>4</b> 0	ΦU	<b>4</b> 0	<b>Ф</b> О	<b>Ф</b> О	<b>4</b> 0	<b>Ф</b> О	<b>4</b> 0	<b>Ф</b> О	<b>Ф</b> О	<b>Ф</b> О	<b>4</b> 0	ΦU	<b>Φ</b> 3,004
PERCENT RENEWABLE ENERGY	%		35%	34%	32%	47%	46%	45%	55%	62%	60%	58%	64%	62%	67%	65%	69%	67%	71%	73%	72%	76%
SYSTEM CO2 EMISSIONS (EXCL MKT)	TONS	RPU PLUS CROD	1,336,536	1,353,477	1,365,777	1,333,324	1,349,605	1,372,057	1,341,998	1,310,975	1,330,176	1,342,064	1,313,470	1,330,744	1,307,508	1,324,292	1,298,742	1,313,202	2 1,290,834	1,260,70	1,281,145	5 1,204,330
TOTAL CO2 EMISSIONS (EXCL MKT)	TONS		26,360,963																			
RPU FIXED O&M COST	\$000		\$6 254	\$6 394	\$6 30/	\$6 30/	\$6 394	\$6 534	\$6 534	\$6 534	\$6 673	\$6 673	\$6 673	\$6.813	\$6.813	\$6.813	\$6.953	\$6.953	\$6.053	\$6.053	\$7 003	\$7 093
	\$000		ψ0,204 ¢1 642	\$0,094 \$2,006	\$0,394 \$2,296	\$0,334 \$3,396	\$0,094 \$2,006	\$0,004	\$0,004	\$4,020	\$0,073 \$6,572	\$0,073 \$6,572	\$0,073 \$6,572	\$0,015 \$0.015	\$0,015 \$0.015	\$0,015 \$0.015	\$0,955 ¢0,959	\$0,955 \$0,955	\$0,955 ¢0.959	\$0,955 \$0,955	\$7,095 \$11,501	\$7,055 \$11 501
	\$000 \$000		\$1,045 \$24.464	\$3,200 \$34,500	\$3,200 \$34,505	\$3,200 \$34,505	\$3,200 €24,525	\$4,929 \$24,525	\$4,929 \$24,525	94,929 ¢24,525	\$0,572 \$24 525	\$0,57Z	\$0,572 \$24 FOF	Φ0,210 Φ04 505	\$0,210 €04 505	Φ0,210 Φ04 505	\$9,000 \$24,505	\$9,000 \$24,505	\$9,000 \$24,505	\$9,000 \$24,505	\$11,501 \$24,505	\$11,501 \$24,505
	\$000		\$34,401	\$34,506	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525 \$47,774	\$34,525 ¢47,774	\$34,525	\$34,525 \$40,552	\$34,525 \$40,552	\$34,525	\$34,323	\$34,323 \$54,326	\$34,525 \$51,226	\$34,323 \$54,326	\$34,525	\$34,525 \$52,110
TOTAL FIXED COST	\$000		<b>\$42,300</b>	<b></b> 44,100	\$44,205	\$44,205	\$44,205	<b>\$4</b> 3,900	<b>\$4</b> 3,900	<b>\$4</b> 5,900	\$47,771	\$4 <i>1</i> ,771	<b>Φ47,77</b> Τ	<b>\$</b> 49,555	\$49,000	\$49,000	901,000	901,330	901,330	901,000	\$03,119	\$53,119
RPU VARIABLE O&M COST	\$000		\$5,403	\$5,535	\$5,541	\$10,536	\$10,576	\$10,674	\$15,625	\$20.727	\$20.731	\$20,724	\$25.785	\$25,890	\$30,917	\$30,869	\$35.907	\$36.058	\$40.956	\$45.878	\$46.160	\$56,114
RPU FUEL COST	\$000		\$3,219	\$3,846	\$4,098	\$4,105	\$4,463	\$5,129	\$5,052	\$5,075	\$5,791	\$6,109	\$6,361	\$7,148	\$7,253	\$7,694	\$8,125	\$8,764	\$9,121	\$9,116	\$10.169	\$9,980
RPU CO2 EMISSIONS COST	\$000		\$2,046	\$2,391	\$2,608	\$2,660	\$2,989	\$3,436	\$3,417	\$3,492	\$3,996	\$4,317	\$4,518	\$5,104	\$5,260	\$5,693	\$6,167	\$6,829	\$7,306	\$7,516	\$8,515	\$8,490
MARKET ENERGY COST	\$000		\$28,287	\$29.792	\$32,754	\$32,719	\$36.032	\$38.001	\$36,482	\$35.355	\$38,295	\$42,496	\$42.291	\$44,249	\$43.953	\$47.336	\$46.855	\$51,910	\$52,661	\$53,173	\$56.272	\$53,107
CROD ENERGY COST	\$000		\$82.534	\$84,494	\$86,451	\$85,716	\$87.845	\$90.307	\$89.755	\$89.066	\$91.321	\$93.347	\$92,591	\$94,865	\$94,586	\$97.074	\$96,437	\$98,686	\$98,258	\$97,436	\$100.077	\$95,441
CROD CO2 EMISSIONS COST	\$000		\$62,108	\$65,283	\$69,779	\$72,006	\$76.637	\$80,259	\$81,129	\$83,032	\$87,786	\$92,311	\$92,679	\$97,363	\$99,340	\$105 548	\$109 421	\$115 299	\$119 196	\$122 337	\$129 848	\$127 599
TOTAL VARIABLE COST	\$000		\$183.597	\$191.341	\$201.230	\$207.742	\$218.544	\$227.806	\$231,460	\$236.748	\$247,919	\$259.304	\$264.224	\$274.618	\$281.311	\$294,213	\$302.911	\$317.546	\$327,498	\$335,456	\$351.042	\$350.732
TOTAL COST	\$000		\$225 955	\$235 529	\$245 435	\$251 947	\$262 749	\$273 794	\$277 448	\$282 736	\$295 690	\$307 075	\$311 995	\$324 172	\$330 864	\$343 766	\$354 247	\$368 882	\$378 834	\$386 792	\$404 161	\$403 851
NPV @ 6.0%	\$000		\$3,387 527	<i><b>\$</b>200,020</i>	<i><b>4</b></i> 10, 100	<i>4_01,011</i>	<i><i><i>vL</i>0<i>L</i>,<i>i i</i>0</i></i>	Ψ <b>2</b> 10,104	Ψ=11,110	<i><b>QLOL</b>, 100</i>	<i><b>4</b>200,000</i>	<i><b>4001</b>,010</i>	\$011,000	<i>402</i> 1,172	\$000,00 <del>1</del>	<i>40</i> 10,1 00	φ00 i,2 fi	\$000,00 <u>2</u>		9000,10Z	φισι, ι <b>σ</b> ι	÷ 100,001
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APPENDIX B - Contract Extension Analysis Detailed Production Cost Output

Project 49188 - Infrastructure Update SMMPA Contract Extension Analysis																						
Data Item ENERGY REQUIREMENTS PEAK DEMAND	Units GWH MW	Description RPU RPU	2025 1,897 364.7	2026 1,926 369.6	2027 1,954 374.4	2028 1,983 379.3	2029 2,011 384.1	2030 2,040 389.0	2031 2,069 394.0	2032 2,099 399.1	S 2033 2,130 404.3	2034 2,161 409.6	2035 2,193 414.9	2036 2,224 420.2	2037 2,257 425.7	2038 2,290 431.2	2039 2,323 436.8	2040 2,357 442.5	2041 2,391 448.2	2042 2,426 454.0	2043 2,461 459.9	2044 2,497 465.8
ECONOMY INTERCHANGE PURCHASE ENER ECONOMY INTERCHANGE PURCHASE COST	С \$000		96 \$30,490	106 \$34,347	\$37,608	131 \$42,688	141 \$47,759	145 \$52,834	625 \$43,514	635 \$45,740	653 \$48,735	\$52,319	\$55,132	\$55,069	677 \$58,191	620 \$54,925	606 \$55,791	622 \$60,183	604 \$58,828	\$62,214	593 \$60,039	607 \$63,769
FIRM CAPACITY	MW	7FA Combined Cycle :2031:700	0.0	0.0	0.0	0.0	0.0	0.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0
FIRM CAPACITY	MW	Cascade Creek1	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
FIRM CAPACITY	MW	Cascade Creek2	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
FIRM CAPACITY	MW	Lake Zumbro	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
FIRM CAPACITY	MW	Market Firm Purchases	0.0	3.4	9.0	14.6	20.2	25.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FIRM CAPACITY	MW	Silver Lake1	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
FIRM CAPACITY	MW	Silver Lake2	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
FIRM CAPACITY	MW	Silver Lake3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
FIRM CAPACITY	MW	Silver Lake4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
FIRM CAPACITY	MW	Wartsila:2041:699	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2043:698	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8
GENERATION	GWH	7FA Combined Cycle :2031:700	0	0	0	0	0	0	859	875	889	903	920	901	918	869	847	862	908	931	976	996
GENERATION	GWH	Cascade Creek1	2	2	2	4	5	6	5	5	6	6	6	6	6	5	5	5	5	5	5	5
GENERATION	GWH	Cascade Creek2	26	27	28	29	30	32	14	15	15	15	15	15	15	15	14	14	14	14	13	14
GENERATION	GWH	Lake Zumbro	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
GENERATION	GWH	Market Firm Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENERATION	GWH	Silver Lake1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
GENERATION	GWH	Silver Lake2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	1	2
GENERATION	GWH	Silver Lake3	7	7	8	6	6	6	5	5	5	5	5	5	5	5	4	5	4	5	4	4
GENERATION	GWH	Silver Lake4	8	8	8	8	9	9	7	7	8	8	8	8	8	7	7	7	7	7	7	7
GENERATION	GWH	Wartsila:2041:699	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	11	11
GENERATION	GWH	Wartsila:2043:698	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	12
CAPACITY FACTOR	%	7FA Combined Cycle :2031:700							29.71%	30.18%	30.76%	31.22%	31.81%	31.08%	31.76%	30.08%	29.31%	29.72%	31.40%	32.21%	33.75%	34.37%
CAPACITY FACTOR	%	Cascade Creek1	0.70%	0.76%	0.86%	1.75%	2.30%	2.40%	2.15%	2.20%	2.33%	2.36%	2.41%	2.34%	2.41%	2.25%	2.19%	2.25%	2.08%	2.13%	1.94%	1.96%
CAPACITY FACTOR	%	Cascade Creek2	6.15%	6.54%	6.71%	6.78%	7.15%	7.58%	3.40%	3.46%	3.51%	3.56%	3.64%	3.59%	3.63%	3.45%	3.30%	3.36%	3.21%	3.32%	3.17%	3.24%
CAPACITY FACTOR	%	Lake Zumbro	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%
CAPACITY FACTOR	%	Market Firm Purchases	#DIV/0!	0.00%	0.00%	0.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
CAPACITY FACTOR	%	Silver Lake1	0.73%	0.74%	0.92%	0.82%	0.94%	1.17%	1.59%	1.63%	1.69%	1.70%	1.75%	1.70%	1.75%	1.64%	1.58%	1.61%	1.49%	1.59%	1.47%	1.53%
CAPACITY FACTOR	%	Silver Lake2	0.42%	0.44%	0.49%	0.50%	0.48%	0.50%	1.33%	1.36%	1.42%	1.43%	1.48%	1.45%	1.50%	1.40%	1.35%	1.37%	1.27%	1.32%	1.21%	1.24%
CAPACITY FACTOR	%	Silver Lake3	3.32%	3.43%	3.59%	2.87%	2.67%	2.82%	2.26%	2.31%	2.25%	2.28%	2.34%	2.30%	2.36%	2.20%	2.14%	2.15%	2.07%	2.15%	2.01%	2.07%
CAPACITY FACTOR	%	Silver Lake4	1.97%	2.02%	2.08%	2.11%	2.19%	2.33%	1.81%	1.85%	1.92%	1.94%	1.99%	1.94%	2.01%	1.88%	1.84%	1.87%	1.78%	1.84%	1.71%	1.75%
CAPACITY FACTOR	%	Wartsila:2041:699																	6.88%	7.09%	7.14%	7.13%
CAPACITY FACTOR	%	Wartsıla:2043:698																			7.93%	7.94%
TOTAL O AND M COST	\$000 \$000	7FA Combined Cycle :2031:700	\$0	\$0 \$47	\$0 \$00	\$0 \$40	\$0	\$0 \$55	\$10,103	\$10,177	\$10,244	\$10,306	\$10,385	\$10,298	\$10,379	\$10,152	\$10,049	\$10,116	\$10,330	\$10,438	\$10,645	\$10,742
	\$000		\$10	\$17	\$20	\$40	\$53	\$00 \$010	\$49 \$400	\$51	\$53	\$54 \$4.45	\$55	\$54 \$4.47	\$00 #4.40	\$52	\$50	\$5Z	\$48 \$404	\$49	\$45 \$400	\$45 \$400
	\$000		\$251	\$267	\$274	\$278	\$292	\$310	\$139	\$142	\$144	\$145	\$149	\$147	\$149	\$141	\$135	\$138	\$131	\$136	\$130	\$133
	\$000	Lake Zumbro	\$19 ¢0	\$19	\$19	\$19	\$19 \$1.454	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19 ©0
	\$000	Narket Firm Purchases	\$U \$CO0	\$246 ¢coo	\$648 ¢coo	\$1,050	\$1,451	\$1,853	\$U \$C20	\$U \$C20	\$U \$C20	\$U \$COO	\$U ¢c20	\$U \$C20	\$U \$COO	\$U ¢cao	\$U \$C20	\$U \$C20	\$U \$C20	\$U ¢cao	\$U \$C20	<b>ФСОО</b>
	\$000	Silver Lake1	\$628 \$004	\$628 \$004	\$628 \$004	\$628 \$004	\$628 \$004	\$629 \$004	\$630 \$607	\$630 \$600	\$630	\$630	\$630	\$630	\$630 \$000	\$630	\$630	\$630 \$000	\$630	\$630	\$630	\$630 ¢007
	\$000	Silver Lake2	\$924 \$4.000	\$924 \$4.000	\$924	\$924 \$4.000	\$924 \$4.500	\$924 \$4.500	\$927 \$4 500	\$928	\$928 \$4 500	\$928 \$4 FOC	\$928 ¢4 500	\$928 \$4 500	\$928 \$4 500	\$928 ¢4 505	\$928 \$4.505	\$928 \$4 505	\$927 \$4 505	\$927 ¢4 505	\$927 \$4 504	\$927 ¢4 505
	\$000 ¢000	Silver Lake3	\$1,602 \$2,090	\$1,603	\$1,604	\$1,600	\$1,598	\$1,599	\$1,596	\$1,596	\$1,596	\$1,596	\$1,596	\$1,596	\$1,590 ¢2,090	\$1,595	\$1,595	\$1,595	\$1,595	\$1,595 \$2,097	\$1,594 \$2,096	\$1,595 \$2,096
	\$000 ¢000	Silver Lake4	\$2,909 ¢0	\$2,909 ¢0	\$2,990 ¢0	\$2,990 ¢0	\$2,991 ¢0	\$2,993 ¢0	⊅2,907 ©0	⊅∠,907 ¢0	\$2,900 ¢0	⊅2,900 ©0	\$2,909 ¢0	⊅2,900 ©0	\$∠,909 ¢0	\$2,900 ¢0	\$2,907 ¢0	⊅∠,900 ¢0	\$2,900 \$225	⊅∠,907 ¢000	\$2,900 €220	⊅∠,900 ¢000
	\$000 ¢000	Warteila:2042:609	<b>ቅ</b> ሀ ድር	ΦU ΦO	\$U	\$U	ΦU ΦO	ΦU ΦO	\$0 \$0	\$0 \$0	ΦU ΦO	\$U	\$U	\$U \$0	\$0 \$0	\$U \$0	\$U \$0	\$U	\$225 ¢0	Φ220 Φ0	Φ220 ¢000	\$220 \$220
TOTAL O AND M COST	\$000	Wansila:2043:698	<b>\$</b> U	<b>\$</b> 0	<b>2</b> 0	<b>Ф</b> О	<b>Ф</b> О	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>2</b> 0	20	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>Ф</b> О	<b>2</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>Ф</b> О	\$238	\$238
	\$/MWH	7FA Combined Cycle :2031:700	\$0.00 \$0.72	\$0.00 \$0.72	\$0.00 \$0.72	\$0.00 \$0.72	\$0.00 \$0.72	\$0.00 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72	\$4.64 \$0.72
			Φ9.72 Φ0.72	Φ9.72 ¢0.72	\$9.72 ¢0.72	Φ9.72 Φ0.72	99.72 \$0.72	Φ9.72 ¢0.72	Φ9.72 Φ0.72	\$9.72 \$0.72	\$9.72 ¢0.72	Φ9.72 ¢0.72	\$9.7Z	Φ9.72 Φ0.72	\$9.72 \$0.72	\$9.72 ¢0.72	Φ9.72 Φ0.72	\$9.72 ¢0.72	\$9.72 \$0.72	\$9.72 ¢0.72	Φ9.72 ¢0.72	Φ9.72 Φ0.70
			Φ9.72 Φ2.00	\$9.72 \$2.00	\$9.7Z	\$9.7Z	\$9.72 \$2.00	Φ9.72 Φ2.00	\$9.7Z	\$9.7Z	\$9.7Z	\$9.7Z	\$9.7Z	\$9.72 \$2.00	\$9.7Z	\$9.7Z	\$9.72 \$2.00	\$9.7Z	\$9.72 \$2.00	\$9.7Z	\$9.72 \$2.00	\$9.7Z
		Silver Lake	\$2.99 \$2.00	φ2.99 ¢2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 ¢2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 ¢2.00	\$2.99 \$2.00	\$2.99 ¢2.00						
	φ/IVIV/Π \$/[\/\/\/⊔	Silver Lake?	Ψ∠.JJ \$2.00	ψ∠.ઝઝ \$2.00	Ψ2.99 \$2.00	Ψ∠.ઝઝ \$2.00	Ψ∠.୬୬ \$2.00	ψ∠.ઝઝ \$2.00	ψ∠.ઝઝ ¢ጋ Ω∩	ψ∠.ઝઝ ¢ጋ ΩΩ	ψ∠.ઝઝ \$2.00	ψ∠.ઝઝ \$2.00	Ψ∠.ઝઝ \$2.00	ψ∠.ઝઝ \$2.00	ψ∠.ઝઝ \$2.00	ψ∠.99 \$2.00	ψ∠.ઝઝ \$2.00	ψ∠.ઝઝ ¢ጋ ΩΩ	ψ∠.ઝઝ \$2.00	Ψ2.99 \$2.00	Ψ∠.99 \$2.00	Ψ2.99 \$2.00
	Φ/IVIVΓΠ Φ/ΝΛΛ/⊔	Silver Lakes	ψ∠.ສສ ¢2.00	φ2.33 \$2.00	⊕∠.୬୬ ¢୨.୦୦	⊕∠.୬୬ ¢2.00	92.33 \$2.00	φ∠.33 ¢2.00	⊕∠.∀∀ ¢ാ.∩∩	⊕∠.∀∀ ¢ २ ∩ ^	⊕∠.99 ¢0.00	92.99 ¢2.00	Φ∠.33 \$2.00	⊕∠.∀∀ ¢ാ.∩∩	⊕∠.ઝઝ ¢.2.00	⊕∠.99 ¢2.00	⊕∠.99 ¢0.00	φ∠.∀∀ ¢ 2 00	92.99 ¢2.00	⊕2.99 ¢2.00	92.99 \$2.00	⊕∠.99 ¢2.00
	φ/1VIV/Π \$/λ/λ/⊔	Warteila:20/1:600	Ψ∠.33 \$0.00	Ψ∠.୬୬ \$0.00	Ψ2.99 \$0.00	ቀ∠.୬୬ \$በ በበ	Ψ∠.୬୬ \$0.00	Ψ∠.୬୬ \$0.00	ቀ∠.୬୬ \$0.00	Ψ∠.ઝઝ ¢0 00	ቃ∠.୬୬ \$0.00	ቀ∠.୬୬ \$0.00	ቀ∠.୭୬ \$∩ ∩∩	ቀ∠.୬୬ \$0.00	Ψ∠.୬୬ \$0.00	ቀ∠.୬୬ \$0.00	ቃ∠.୬୬ \$0.00	Ψ2.99 \$0.00	ψ∠.99 \$8 10	Ψ∠.ઝઝ ¢8 ∕10	Ψ∠.99 \$8 10	Ψ2.99 \$8 10
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2043:698	\$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	\$0.00 \$0.00	φ0.4∠ \$0.00	φ0.4∠ \$0.00	_{⊅0.4∠} \$8.42	_{⊅0.4∠} \$8.42							
EIXED O AND M COST	\$000	7EA Combined Cycle ·2031·700	\$0	\$0	\$0	\$0	\$0	\$0	\$6 112	\$6 118	\$6 112	\$6.118	\$6 118	\$6 112	\$6 118	\$6 112	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 11 <b>2</b>
FIXED O AND M COST	\$000	Cascade Creek1	\$0	\$0 \$0	\$0 \$0	\$0 \$0	φ0 \$0	\$0 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	φ0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0
FIXED O AND M COST	\$000	Cascade Creek2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FIXED O AND M COST	\$000	Lake Zumbro	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
FIXED O AND M COST	\$000	Market Firm Purchases	\$0	\$246	\$648	\$1.050	\$1 451	\$1 853	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FIXED O AND M COST	\$000	Silver Lake1	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626
FIXED O AND M COST	\$000	Silver Lake2	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923

Project 49188 - Infrastructure Update SMMPA Contract Extension Analysis																						
Data Item FIXED O AND M COST FIXED O AND M COST FIXED O AND M COST FIXED O AND M COST	Units \$000 \$000 \$000 \$000	Description Silver Lake3 Silver Lake4 Wartsila:2041:699 Wartsila:2043:698	2025 \$1,582 \$2,965 \$0 \$0	2026 \$1,582 \$2,965 \$0 \$0	2027 \$1,582 \$2,965 \$0 \$0	S 2028 \$1,582 \$2,965 \$0 \$0	MMPA C 2029 \$1,582 \$2,965 \$0 \$0	ontract E: 2030 \$1,582 \$2,965 \$0 \$0	xtension 2031 \$1,582 \$2,966 \$0 \$0	Analysis 2032 \$1,582 \$2,965 \$0 \$0	2033 \$1,582 \$2,965 \$0 \$0	2034 \$1,582 \$2,965 \$0 \$0	2035 \$1,582 \$2,965 \$0 \$0	2036 \$1,582 \$2,965 \$0 \$0	2037 \$1,582 \$2,965 \$0 \$0	2038 \$1,582 \$2,965 \$0 \$0	2039 \$1,582 \$2,965 \$0 \$0	2040 \$1,582 \$2,965 \$0 \$0	2041 \$1,582 \$2,965 \$140 \$0	2042 \$1,582 \$2,965 \$140 \$0	2043 \$1,582 \$2,965 \$140 \$140	2044 \$1,582 \$2,965 \$140 \$140
ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000	7FA Combined Cycle :2031:700 Wartsila:2041:699 Wartsila:2043:698	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$0 \$0	\$31,593 \$1,643 \$0	\$31,593 \$1,643 \$0	\$31,593 \$1,643 \$1,643	\$31,593 \$1,643 \$1,643
TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	7FA Combined Cycle :2031:700 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2041:699 Wartsila:2043:698	\$0 \$133 \$1,511 \$51 \$45 \$496 \$558 \$0 \$0	\$0 \$149 \$1,665 \$53 \$49 \$527 \$588 \$0 \$0	\$0 \$175 \$69 \$56 \$568 \$625 \$0 \$0 \$0	\$0 \$366 \$1,835 \$63 \$58 \$469 \$654 \$0 \$0 \$0	\$0 \$487 \$1,957 \$74 \$58 \$449 \$697 \$0 \$0	\$0 \$515 \$2,108 \$95 \$62 \$488 \$763 \$0 \$0 \$0	\$41,717 \$490 \$1,018 \$133 \$170 \$403 \$612 \$0 \$0 \$0	\$43,414 \$514 \$1,062 \$141 \$180 \$425 \$645 \$0 \$0 \$0	\$45,112 \$556 \$1,100 \$193 \$426 \$688 \$0 \$0 \$0	\$46,854 \$577 \$1,141 \$156 \$201 \$445 \$717 \$0 \$0	\$48,824 \$605 \$1,196 \$164 \$213 \$469 \$757 \$0 \$0	\$49,067 \$602 \$1,209 \$165 \$216 \$476 \$763 \$0 \$0 \$0	\$51,130 \$633 \$1,251 \$175 \$229 \$503 \$812 \$0 \$0	\$49,641 \$604 \$1,216 \$168 \$220 \$483 \$781 \$0 \$0	\$49,488 \$601 \$1,189 \$168 \$219 \$482 \$786 \$0 \$0 \$0	\$51,531 \$637 \$1,243 \$176 \$229 \$500 \$827 \$0 \$0	\$55,347 \$601 \$1,208 \$168 \$219 \$497 \$807 \$705 \$0	\$58,054 \$629 \$1,278 \$183 \$234 \$530 \$861 \$744 \$0	\$61,991 \$586 \$1,246 \$175 \$221 \$511 \$825 \$766 \$849	\$64,767 \$608 \$1,311 \$188 \$233 \$542 \$873 \$787 \$874
CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	TONS TONS TONS TONS TONS TONS TONS TONS	7FA Combined Cycle :2031:700 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2041:699 Wartsila:2043:698 CROD	0 1,504 16,911 878 781 8,524 9,598 0 0 1,293,916	0 1,631 17,980 891 810 8,789 9,803 0 0 1,305,657	0 1,849 18,464 1,110 911 9,196 10,117 0 0 1,316,574	0 3,783 18,702 995 918 7,380 10,293 0 0 1,326,583	0 4,955 19,680 1,126 892 6,858 10,649 0 0 1,338,328	0 5,161 20,850 1,407 915 7,239 11,309 0 0 1,353,302	377,647 4,627 9,366 1,917 2,442 5,801 8,800 0 0 0	383,721 4,745 9,539 1,969 2,510 5,935 9,017 0 0 0	389,462 5,005 9,664 2,031 2,618 5,781 9,335 0 0 0	394,930 5,067 9,781 2,049 2,641 5,855 9,438 0 0 0	402,005 5,188 10,015 2,103 2,726 6,002 9,676 0 0 0	394,825 5,045 9,901 2,053 2,688 5,912 9,478 0 0 0	401,597 5,183 9,999 2,108 2,758 6,061 9,790 0 0 0	381,301 4,837 9,500 1,972 2,580 5,654 9,139 0 0 0	371,767 4,706 9,088 1,906 2,491 5,479 8,934 0 0 0	378,037 4,861 9,280 1,939 2,531 5,521 9,121 0 0 0	396,624 4,481 8,842 1,798 2,347 5,321 8,641 5,465 0 0	406,099 4,578 9,132 1,908 2,432 5,515 8,957 5,637 0 0	423,435 4,166 8,718 1,764 2,230 5,165 8,336 5,672 6,306 0	431,767 4,222 8,949 1,848 2,284 5,319 8,558 5,686 6,329 0
NOx NOx NOx NOx NOx NOx NOx NOx NOx	TONS TONS TONS TONS TONS TONS TONS TONS	7FA Combined Cycle :2031:700 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2041:699 Wartsila:2043:698	0 1 14 2 2 18 20 0	0 1 15 2 2 18 20 0 0	0 1 15 2 19 21 0 0	0 3 15 2 2 15 21 0 0	0 4 16 2 2 14 22 0 0	0 4 17 3 2 15 23 0 0	22 4 8 4 5 12 18 0 0	23 4 8 4 5 12 19 0 0	23 4 8 4 5 12 19 0 0	23 4 8 4 5 12 19 0 0	24 4 8 4 6 12 20 0 0	23 4 8 4 6 12 19 0 0	24 4 8 4 6 12 20 0 0	23 4 8 4 5 12 19 0 0	22 4 8 4 5 11 18 0 0	22 4 8 4 5 11 19 0 0	24 3 7 4 5 11 18 1 0	24 4 8 4 5 11 18 1 0	25 3 7 4 5 11 17 1 1	26 3 7 4 5 11 18 1 1
SO2 SO2 SO2 SO2 SO2 SO2 SO2 SO2 SO2 SO2	TONS TONS TONS TONS TONS TONS TONS TONS	7FA Combined Cycle :2031:700 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4 Wartsila:2041:699 Wartsila:2043:698	0 0 7 6 65 73 0 0	0 0 7 6 67 75 0 0	0 0 8 7 70 77 0 0	0 0 8 7 56 78 0 0	0 0 9 7 52 81 0 0	0 0 11 7 55 86 0 0	0 0 15 19 44 67 0	0 0 15 19 45 69 0 0	0 0 15 20 44 71 0 0	0 0 16 20 45 72 0 0	0 0 16 21 46 74 0 0	0 0 16 20 45 72 0 0	0 0 16 21 46 74 0 0	0 0 15 20 43 70 0	0 0 15 19 42 68 0 0	0 0 15 19 42 69 0 0	0 0 14 18 40 66 0 0	0 0 15 18 42 68 0 0	0 0 13 17 39 63 0 0	0 0 14 17 40 65 0 0
SYSTEM EFFLUENT EXPENSE SYSTEM EFFLUENT EXPENSE SYSTEM EFFLUENT EXPENSE THEORETICAL CROD EFFLUENT EXPENSE	\$0 \$0 \$0 \$000	NOx SO2 CO2 CO2	\$0 \$0 \$1,833 \$62,108	\$0 \$0 \$1,995 \$65,283	\$0 \$0 \$2,207 \$69,778	\$0 \$0 \$2,356 \$74,289	\$0 \$0 \$2,605 \$78,961	\$0 \$0 \$2,860 \$82,551	\$0 \$0 \$25,868 \$0	\$0 \$0 \$27,551 \$0	\$0 \$0 \$29,249 \$0	\$0 \$0 \$30,943 \$0	\$0 \$0 \$32,391 \$0	\$0 \$0 \$33,102 \$0	\$0 \$0 \$35,000 \$0	\$0 \$0 \$34,859 \$0	\$0 \$0 \$35,989 \$0	\$0 \$0 \$38,250 \$0	\$0 \$0 \$42,485 \$0	\$0 \$0 \$45,758 \$0	\$0 \$0 \$50,305 \$0	\$0 \$0 \$53,671 \$0
FIRM CAPACITY FIRM CAPACITY	MW MW MW MW MW MW MW MW MW MW MW	CROD OFF CROD ON OWEF Wind:2025 Wind:2031 Wind:2031 Wind:2031 Wind:2031 Wind:2031 Wind:2031 Wind:2038 Wind:2038 Wind:2038	216.0 216.0 0.0 3.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	216.0 216.0 0.0 3.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	216.0 216.0 0.0 3.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	216.0 216.0 0.0 3.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	216.0 216.0 0.0 3.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	216.0 216.0 0.0 3.8 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 0.0 0.0 0.0 0.0	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8 3.8	0.0 0.0 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7 3.7

				Project 49188 - Infrastructure Update SMMPA Contract Extension Analysis																		
	SMMPA Contract Extension Analysis																					
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
MAXIMUM CAPACITY	MW	CROD OFF	216.0	216.0	216.0	216.0	216.0	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM CAPACITY	MW	CROD ON	216.0	216.0	216.0	216.0	216.0	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM CAPACITY	MW	OWEF	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
MAXIMUM CAPACITY	MW	Wind:2025	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2031	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2031	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2031	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	MW	Wind:2031	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	MVV	Wind:2031	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
	MVV	Wind:2031	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
		Wind:2036	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
		Wind:2038	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
MAXIMUM CAPACITY	MW	Wind:2038 Wind:2039	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0	25.0 25.0
	014/1			4.050	4 9 9 9	4 070	4 000	4 000					•								0	
ENERGY TAKEN OR SOLD	GWH	CRODOFF	1,040	1,052	1,062	1,072	1,086	1,098	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENERGY TAKEN OR SOLD	GWH		621	624	628	630	632	639	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENERGY TAKEN OR SOLD	GWH	OWEF	12	13	14	15	17	18	39	39	39	39	39	39	39	39	39	39	39	39	39	39
ENERGY TAKEN OR SOLD	GWH	Wind:2025	71	71	71	71	71	71	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2031	0	0	0	0	0	0	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2031	0	0	0	0	0	0	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2031	0	0	0	0	0	0	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2031	0	0	0	0	0	0	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2031	0	0	0	0	0	0	71	72	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2026	0	0	0	0	0	0	71	12	71	71	71	71	71	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2030	0	0	0	0	0	0	0	0	0	0	0	71	0	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2030	0	0	0	0	0	0	0	0	0	0	0	0	0	71	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	Wind:2030	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	72	71	71	71	71
ENERGY TAKEN OR SOLD	GWH	wind.2039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	71	12	71	71	/1	71
CAPACITY FACTOR	%	OWEF	28.15%	30.72%	32.74%	35.13%	38.54%	41.98%	89.78%	89.78%	89.78%	89.78%	89.82%	89.82%	89.82%	89.60%	89.22%	89.36%	89.42%	89.51%	89.58%	89.63%
CAPACITY FACTOR	%	Wind:2025	32.53%	32.65%	32.57%	32.51%	32.61%	32.56%	32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2031							32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2031							32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2031							32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2031							32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2031							32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2031							32.53%	32.65%	32.55%	32.53%	32.61%	32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2036												32.52%	32.65%	32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2038														32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2038														32.57%	32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CAPACITY FACTOR	%	Wind:2039															32.55%	32.57%	32.56%	32.53%	32.65%	32.55%
CROD OFF PEAK ENERGY RATE	\$/MWH	CROD OFF	\$44.39	\$45.05	\$45.73	\$46.42	\$47.11	\$47.82	\$48.54	\$49.27	\$50.00	\$50.75	\$51.52	\$52.29	\$53.07	\$53.87	\$54.68	\$55.50	\$56.33	\$57.17	\$58.03	\$58.90
CROD ON PEAK ENERGY RATE	\$/MWH	CROD ON	\$58.58	\$59.46	\$60.35	\$61.25	\$62.17	\$63.10	\$64.05	\$65.01	\$65.99	\$66.98	\$67.98	\$69.00	\$70.03	\$71.09	\$72.15	\$73.23	\$74.33	\$75.45	\$76.58	\$77.73
CROD TRANSMISSION CHARGE	\$/KW-MO	CROD	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66
CROD DEMAND CHARGE	\$/KW-MO	CROD	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66
CROD OFF PEAK ENERGY COST	\$000	CROD OFF	\$46,145	\$47,382	\$48,580	\$49,776	\$51,143	\$52,511	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROD ON PEAK ENERGY COST	\$000	CROD ON	\$36,389	\$37,112	\$37,871	\$38,609	\$39,307	\$40,317	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROD TRANSMISSION CHARGE	\$000	CROD	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895
CROD DEMAND CHARGE	\$000	CROD	\$27,566	\$27,613	\$27,631	\$27,631	\$27,631	\$27,631	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL COST OR REVENUE	\$000	Wind:2025	\$4,986	\$5,005	\$4,992	\$4,998	\$4,999	\$4,992	\$4,986	\$5,018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2031	\$0	\$0	\$0	\$0	\$0	\$0	\$4,986	\$5,018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2031	\$0	\$0	\$0	\$0	\$0	\$0	\$4,986	\$5,018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2031	\$0	\$0	\$0	\$0	\$0	\$0	\$4,986	\$5,018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2031	\$0	\$0	\$0	\$0	\$0	\$0	\$4,986	\$5,018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2031	\$0	\$0	\$0	\$0	\$0	\$0	\$4,986	\$5,018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2031	\$0	\$0	\$0	\$0	\$0	\$0	\$4,986	\$5,018	\$4,990	\$4,986	\$4,999	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2036	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,999	\$5,005	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2038	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2038	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,992	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
TOTAL COST OR REVENUE	\$000	Wind:2039	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$4,990	\$5,007	\$4,992	\$4,986	\$5,005	\$5,004
PERCENT RENEWABI F FNFRGY	%		35%	34%	32%	31%	30%	30%	26%	26%	25%	25%	25%	27%	27%	33%	35%	35%	34%	34%	34%	33%
	TONE		1 222 440	1 245 564	1 250 000	1 269 654	1 202 400	1 400 400	110 604	117 100	100 000	420.764	107 74 4	420.002	107 107	A14.000	404 272	411 000	100 E10	AAA 057	AGE 700	474.000
TOTAL CO2 EMISSIONS (EXCL MKT)	TONS		14,223,195	1,343,301	1,300,220	1,300,004	1,302,409	1,400,103	410,001	417,430	423,090	429,101	431,114	429,902	431,491	414,903	404,372	411,290	400,010	444,207	400,790	414,900
APPENDIX B - Contract Extension Analysis Detailed Production Cost Output

# **Rochester Public Utilities**

Project 49188 - Infrastructure Update SMMPA Contract Extension Analysis

						3			Rension	Anaiysis												
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
CO2 EMISSIONS DELTA W/O SMMPA	TONS	SMMPA MINUS W/O SMMPA	4,425	7,916	7,558	-35,330	-32,883	-28,126	931,397	893,539	906,280	912,304	875,756	900,841	870,011	909,308	894,370	901,912	857,316	816,450	815,355	729,369
AVOIDED CO2 TAX FROM EMISSIONS DELTA	\$000		\$212	\$396	\$401	-\$1,978	-\$1,940	-\$1,716	\$58,678	\$58,974	\$62,533	\$65,686	\$64,806	\$69,365	\$69,601	\$76,382	\$79,599	\$83,878	\$84,017	\$84,094	\$88,058	\$82,419
NPV OF SMMPA CO2 RISK @ 6.0%	\$000		\$463,104																			
RPU FIXED O&M COST	\$000		\$6,114	\$6,361	\$6,762	\$7,164	\$7,566	\$7,968	\$12,233	\$12,233	\$12,233	\$12,233	\$12,233	\$12,233	\$12,233	\$12,233	\$12,233	\$12,233	\$12,372	\$12,372	\$12,512	\$12,512
RPU DEBT SERVICE	\$000		\$0	\$0	\$0	\$0	\$0	\$0	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$33,236	\$33,236	\$34,879	\$34,879
CROD FIXED COST	\$000		\$34,461	\$34,508	\$34,525	\$34,525	\$34,525	\$34,525	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895
TOTAL FIXED COST	\$000		\$40,575	\$40,869	\$41,288	\$41,689	\$42,091	\$42,493	\$50,720	\$50,720	\$50,720	\$50,720	\$50,720	\$50,720	\$50,720	\$50,720	\$50,720	\$50,720	\$52,503	\$52,503	\$54,286	\$54,286
RPU VARIABLE O&M COST	\$000		\$5,301	\$5,338	\$5,338	\$5,363	\$5,391	\$5,406	\$39,123	\$39,425	\$39,301	\$39,337	\$39,513	\$44,421	\$44,553	\$54,195	\$59,053	\$59,306	\$59,426	\$59,487	\$59,984	\$60,073
RPU FUEL COST	\$000		\$2,795	\$3,031	\$3,257	\$3,447	\$3,723	\$4,031	\$44,543	\$46,381	\$48,226	\$50,090	\$52,228	\$52,499	\$54,733	\$53,114	\$52,933	\$55,143	\$59,552	\$62,514	\$67,171	\$70,183
RPU CO2 EMISSIONS COST	\$000		\$1,833	\$1,995	\$2,207	\$2,356	\$2,605	\$2,860	\$25,868	\$27,551	\$29,249	\$30,943	\$32,391	\$33,102	\$35,000	\$34,859	\$35,989	\$38,250	\$42,485	\$45,758	\$50,305	\$53,671
MARKET ENERGY COST	\$000		\$30,490	\$34,347	\$37,608	\$42,688	\$47,759	\$52,834	\$43,514	\$45,740	\$48,735	\$52,319	\$55,132	\$55,069	\$58,191	\$54,925	\$55,791	\$60,183	\$58,828	\$62,214	\$60,039	\$63,769
CROD ENERGY COST	\$000		\$82,534	\$84,494	\$86,451	\$88,386	\$90,450	\$92,828	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROD CO2 EMISSIONS COST	\$000		\$62,108	\$65,283	\$69,778	\$74,289	\$78,961	\$82,551	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL VARIABLE COST	\$000		\$185,062	\$194,488	\$204,639	\$216,528	\$228,890	\$240,511	\$153,047	\$159,097	\$165,511	\$172,688	\$179,263	\$185,092	\$192,477	\$197,093	\$203,767	\$212,882	\$220,291	\$229,973	\$237,498	\$247,696
TOTAL COST	\$000		\$225,637	\$235,357	\$245,927	\$258,218	\$270,982	\$283,003	\$203,767	\$209,817	\$216,231	\$223,409	\$229,984	\$235,812	\$243,197	\$247,814	\$254,487	\$263,603	\$272,794	\$282,476	\$291,784	\$301,982
NPV @ 6.0%	\$000		\$2,818,040																			

							Projec	t 49188 ·	- Infrastru	cture Up	date											
							SMMF	A Contra	act Exten	sion Anal	lysis											
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
ENERGY REQUIREMENTS	GWH	RPU	1,897	1,926	1,954	1,983	2,011	2,040	2,069	2,099	2,130	2,161	2,193	2,224	2,257	2,290	2,323	2,357	2,391	2,426	2,461	2,497
PEAK DEMAND	MW	RPU	364.7	369.6	374.4	379.3	384.1	389.0	394.0	399.1	404.3	409.6	414.9	420.2	425.7	431.2	436.8	442.5	448.2	454.0	459.9	465.8
ECONOMY INTERCHANGE PURCHASE ENER	GWH		87	97	110	115	123	117	128	141	145	166	177	182	189	200	209	224	230	247	259	277
ECONOMY INTERCHANGE PURCHASE COST	\$000		\$31,141	\$34,642	\$39,043	\$44,137	\$51,259	\$55,785	\$60,586	\$66,269	\$71,487	\$77,389	\$82,865	\$85,752	\$92,759	\$96,642	\$105,670	\$110,688	3 \$120,487	\$128,727	\$134,443	3 \$141,321
	M/\//	Cascado Crook1	27.0	27.0	27.0	27 0	27 0	27.0	27.0	27.0	27.0	27.0	27.0	27 0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
FIRM CAPACITY	MW	Cascade Creek2	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0	48.0
FIRM CAPACITY	MW	Lake Zumbro	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
FIRM CAPACITY	MW	Silver Lake1	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
FIRM CAPACITY	MW	Silver Lake2	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
FIRM CAPACITY	MW	Silver Lake3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
FIRM CAPACITY	MW	Silver Lake4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
FIRM CAPACITY	MW	Wartsila:2025:699	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2025:700	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MVV	Wartsila:2028:698	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
		Wartsila:2030:697	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
		Wartsila:2033:696	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.0	10.0	16.8	16.0	16.0	16.0	16.0	10.0
		Wartsila:2030.095	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0	10.0	16.8	16.8	10.0	10.0	10.0	10.0
		Wartsila:2030.094	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MM	Wartsila:2043:692	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8
		Wantsha.2040.092	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	10.0	10.0
GENERATION	GWH	Cascade Creek1	1	1	1	2	3	1	2	2	1	2	2	1	2	1	1	1	1	1	1	1
GENERATION	GWH	Cascade Creek2	19	20	20	17	19	16	17	18	15	17	18	15	16	13	14	12	14	15	12	13
GENERATION	GWH	Lake Zumbro	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
GENERATION	GWH	Silver Lake1	0	0	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0	0	0
GENERATION	GWH	Silver Lake2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENERATION	GWH	Silver Lake3	5	6	6	4	4	4	4	4	3	4	4	3	4	3	3	3	3	3	3	3
GENERATION	GWH	Silver Lake4	6	7	7	6	6	6	6	6	5	6	6	5	5	4	4	4	4	5	4	4
GENERATION	GWH	Wartsila:2025:699	20	22	24	19	20	19	19	20	19	19	21	20	21	19	21	19	21	22	20	21
GENERATION	GWH	Wartsila:2025:700	16	17	18	16	17	16	17	18	17	17	18	18	19	17	18	16	18	19	17	18
GENERATION	GWH	Wartsila:2028:698	0	0	0	23	26	21	22	24	22	22	24	22	25	21	24	21	24	26	23	25
GENERATION	GWH	Wartsila:2030:697	0	0	0	0	0	28	30	34	28	28	31	27	30	26	30	25	28	31	28	30
GENERATION	GWH	Wartsila:2033:696	0	0	0	0	0	0	0	0	35	35	37	32	35	32	34	30	33	35	33	34
GENERATION	GWH	Wartsila:2036:695	0	0	0	0	0	0	0	0	0	0	0	37	39	35	38	34	37	38	36	38
GENERATION	GWH	Wartsila:2038:694	0	0	0	0	0	0	0	0	0	0	0	0	0	39	41	37	40	40	39	41
GENERATION	GWH	Wartsila:2040:693	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	40	42	43	41	43
GENERATION	GWH	Wartsila:2043:692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	43	44
	0/	Casaada Craak1	0.25%	0.220/	0 429/	0.010/	1 110/	0 610/	0 719/	0 000/	0 629/	0 770/	0.00%	0 50%	0 6 4 9/	0 459/	0 5 9 9/	0.200/	0 400/	0 569/	0 / 19/	0 5 2 9/
	70 0/	Cascade Creek1	0.23%	0.33%	0.42%	4.00%	1.1170	3.86%	0.71%	0.00%	0.02%	3.06%	0.90%	0.50%	3 00%	0.45%	0.36%	2 80%	0.40%	0.00%	0.41%	0.52%
	/0 %	Lake Zumbro	76 52%	76 52%	76 52%	4.09%	76 52%	76 52%	76 52%	76 31%	76 52%	76 52%	76 52%	76 31%	76 52%	76 52%	76 52%	2.09% 76.31%	3.20 <i>%</i>	76 52%	2.03 % 76 52%	3.03 % 76 31%
	%	Silver Lake1	0.32%	0.41%	0.79%	0.37%	0.43%	0.52%	0.58%	0.68%	0.53%	0.61%	0.67%	0.48%	0.58%	0.52%	0.54%	0.38%	0.52%	0.54%	0.41%	0.50%
CAPACITY FACTOR	%	Silver Lake?	0.17%	0.22%	0.28%	0.21%	0.43%	0.02%	0.00%	0.00%	0.00%	0.01%	0.22%	0.40%	0.34%	0.40%	0.31%	0.00%	0.40%	0.30%	0.23%	0.28%
CAPACITY FACTOR	%	Silver Lake3	2 61%	2.85%	2 81%	1.79%	1.82%	1 69%	1.78%	1.81%	1.53%	1 71%	1.91%	1.62%	1.79%	1.34%	1 46%	1 27%	1 42%	1.56%	1.24%	1.29%
CAPACITY FACTOR	%	Silver Lake4	1.63%	1.72%	1.68%	1.52%	1.64%	1.41%	1.51%	1.51%	1.20%	1.40%	1.55%	1.26%	1.36%	1.04%	1.13%	1.02%	1.14%	1.24%	1.00%	1.03%
CAPACITY FACTOR	%	Wartsila:2025:699	13.93%	15.29%	16.12%	12.56%	13.45%	12.67%	13.02%	13.70%	12.84%	12.86%	14.06%	13.35%	14.19%	12.92%	13.98%	12.62%	13.95%	14.69%	13.44%	14.45%
CAPACITY FACTOR	%	Wartsila:2025:700	11.20%	11.82%	12.17%	10.86%	11.65%	11.16%	11.47%	12.23%	11.64%	11.59%	12.45%	11.90%	12.71%	11.56%	12.43%	11.13%	12.24%	12.79%	11.75%	12.52%
CAPACITY FACTOR	%	Wartsila:2028:698				15.88%	17.44%	14.40%	15.09%	16.54%	14.66%	14.97%	16.63%	15.18%	16.72%	14.60%	16.20%	14.32%	16.08%	17.36%	15.64%	17.09%
CAPACITY FACTOR	%	Wartsila:2030:697						18.92%	20.58%	22.71%	18.88%	19.25%	20.83%	18.56%	20.56%	17.83%	20.25%	16.72%	19.17%	20.86%	18.97%	20.32%
CAPACITY FACTOR	%	Wartsila:2033:696									23.79%	23.88%	25.42%	21.72%	23.66%	21.44%	23.35%	20.25%	22.59%	23.47%	22.17%	23.19%
CAPACITY FACTOR	%	Wartsila:2036:695												24.96%	26.73%	24.11%	25.90%	22.98%	25.04%	25.74%	24.57%	25.57%
CAPACITY FACTOR	%	Wartsila:2038:694														26.74%	28.10%	25.19%	27.02%	27.51%	26.66%	27.47%
CAPACITY FACTOR	%	Wartsila:2040:693																26.91%	28.78%	29.14%	28.14%	28.88%
CAPACITY FACTOR	%	Wartsila:2043:692																			29.25%	30.02%
	<b>•</b> • • • -		<b>A</b> -		<b>A</b> . A	• • •	•	<b>•</b> · · ·	<b></b>		<b>•</b> · · ·	<b>•</b> · · ·		<b>•</b> · •	<b>•</b> • •	<b>•</b> • •		•-	<b>A</b> 1 (	• • •		<b>A</b> 1 <b>A</b>
	\$000	Cascade Creek1	\$6	\$8 \$400	\$10	\$21	\$25	\$14	\$16 \$16	\$20	\$14	\$18	\$21	\$12	\$15	\$10	\$13	\$9 0446	\$11	\$13	\$9	\$12
TOTAL O AND M COST	\$000	Cascade Creek2	\$182	\$193	\$196	\$168	\$181	\$158	\$168	\$172	\$147	\$162	\$174	\$149	\$159	\$127	\$138	\$118	\$133	\$145	\$116	\$124
TOTAL O AND M COST	\$000		\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
	\$000 ¢000	Silver Lake1	\$627	\$627	\$628	\$627	\$627	\$627	\$628	\$628	\$627	\$628	\$628	\$627	\$627	\$627	\$627	\$627	\$627	\$627	\$627	\$627
	\$000 \$000	Silver Lakez	<b>みちてつ</b> あってい	JA57 21 500	₽924 ©1 500	J923 €1 500	₽923 ©1 500	⊅923 ©1 500	JJZJ €1 500	9979 61 EUD	₽923 ©1 504	9923 \$1 500	9979 Ø1 E01	₽9∠4 ©1 500	J7774	₽9∠4 €1 500	9924 \$1 501	JA722 €1 EUU	⊅9∠4 ¢1 ⊑01	9924 \$1 501	₽923 ©1 500	₽9∠4 €1 500
	\$000 ¢000		\$1,590 \$2,095	\$1,000 \$2,096	\$1,599 \$2,095	\$1,593 \$2,093	\$1,593 \$2,095	\$1,592 \$2,092	\$1,593 ¢2,093	\$1,593 \$2,093	\$1,591 \$2,090	\$1,592 \$2,092	\$1,594 \$2,094	\$1,592 \$2,090	\$1,593 ¢2,093	\$1,590 \$2,079	\$1,591 \$2,070	\$1,590 \$2,079	\$1,591 \$2,070	\$1,591	\$1,009 \$2,077	\$1,590 \$2,079
	\$000 \$000	Wartsila:2025-600	ψ∠,303 \$312	ψ∠,300 \$220	Ψ∠,300 \$340	42,303 \$206	42,300 \$306	ψ∠,30∠ \$207	₩2,303 \$201	ψ∠,903 \$210	ψ2,300 \$200	92,902 \$200	ψ∠,904 \$211	42,300 \$206	42,302 \$316	42,310 \$200	ψ∠,313 \$212	ψ∠,970 \$207	ψ∠,313 \$212	ψ∠,900 \$300	42,311 \$20r	ψ∠,310 \$210
	\$000	Wartsila:2025.099	\$279	\$286	\$291	\$275	\$284	\$278	\$282	\$292	\$284	\$283 \$283	\$294	\$288	\$297	\$283	\$294	\$278	\$201	\$298	\$285	\$295
TOTAL O AND M COST	\$000	Wartsila:2023.700	Ψ <u></u> 213	\$0	\$0	\$337	\$356	\$318	\$327	\$345	\$321	\$325	\$346	\$328	\$347	\$321	\$341	\$318	\$330	\$355	\$334	\$352
TOTAL O AND M COST	\$000	Wartsila:2020.090	\$0	\$0	\$0	\$0 \$0	\$0 \$0	\$374	\$395	\$422	\$374	\$378	\$398	\$370	\$395	\$361	\$391	\$347	\$377	\$398	\$375	\$392
TOTAL O AND M COST	\$000	Wartsila:2033:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$435	\$436	\$455	\$410	\$433	\$405	\$429	\$391	\$420	\$431	\$414	\$428
TOTAL O AND M COST	\$000	Wartsila:2036:695	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$450	\$471	\$439	\$461	\$425	\$450	\$459	\$444	\$457
TOTAL O AND M COST	\$000	Wartsila:2038:694	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$471	\$488	\$453	\$475	\$481	\$470	\$481

# Project 49188 - Infrastructure Update

							SMMF	PA Contra	act Extens	sion Ana	lysis											
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
TOTAL O AND M COST	\$000	Wartsila:2040:693	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$474	\$496	\$501	\$489	\$499
TOTAL O AND M COST	\$000	Wartsila:2043:692	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$502	\$513
			•	• -	•	• -	•		• -	• -	• -			• -	•	• -	• -	• -	• -	• -		
VARIABLE O AND M COSTS	\$/MWH	Cascade Creek1	\$9.72	\$9 72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9 72	\$9.72	\$9 72	\$9.72	\$9.72	\$9.72	\$9 72	\$9.72
VARIABLE O AND M COSTS	\$/M\\/H	Cascade Creek2	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72
VARIABLE O AND M COSTS	\$/M/M/H	Silver Lake1	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.99	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00
	\$/1010011 ¢/\\/\/Ll	Silver Lake?	\$2.99 \$2.00	φ2.99 ¢2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	φ2.99 ¢2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	\$2.99 \$2.00	φ2.99 ¢2.00	\$2.99	φ2.99 ¢2.00
	⊅/IVIVV⊓ ⊕/NANA/LI		φ2.99 Φ0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$Z.99	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$Z.99	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 \$0.00	\$2.99 ©	\$2.99 \$0.00	\$2.99 \$0.00
VARIABLE O AND M COSTS	\$/MVVH	Silver Lake3	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99
VARIABLE O AND M COSTS	\$/MWH	Silver Lake4	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2025:699	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2025:700	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2028:698	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2030:697	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8 42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8 42	\$8.42	\$8 42	\$8 42
VARIABLE O AND M COSTS	\$/M\\/H	Wartsila:2033:696	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
	¢/M/M/LI	Wartsila:2000.000	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.00	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42	¢0.42
	⊅/IVIVV⊓ ¢/\\\\\	Wartsila.2030.095	\$0.00 ¢0.00	\$0.00 ¢0.00	\$0.00 ¢0.00	\$0.00	\$0.00	\$0.00	\$0.00 ¢0.00	\$0.00 ¢0.00	φ0.42 Φ0.00	φ0.42 Φ0.00	Φ0.42	Φ0.42 Φ0.40	φ0.42 Φ0.40	Φ0.42 Φ0.40	φ0.42 ¢0.40	φ0.42 Φ0.40	Φ0.42 Φ0.40	Φ0.42 Φ0.40	φ0.42 ¢0.40	Φ0.42
VARIABLE O AND M COSTS	\$/IVIVVH	Wartsila:2038:694	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2040:693	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2043:692	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
FIXED O AND M COST	\$000	Cascade Creek1	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FIXED O AND M COST	\$000	Cascade Creek2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FIXED O AND M COST	\$000	Lake Zumbro	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
FIXED O AND M COST	\$000	Silver Lake1	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626
FIXED O AND M COST	\$000	Silver Lake?	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923
	\$000 \$000	Silver Lake2	¢1 582	¢1 582	¢320 ¢1 592	¢1 592	¢1 592	¢1 582	¢320 ¢1 592	¢320 ¢1 592	¢1 582	¢320 ¢1 582	¢320 ¢1 582	¢320 ¢1 592	¢020 ¢1 592	¢1 592	¢020 ¢1 592	¢1 582	¢1 582	¢320 ¢1 592	¢320 ¢1 592	¢1 592
	\$000 ¢000		\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,30Z	\$1,302 \$2,000	\$1,30Z	\$1,30Z	\$1,302 \$0,000	φ1,302 Φ0.000	φ1,30Z	\$1,30Z	\$1,50Z	Φ0.00Z
FIXED O AND M COST	\$000	Silver Lake4	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,965	\$2,966	\$2,965	\$2,965	\$2,966	\$2,966	\$2,965	\$2,965	\$2,965	\$2,965
FIXED O AND M COST	\$000	Wartsila:2025:699	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2025:700	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2028:698	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2030:697	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2033:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2036:695	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
	\$000	Warteila:2008:604	\$0 \$0	\$0 \$0	\$0 \$0	\$Q	0.0	ΦΦ ΦΦ	\$0 \$0	\$0 \$0	0¢	\$0 \$0	\$0 \$0	\$0 \$0	\$0 \$0	\$140	\$140	¢140	¢140	¢140	¢1/0	¢110 ¢140
	\$000 ¢000	Wartsila.2030.094	φ0 ¢0	φ0 Φ0	ΨO	ΦO	ФО ФО	Φ0 Φ0	ΨO	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	\$140 ¢0	\$140 ¢0	\$140 ¢140	\$140 ¢140	\$140 ¢140	\$140 \$140	¢140
FIXED O AND MICOST	\$000	Wartsila:2040:693	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> U	<b>\$</b> 0	<b>\$</b> U	<b>\$</b> 0	<b>\$</b> U	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	<b>\$</b> 0	\$140	\$140	\$140	\$140	\$140
	<b>*</b> ~~~	11/ / 11 00/00 000	<b>A</b> A	<b>^</b>	<b>^</b>	<b>^</b>	<b>*</b> ~	<b>^</b>	<b>^</b>	<b>*</b> ~	<b>^</b>	<b>*</b> ~	<b>^</b>	<b>^</b>	<b>^</b>	<b>*</b> ~	<b>^</b>	<b>^</b>	<b>^</b>	<b>^</b>	<b>*</b> • • • •	<b>*</b> • • • •
FIXED O AND M COST	\$000	Wartsila:2043:692	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2043:692	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140
FIXED O AND M COST ANNUAL DEBT SERVICE	\$000 \$000	Wartsila:2043:692 Wartsila:2025:699	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$0 \$1,643	\$140 \$1,643	\$140 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$0 \$1,643 \$1,643	\$140 \$1,643 \$1,643	\$140 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698	\$0 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697	\$0 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000 \$000	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696	\$0 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1.643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1.643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1.643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000 \$000 \$000	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2036:695	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000 \$000 \$000	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2036:695 Wartsila:2038:694	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2042:602	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2043:692	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2043:692	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2040:693 Wartsila:2043:692 Cascade Creek1	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$153	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$133	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$158	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2036:697 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2040:693 Wartsila:2043:692 Cascade Creek1 Cascade Creek2	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$115 \$1,037	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$153 \$1,154	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$107 \$1,009	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$133 \$1,164	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$158 \$1,295	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2043:692 Cascade Creek1 Cascade Creek2 Silver Lake1	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$198 \$1,223 \$58	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$181 \$1,201 \$55	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$115 \$1,037 \$46	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$153 \$1,154 \$57	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$107 \$1,009 \$42	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$133 \$1,164 \$50	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$158 \$1,295 \$62	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643\$1,643 \$1,643 \$1,643\$1,643 \$1,6
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2040:693 Wartsila:2043:692 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,102 \$28 \$24	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$234 \$1,205 \$34 \$28	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,064 \$42 \$17	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$198 \$1,223 \$58 \$28	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$181 \$1,201 \$55 \$26	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$218 \$1,325 \$63 \$32	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$124 \$1,158 \$47 \$41	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$161 \$1,270 \$58 \$52	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$115 \$1,037 \$46 \$41	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$153 \$1,154 \$57 \$51	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$107 \$1,009 \$42 \$36	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$133 \$1,164 \$50 \$44	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$158 \$1,295 \$62 \$53	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,067 \$49 \$42	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643\$1,643 \$1,643 \$1,643 \$1,643\$1,643 \$1,643 \$1,643\$1,643 \$1,6443\$1,6443\$1,6443\$1,6443\$1,6443\$1,6443\$1,6443\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,645\$1,6
FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2038:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2040:693 Wartsila:2043:692 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$130 \$1,064 \$42 \$17 \$292	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$157 \$1,161 \$49 \$21 \$317	\$0 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FIXED O AND M COST ANNUAL DEBT SERVICE ANNUAL DEBT SERVICE TOTAL FUEL COST TOTAL FUEL COST	\$000 \$000 \$000 \$000 \$000 \$000 \$000 \$00	Wartsila:2043:692 Wartsila:2025:699 Wartsila:2025:700 Wartsila:2028:698 Wartsila:2030:697 Wartsila:2033:696 Wartsila:2038:694 Wartsila:2040:693 Wartsila:2040:693 Wartsila:2043:692 Cascade Creek1 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,256 \$59 \$32 \$445 \$505	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$1,102 \$28 \$24 \$293 \$472	\$0 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$181 \$1,201 \$55 \$26 \$333 \$515	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$124 \$1,158 \$47 \$41 \$336 \$496	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$0 \$0 \$0 \$161 \$1,270 \$58 \$52 \$380 \$549	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$115 \$1,037 \$46 \$41 \$293 \$433	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$0 \$153 \$1,154 \$57 \$51 \$329 \$481	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$107 \$1,009 \$42 \$36 \$295 \$450	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$0 \$133 \$1,164 \$50 \$44 \$341 \$516	\$0 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,58 \$1,295 \$62 \$53 \$384 \$578	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,067 \$49 \$42 \$314 \$483	\$140 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643 \$1,643\$1,643 \$1,643 \$1,643 \$1,643\$1,643 \$1,643 \$1,643\$1,643 \$1,643 \$1,643\$1,643 \$1,643 \$1,643\$1,6443 \$1,6443\$1,6443 \$1,6443 \$1,6443\$1,6443 \$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,645\$\$1,64
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							Project	49188 -	Infrastruc	ture Up	date											
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Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
CO2	TONS	Wartsila:2028:698	0	0	0	12,657	13,864	11,446	11,999	13,187	11,652	11,896	13,217	12,099	13,291	11,605	12,877	11,417	12,779	13,800	12,431	13,623
CO2	TONS	Wartsila:2030:697	0	0	0	0	0	15,041	16,363	18,103	15,007	15,304	16,560	14,797	16,342	14,172	16,099	13,324	15,234	16,581	15,079	16,200
CO2	TONS	Wartsila:2033:696	0	0	0	0	0	0	0	0	18,914	18,980	20,205	17,310	18,810	17,040	18,558	16,143	17,960	18,654	17,620	18,483
CO2	TONS	Wartsila:2036:695	0	0	0	0	0	0	0	0	0	0	0	19,897	21,250	19,164	20,584	18,315	19,906	20,463	19,531	20,379
CO2	TONS	Wartsila:2038:694	0	0	0	0	0	0	0	0	0	0	0	0	0	21,256	22,333	20,082	21,482	21,870	21,191	21,895
CO2	TONS	Wartsila:2040:693	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21,448	22,880	23,166	22,371	23,021
CO2	TONS	Wartsila:2043:692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23 249	23,929
CO2 (Theoretical)	TONS	CROD	1 334 788	1 344 434	1 353 004	1 360 999	1 369 856	1 381 787	1 390 726	1 396 687	1 401 402	1 405 520	1 410 919	1 416 219	1 423 483	1 427 746	1 431 724	1 436 841	1 439 148	1 443 458	1 442 854	1 1 445 146
	TONO	OROB	1,004,700	1,044,404	1,000,004	1,000,000	1,000,000	1,001,707	1,000,720	1,000,007	1,401,402	1,400,020	1,410,515	1,410,210	1,420,400	1,427,740	1,401,724	1,400,041	1,400,140	, 1,440,400	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1,440,140
NOx	TONS	Cascado Crook1	0	1	1	2	2	1	1	1	1	1	2	1	1	1	1	1	1	1	1	1
NOX	TONS	Cascade Creek1	10	1	1	2	2	0	0	10	0	0	2	0	0	7	0	7	7	0	i C	7
NOX	TONS		10	11	11	9	10	9	9	10	0	9	10	0	9	1	0	1	1	0	0	1
NOX	TONS	Silver Lake	1	1	2	1	1	1	1	2	1	2	2	1	1	1	1	1	1	1	1	1
NOx	TONS	Silver Lake2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
NOx	TONS	Silver Lake3	14	15	15	9	10	9	9	10	8	9	10	9	9	7	8	7	8	8	7	7
NOx	TONS	Silver Lake4	16	17	17	15	16	14	15	15	12	14	16	13	14	10	11	10	11	12	10	10
NOx	TONS	Wartsila:2025:699	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
NOx	TONS	Wartsila:2025:700	1	2	2	1	1	1	1	2	1	1	2	2	2	1	2	1	2	2	1	2
NOx	TONS	Wartsila:2028:698	0	0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
NOx	TONS	Wartsila:2030:697	0	0	0	0	0	2	3	3	2	2	3	2	3	2	3	2	2	3	2	3
NOx	TONS	Wartsila:2033:696	0	0	0	0	0	0	0	0	3	3	3	3	3	3	3	3	3	3	3	3
NOx	TONS	Wartsila:2036:695	ů 0	0	0	0	0	0	0	0	0	0	0	3 3	3	3	3	3	3	3	3	3
NOx	TONS	Wartaila:2030.035	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	2	2	2	1
NOX	TONS	Waitsila.2036.094	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	3	3	3	3	4
NOX	TONS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	4	4	4
NOx	TONS	Wartsila:2043:692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	4
SO2	TONS	Cascade Creek1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Cascade Creek2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Silver Lake1	3	4	7	3	4	5	5	6	5	6	6	4	5	4	5	3	4	5	4	5
SO2	TONS	Silver Lake2	2	3	4	3	3	2	2	3	2	3	3	4	5	4	4	3	4	4	3	4
SO2	TONS	Silver Lake3	51	56	55	35	35	33	35	35	30	33	37	32	35	26	28	25	28	30	24	25
SO2	TONS	Silver Lake4	60	64	62	56	61	52	56	56	44	52	57	47	50	39	42	38	42	46	37	38
SO2	TONS	Wartsila:2025:699	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
502 502	TONS	Wartaila:2025:700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
502 502	TONS	Wartsila:2020.700	0	0	0	1	1	0	0	1	0	0	1	0	1	0	1	0	1	1	1	1
302	TONS	Waltsla.2020.090	0	0	0	1	1	0	0	1	0	0		0		0	1	0		1		1
S02	TONS	Wartsila:2030:697	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SO2	TONS	Wartsila:2033:696	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
SO2	TONS	Wartsila:2036:695	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
SO2	TONS	Wartsila:2038:694	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
SO2	TONS	Wartsila:2040:693	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1
SO2	TONS	Wartsila:2043:692	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
SYSTEM EFFLUENT EXPENSE	\$000	NOx	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SYSTEM FEELUENT EXPENSE	\$000	SO2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SYSTEM EFFLUENT EXPENSE	\$000	CO2	\$2 310	\$2 593	\$2 832	\$3 216	\$3,658	\$4 232	\$4 635	\$5 193	\$5 996	\$6 509	\$7 282	\$8 221	\$9 257	\$10 224	\$11 786	\$12 793	\$14 823	\$16.329	\$18 273	\$20 112
	\$000	CO2	\$64.070	¢67 222	¢2,002	\$76.216	\$20 821	¢94,202	\$97.616	¢0,100 ¢02 181	\$06 607	\$101 107	\$104 408	\$100.040	¢112 870	¢10,224	¢127 422	¢123 626	¢141036	¢1/9 676	¢155 929	\$163 301
THEORETICAL CROD ET LOENT EAFENSE	\$000	002	φ0 <del>4</del> ,070	φ07,222	φ/1,/09	\$70,210	φ00,02 i	φ0 <del>4</del> ,209	\$67,010	φ92,101	\$90,097	\$101,157	\$104,400	\$109,049	φ115,079	φ119,951	φ127,423	φ133,020	\$141,030	\$140,070	φ135,020	\$105,501
	N 41A/		216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
			210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0	210.0
	IVIVV		216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
FIRM CAPACITY	IVIVV	OWEF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	N 4) 4 /		040.0	040.0	040.0	040.0	040.0	040.0	040.0	040.0	046.0	040.0	040.0	040.0	040.0	040.0	040.0	040.0	040.0	040.0	040.0	040.0
	IVIVV	CROD OFF	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
MAXIMUM CAPACITY	MW	CROD ON	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
MAXIMUM CAPACITY	MW	OWEF	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
ENERGY TAKEN OR SOLD	GWH	CROD OFF	1,076	1,087	1,096	1,105	1,117	1,128	1,137	1,140	1,151	1,160	1,166	1,171	1,179	1,183	1,188	1,197	1,197	1,200	1,201	1,202
ENERGY TAKEN OR SOLD	GWH	CROD ON	637	638	640	641	641	646	648	653	648	644	645	647	648	649	650	647	650	653	651	653
ENERGY TAKEN OR SOLD	GWH	OWEF	15	16	18	20	22	24	25	26	28	28	29	29	31	32	33	33	35	35	36	36
CAPACITY FACTOR	%	OWEF	33.66%	36.97%	40.70%	45.56%	50.71%	54.39%	56.80%	59.24%	62.93%	64.18%	66.30%	67.04%	70.23%	71.92%	74.93%	75.72%	79.42%	80.82%	82.29%	82.35%
CROD OFF PEAK ENERGY RATE	\$/MWH	CROD OFF	\$44.39	\$45.05	\$45.73	\$46.42	\$47.11	\$47.82	\$48.54	\$49.27	\$50.00	\$50.75	\$51.52	\$52.29	\$53.07	\$53.87	\$54.68	\$55.50	\$56.33	\$57.17	\$58.03	\$58.90
CROD ON PEAK ENERGY RATE	\$/MWH	CROD ON	\$58.58	\$59.46	\$60.35	\$61.25	\$62.17	\$63.10	\$64.05	\$65.01	\$65.99	\$66.98	\$67.98	\$69.00	\$70.03	\$71.09	\$72.15	\$73.23	\$74.33	\$75.45	\$76.58	\$77.73
CROD TRANSMISSION CHARGE	\$/K\W-MO	CROD	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66	\$2.66
	\$/K\\/_MO	CROD	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66	\$10.66
	φ/ττνν-ΙνΙΟ		φ10.00	φ10.00	φ10.00	φ10.00	ψ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00
	\$000		\$17 766	\$19 005	\$50 120	\$51 210	\$52 620	\$53 0/0	\$55 170	\$56 140	\$57 510	\$50 957	\$60.076	\$61 220	\$62 555	\$62 7F2	\$64 020	\$66 100	\$67 151	\$69 610	\$60 701	\$70 797
	\$000 \$000		ψτι,ιου ¢27 222	\$27 050	400,120 \$20 610	\$20.200	402,000 \$20 0F1	\$40 720	\$11 E07	\$10,140 \$10,140	\$107,040 \$10 7E0	400,001 ¢10 150	\$10,070 \$10 000	401,209 \$11 611	\$15 114	\$16 100	\$16 000	\$17 100	ψυ1,401 ΦΛΟ 207	¢00,012	ψυσ,/UI ¢/0 0/0	\$50,707
	φ000 Φ000		φοι,οζο Φο οος	401,900 C 005	400,049 ¢c 005	φ39,200 ΦC 005	409,00 I	ψ40,139 ΦC 005	Φ41,0∠1 Φ6 005	942,401	942,/OU	Φ40,100 ΦC 007	⊕43,03∠ ¢€ 005	φ44,014 ¢c 005	Φ40,411 Φ6 005	φ40,139 ¢c.005	940,900 ¢c 005	947,409 ¢c.005	940,291	949,242 ¢c.005	949,043 ¢c.005	φου,700 Φε οος
	<b>Φ000</b>		<b>ФОД 50</b>	30,895	30,895	30,895	\$0,895	30,895	30,895	30,895	30,895	30,895	30,895	30,895	30,895	ф0,895	30,895	30,895	ф0,895 Фо <b>л</b> аса	30,895	30,895	30,895
CROD DEMAND CHARGE	\$000	CROD	\$27,566	\$27,613	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631	\$27,631

Project 49188 - Infrastructure Update SMMPA Contract Extension Analysis

							SMMP	'A Contra	act Extens	sion Anal	ysis											
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
SYSTEM CO2 EMISSIONS (EXCL MKT)	TONS	RPU PLUS CROD	1,382,922	1,396,289	1,406,439	1,418,424	1,431,855	1,451,156	1,464,300	1,475,372	1,488,303	1,495,927	1,509,321	1,522,985	1,539,190	1,549,458	1,564,149	1,574,397	1,590,403	1,601,993	1,612,044	1,623,127
TOTAL CO2 EMISSIONS (EXCL MKT)	TONS		30,098,055																			
RPU FIXED O&M COST	\$000		\$6,394	\$6,394	\$6,394	\$6,534	\$6,534	\$6,673	\$6,673	\$6,673	\$6,813	\$6,813	\$6,813	\$6,953	\$6,953	\$7,093	\$7,093	\$7,233	\$7,233	\$7,233	\$7,372	\$7,372
RPU DEBT SERVICE	\$000		\$3,286	\$3,286	\$3,286	\$4,929	\$4,929	\$6,572	\$6,572	\$6,572	\$8,215	\$8,215	\$8,215	\$9,858	\$9,858	\$11,501	\$11,501	\$13,144	\$13,144	\$13,144	\$14,786	\$14,786
CROD FIXED COST	\$000		\$34,461	\$34,508	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525	\$34,525
TOTAL FIXED COST	\$000		\$44,141	\$44,188	\$44,205	\$45,988	\$45,988	\$47,771	\$47,771	\$47,771	\$49,553	\$49,553	\$49,553	\$51,336	\$51,336	\$53,119	\$53,119	\$54,901	\$54,901	\$54,901	\$56,684	\$56,684
RPU VARIABLE O&M COST	\$000		\$537	\$577	\$597	\$708	\$766	\$909	\$961	\$1,034	\$1,200	\$1,232	\$1,336	\$1,501	\$1,624	\$1,761	\$1,914	\$2,015	\$2,212	\$2,310	\$2,509	\$2,638
RPU FUEL COST	\$000		\$3,759	\$4,190	\$4,468	\$5,080	\$5,596	\$6,467	\$7,033	\$7,754	\$8,887	\$9,456	\$10,553	\$11,835	\$13,157	\$14,323	\$15,970	\$17,052	\$19,227	\$20,637	\$22,664	\$24,460
RPU CO2 EMISSIONS COST	\$000		\$2,310	\$2,593	\$2,832	\$3,216	\$3,658	\$4,232	\$4,635	\$5,193	\$5,996	\$6,509	\$7,282	\$8,221	\$9,257	\$10,224	\$11,786	\$12,793	\$14,823	\$16,329	\$18,273	\$20,112
MARKET ENERGY COST	\$000		\$31,141	\$34,642	\$39,043	\$44,137	\$51,259	\$55,785	\$60,586	\$66,269	\$71,487	\$77,389	\$82,865	\$85,752	\$92,759	\$96,642	\$105,670	\$110,688	\$120,487	\$128,727	\$134,443	\$141,321
CROD ENERGY COST	\$000		\$85,089	\$86,941	\$88,778	\$90,600	\$92,489	\$94,678	\$96,698	\$98,601	\$100,299	\$102,015	\$103,909	\$105,853	\$107,967	\$109,892	\$111,838	\$113,831	\$115,748	\$117,854	\$119,544	\$121,552
CROD CO2 EMISSIONS COST	\$000		\$64,070	\$67,222	\$71,709	\$76,216	\$80,821	\$84,289	\$87,616	\$92,181	\$96,697	\$101,197	\$104,408	\$109,049	\$113,879	\$119,931	\$127,423	\$133,626	\$141,036	\$148,676	\$155,828	\$163,301
TOTAL VARIABLE COST	\$000		\$186,906	\$196,164	\$207,428	\$219,957	\$234,589	\$246,360	\$257,529	\$271,033	\$284,567	\$297,799	\$310,352	\$322,210	\$338,641	\$352,773	\$374,601	\$390,004	\$413,534	\$434,534	\$453,261	\$473,385
TOTAL COST	\$000		\$231,047	\$240,352	\$251,633	\$265,945	\$280,577	\$294,131	\$305,299	\$318,804	\$334,120	\$347,352	\$359,905	\$373,546	\$389,977	\$405,891	\$427,720	\$444,906	\$468,435	\$489,436	\$509,945	\$530,069
NPV @ 6.0%	\$000		\$3,836,070																			

						I	Project 4	9188 - Ini	rastructu	ire Upda	ite											
							SMMPA	Contract	Extensio	n Analys	sis											
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
ENERGY REQUIREMENTS	GWH	RPU	1,897	1,926	1,954	1,983	2,011	2,040	2,069	2,099	2,130	2,161	2,193	2,224	2,257	2,290	2,323	2,357	2,391	2,426	2,461	2,497
PEAK DEMAND	MW	RPU	364.7	369.6	374.4	379.3	384.1	389.0	394.0	399.1	404.3	409.6	414.9	420.2	425.7	431.2	436.8	442.5	448.2	454.0	459.9	465.8
ECONOMY INTERCHANGE PURCHASE ENER	GWH		110	122	136	151	162	169	922	938	960	980	934	949	968	925	944	905	917	887	901	919
ECONOMY INTERCHANGE PURCHASE COST	\$000		\$35,621	\$39,718	\$44,505	\$52,449	\$60,891	\$68,593	\$67,688	\$71,559	\$75,874	\$80,598	\$76,411	\$80,559	\$85,252	\$81,710	\$87,052	\$84,072	\$89,029	\$87,093	\$92,071	\$97,960
	N/N/	ZEA Combined Cycle :2031:700	0.0	0.0	0.0	0.0	0.0	0.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0
		Concode Crock1	0.0	27.0	0.0	0.0	0.0	0.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	330.0	27.0
		Cascade Creek1	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
		Laka Zumbra	40.0	46.0	40.0	40.0	40.0	40.0	40.0	40.0	46.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0
		Lake Zullibio	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
		Silver Level	1.0	7.2	12.7	10.3	23.9	29.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
		Silver Lakez	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0	14.0
		Silver Lake3	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
		Silver Lake4	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
FIRM CAPACITY	MW	Wartsila:2035:699	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2038:698	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2040:697	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8	16.8	16.8
FIRM CAPACITY	MW	Wartsila:2042:696	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	16.8	16.8	16.8
GENERATION	GWH	7FA Combined Cycle :2031:700	0	0	0	0	0	0	1,049	1,062	1,071	1,081	1,147	1,162	1,174	1,235	1,248	1,304	1,322	1,371	1,385	1,401
GENERATION	GWH	Cascade Creek1	2	2	2	5	6	6	7	7	8	8	7	7	8	7	7	6	7	6	6	6
GENERATION	GWH	Cascade Creek2	27	29	30	30	33	35	18	18	18	18	19	19	20	20	20	19	19	18	19	19
GENERATION	GWH	Lake Zumbro	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
GENERATION	GWH	Market Firm Purchases	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
GENERATION	GWH	Silver Lake1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	1	1	1
GENERATION	GWH	Silver Lake2	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2
GENERATION	GWH	Silver Lake3	7	8	8	6	6	7	6	7	6	6	6	7	7	6	6	6	6	5	6	6
GENERATION	GWH	Silver Lake4	8	8	9	9	9	10	10	10	10	10	10	10	11	10	10	9	9	8	9	9
GENERATION	GWH	Wartsila:2035:699	0	0	0	0	0	0	0	0	0	0	13	13	14	14	14	15	16	16	17	17
GENERATION	GWH	Wartsila:2038:698	0	0	0	0	0	0	0	0	0	0	0	0	0	16	16	17	18	17	19	19
GENERATION	GWH	Wartsila:2040:697	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	19	20	19	21	21
GENERATION	GWH	Wartsila:2042:696	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	24	24
CAPACITY FACTOR	%	7FA Combined Cycle :2031:700							36.28%	36.64%	37.05%	37.41%	39.67%	40.08%	40.60%	42.74%	43.18%	44.97%	45.75%	47.43%	47.93%	48.34%
CAPACITY FACTOR	%	Cascade Creek1	0.80%	0.85%	0.93%	1.93%	2.48%	2.64%	3.05%	3.07%	3.22%	3.25%	3.09%	3.13%	3.20%	2.95%	3.01%	2.71%	2.79%	2.35%	2.43%	2.43%
CAPACITY FACTOR	%	Cascade Creek2	6.49%	6.91%	7.12%	7.15%	7.75%	8.43%	4.21%	4.24%	4.28%	4.35%	4.54%	4.62%	4.67%	4.70%	4.69%	4.49%	4.63%	4.26%	4.40%	4.46%
CAPACITY FACTOR	%	Lake Zumbro	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%	76.52%	76.52%	76.52%	76.31%
CAPACITY FACTOR	%	Market Firm Purchases	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
CAPACITY FACTOR	%	Silver Lake1	0.77%	0.79%	0.98%	0.92%	1.04%	1 29%	2 27%	2.30%	2.34%	2.36%	2 22%	2 26%	2 30%	2.10%	2.12%	1.85%	1.91%	1.67%	1 74%	1.80%
CAPACITY FACTOR	%	Silver Lake2	0.45%	0.47%	0.53%	0.53%	0.51%	0.54%	1 91%	1 94%	1 99%	2 01%	1.88%	1 92%	1 96%	1 78%	1 78%	1 54%	1.58%	1.32%	1.37%	1.39%
	%	Silver Lake3	3 56%	3.80%	3 92%	3.08%	2.87%	3 12%	3.07%	3 10%	3.00%	3.04%	3.04%	3 11%	3 16%	3.05%	3.07%	2 79%	2.88%	2 58%	2.67%	2 72%
	%	Silver Lake4	2.07%	2 12%	2 18%	2 19%	2.07%	2 44%	2 54%	2 57%	2.62%	2.66%	2 56%	2.61%	2.68%	2.52%	2 57%	2.75%	2.00%	2.00%	2.07%	2.72%
	%	Wartsila:2035:600	2.0770	2.1270	2.1070	2.1070	2.2070	2.4470	2.0470	2.07 /0	2.0270	2.0070	8 51%	8.62%	9.40%	0.10%	9.84%	10 30%	10 78%	10.82%	11 51%	11 50%
	70 0/	Wartsila:2033.699											0.0170	0.0270	3.4370	10 64%	3.0470 11 120/	11 / / 0/	12 01%	11 85%	12 67%	10 70%
	70 0/	Wartsila:2030.030														10.0470	11.1570	12 02%	12.01/0	13 20%	1/ 17%	1/ 36%
	70 0/	Waltslia.2040.097																12.92%	13.03%	15.20%	14.17 %	14.30%
CAFACILIT FACTOR	70	Waltsila.2042.090																		15.00%	10.11%	10.52%
	\$000	7EA Combined Cycle :2031:700	\$0	\$0	\$0	\$0	\$0	\$0	\$10.985	\$11.046	\$11 088	\$11 136	\$11 /30	\$11 500	\$11 565	\$11 851	\$11 000	\$12 167	\$12 255	\$12 /81	\$12 5/7	\$12 620
	\$000 \$000	Cascade Creek1	Ψ0 \$18	ΨU \$10	Ψ0 \$21	ΨU \$45	φ0 \$57	Ψ0 \$61	\$70	\$71	\$74	\$75	\$71 \$71	\$72	\$74	\$68	\$60 \$60	\$62	\$64	\$54	\$56	\$56
	\$000 \$000	Cascade Creek?	\$765	¢797	Ψ21 \$201	¢203	ψ37 \$317	\$345	\$172	Ψ/ T \$17/	Ψ175	¢179	Ψ195	Ψ12 \$180	Ψ1 <del>4</del> \$101	\$102	\$102 \$102	Ψ02 \$19 <i>1</i>	Ψ0 <del>-</del> \$180	ΨJ <del>4</del> ¢17/	\$180 \$180	ψ00 ©102
	\$000 ¢000	Laka Zumbro	φ20J ¢10	φ202 ¢10	ψ291 ©10	φ293 ¢10	φ317 ¢10	\$345 ¢10	φ172 ¢10	φ17 <del>4</del> ¢10	\$175 ¢10	\$170 ¢10	\$100 \$10	\$105 \$10	\$191 ¢10	φ192 ¢10	\$192 \$10	\$104 \$10	\$109 ¢10	φ174 ¢10	\$100 ¢10	\$105 ¢10
	\$000 ¢000	Market Firm Burehaaaa	φ1 <del>3</del> ©11 <i>1</i>	φ19 ©516	φ19 ¢010	φ19 ¢1 220	φ13 ¢1 701	φ19 ¢0.100	\$19 \$0	\$19 ¢0	\$19 ¢0	\$19 ¢0	\$19 \$19	\$19 \$19	\$19 \$19	\$19 ¢0	\$19 ¢0	¢0	\$19 \$19	\$19 ¢0	\$19 \$19	\$19 \$19
	\$000 ¢000	Silver Lake1	φ114 ¢600	4010 #coo	4910 ¢600	φ1,320 ¢coo	φ1,721 ¢c20	φ2,123 ¢600	φ0 Φ633	φ0 ¢600	φ0 ¢622	φ0 Φ622	φ0 Φ633	φ0 Φ633	φ0 Φ600	ΦC24	Φ0 Φ624	φ0 Φ624	φ0 Φ624	φ0 Φ620	φ0 Φ620	φ0 ¢604
	\$000 ¢000		\$0∠0 ©004	\$0∠0 ©004	\$0∠0 ©005	\$0∠0 ©005	\$029 \$004	9029 ©005	\$03∠ ¢000	\$032 €020	\$032 \$020	\$03∠ ©000	\$032 \$000	\$032 \$020	\$032 \$020	\$031 \$000	\$031 \$000	\$031 ¢000	\$031 \$000	\$03U	\$030 ©000	000 I
	\$000 ¢000	Silver Lakez	\$924 \$4.004	\$924	\$925	\$925	\$924	\$925	\$930	\$930	\$930	\$930	\$929	\$930	\$930	\$929	\$929	\$928	\$928	\$927	\$928	\$928
	\$000	Silver Lake3	\$1,604	\$1,605	\$1,606	\$1,601	\$1,600	\$1,601	\$1,601	\$1,601	\$1,600	\$1,601	\$1,601	\$1,601	\$1,601	\$1,601	\$1,601	\$1,599	\$1,600	\$1,598	\$1,598	\$1,599
TOTAL O AND M COST	\$000	Silver Lake4	\$2,990	\$2,990	\$2,991	\$2,991	\$2,992	\$2,994	\$2,995	\$2,996	\$2,996	\$2,997	\$2,996	\$2,996	\$2,997	\$2,995	\$2,996	\$2,993	\$2,994	\$2,990	\$2,991	\$2,992
TOTAL O AND M COST	\$000	Wartsila:2035:699	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$245	\$247	\$257	\$257	\$262	\$268	\$273	\$274	\$282	\$283
TOTAL O AND M COST	\$000	Wartsila:2038:698	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$272	\$278	\$282	\$289	\$287	\$297	\$298
TOTAL O AND M COST	\$000	Wartsila:2040:697	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$300	\$309	\$303	\$315	\$318
TOTAL O AND M COST	\$000	Wartsila:2042:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$326	\$339	\$345
	<b></b>		<b>*</b> ••••	<b>AA A A</b>	<b>AA AA</b>	<b>AA AA</b>	<b>A</b> C	<b>AA</b>	<b></b>	<b>•</b> • • • •	<b></b>	<b>•</b> • • •	<b></b>	<b></b>	<b></b>	<b></b>	<b></b>	<b>6</b> · - ·	<b>•</b> • • • •	<b>•</b> • • •	<b>6</b> 4 - 1	<b>•</b> <i>i</i> <b>•</b> <i>i</i>
VARIABLE O AND M COSTS	\$/MWH	7FA Combined Cycle :2031:700	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64	\$4.64
VARIABLE O AND M COSTS	\$/MWH	Cascade Creek1	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72
VARIABLE O AND M COSTS	\$/MWH	Cascade Creek2	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72	\$9.72
VARIABLE O AND M COSTS	\$/MWH	Silver Lake1	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99
VARIABLE O AND M COSTS	\$/MWH	Silver Lake2	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99
VARIABLE O AND M COSTS	\$/MWH	Silver Lake3	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99
VARIABLE O AND M COSTS	\$/MWH	Silver Lake4	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99	\$2.99
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2035:699	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2038:698	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42

						I	Project 4	9188 - Inf	rastructu	ire Upda	ate											
						;	SMMPA	Contract	Extensio	n Analys	sis											
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2040:697	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42	\$8.42	\$8.42
VARIABLE O AND M COSTS	\$/MWH	Wartsila:2042:696	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$8.42	\$8.42	\$8.42
	\$000	7EA Combined Cycle :2031:700	\$0	0\$	\$0	\$0	\$0	\$0	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118	\$6 118
FIXED O AND M COST	\$000	Cascade Creek1	\$0 \$0	\$0 \$0	φ0 \$0	φ0 \$0	\$0 \$0	Ψ0 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0	\$0,110 \$0
FIXED O AND M COST	\$000	Cascade Creek2	\$0 \$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0	\$0	\$0 \$0	\$0	\$0	\$0	\$0
FIXED O AND M COST	\$000	Lake Zumbro	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19	\$19
FIXED O AND M COST	\$000	Market Firm Purchases	\$114	\$516	\$918	\$1.320	\$1.721	\$2,123	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FIXED O AND M COST	\$000	Silver Lake1	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626	\$626
FIXED O AND M COST	\$000	Silver Lake2	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923	\$923
FIXED O AND M COST	\$000	Silver Lake3	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582	\$1.582
FIXED O AND M COST	\$000	Silver Lake4	\$2.965	\$2.966	\$2.965	\$2.965	\$2.965	\$2.965	\$2.965	\$2.965	\$2.965	\$2.965	\$2.965	\$2,966	\$2.965	\$2.965	\$2.965	\$2.966	\$2.965	\$2.965	\$2.965	\$2.965
FIXED O AND M COST	\$000	Wartsila:2035:699	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2038:698	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2040:697	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140	\$140	\$140
FIXED O AND M COST	\$000	Wartsila:2042:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$140	\$140	\$140
ANNUAL DEBT SERVICE	\$000	7FA Combined Cycle :2031:700	\$0	\$0	\$0	\$0	\$0	\$0	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593	\$31,593
ANNUAL DEBT SERVICE	\$000	Wartsila:2035:699	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643
ANNUAL DEBT SERVICE	\$000	Wartsila:2038:698	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643
ANNUAL DEBT SERVICE	\$000	Wartsila:2040:697	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,643	\$1,643	\$1,643	\$1,643	\$1,643
ANNUAL DEBT SERVICE	\$000	Wartsila:2042:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,643	\$1,643	\$1,643
	¢000	ZEA Combined Cycle : 2021:700	¢0	<b>م</b>	¢O	¢O	¢o	¢o	¢40.624	¢51 116	¢52 022	¢54 700	¢50.054	¢61 255	¢60 000	¢67 025	¢70.049	¢71 505	¢77 400	¢01 005	¢01 701	¢07 711
	\$000 ¢000	Casaada Craak1	⊅U ¢1⊑ጋ	<u>ወ</u> ር 7	ΦU Φ100	ΦU Φ404	ΦU ΦΕΩ4	ФССС ФССС	\$49,624 \$700	\$31,440 \$704	\$03,022 \$776	\$04,790 \$000	\$39,034 \$790	01,200 €011	\$03,3∠3 ¢047	\$07,030 \$709	\$70,040 ¢024	\$74,300 \$774	\$77,400 ¢010	ΦC00	\$04,724 \$720	Φ750
	\$000 ¢000		\$100 ¢1.000	\$107 \$1.766	Φ100 Φ1000	Φ404 ¢1 045	Φ024 Φ0400	0000 \$0.071	\$700 \$1.000	Φ124 ¢1207	Φ1 70 Φ1 247	\$0U3 ¢1 400	\$700 \$1.405	ΦΟΙΙ Φ1 561	Φ047 ¢1 c14	\$790 \$1661	Φ034 ©1 605	Φ//Ι Φ1 664	Φ01U Φ1 750	9090 \$1,640	\$139 ¢1744	\$709 \$1046
	\$000 ¢000	Cascade Creekz	\$1,000 ¢E4	\$1,700 \$57	\$1,000 ¢70	ຽ1,940 ¢74	φ∠,130 ¢00	92,371 \$105	\$1,203 \$100	\$1,307 ¢109	ຽ1,347 ຕາດຄ	\$1,400 \$216	\$1,495 \$200	\$1,001 ¢010	ຽ1,014 ¢000	\$1,001 \$216	\$1,695 \$224	\$1,004 \$202	\$1,75Z	\$1,049 \$102	Φ1,744 Φ200	\$1,010 ¢004
	\$000		\$54	\$57 \$57	\$73	\$71	\$8Z	\$105	\$190	\$198	\$208	\$216	\$209	\$219	\$230	\$216	\$224	\$202	\$215	\$193	\$208	\$221
	\$000	Silver Lake2	\$48 ¢504	\$5Z	\$6U ¢c04	\$6Z	\$6Z	\$67 \$540	\$244 \$547	\$256 ¢574	\$271 ¢507	\$281	\$270	\$280 ¢C40	\$300	\$280	\$289	\$258 ©C54	\$272	\$235 \$CO7	\$250 ¢070	\$201 ©740
	\$000	Silver Lake3	\$531 ¢500	\$584 ¢c47	\$621	\$504 ¢coo	\$48Z	\$540 \$004	\$547 \$057	\$571	\$567	\$593	\$610 ¢070	\$643 ¢4.005	\$672	\$669	\$692	\$651	\$690	\$637	\$679	\$/1Z
	\$000	Silver Lake4	\$586 ©	\$017 ¢0	\$654 ¢0	\$680 ¢0	\$730	\$801 ¢o	\$857 ©	\$896 ¢0	\$941 ¢o	\$98Z	\$973 \$755	\$1,025	\$1,080	\$1,047	\$1,100	\$1,033	\$1,092	\$988	\$1,053	\$1,103
	\$000	Wartsila.2035.699	\$U ©0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$755	\$786	\$883	\$908	\$963	\$1,037	\$1,108	\$1,142	\$1,242	\$1,276
	\$000	Wartsila:2038:698	\$U ©0	\$U ©0	\$U ©0	\$U \$0	\$U \$0	\$U ©	\$U \$0	\$U ©0	\$U ©	\$U ©0	\$U ©	\$U ©0	\$U \$0	\$1,014	\$1,086	\$1,148	\$1,231	\$1,246	\$1,364	\$1,408 ¢4 507
	\$000	Wartsila:2040:697	\$U ©0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$0 \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$U \$0	\$0 \$0	\$U \$0	\$U \$0	\$1,294	\$1,394	\$1,385	\$1,522	\$1,587
TOTAL FUEL COST	\$000	Wartsila:2042:696	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$1,572	\$1,729	\$1,824
CO2	TONS	7FA Combined Cycle :2031:700	0	0	0	0	0	0	447 619	452 953	456 059	460 247	484 616	490 918	495 372	518 104	522 730	543 808	550 970	569 143	574 819	581 170
CO2	TONS	Cascade Creek1	0 1 730	1 820	1 990	4 174	5 331	5 671	6 557	6 627	6 929	6 993	6 644	6 752	6 881	6 341	6 473	5 846	5 995	5 052	5 229	5 242
CO2	TONS	Cascade Creek?	17.867	19.001	19 600	19 712	21 324	23 197	11 580	11 705	11 785	11 961	12 482	12 734	12 850	12 929	12 893	12 388	12 735	11 726	12 113	12 313
CO2	TONS	Silver Lake1	927	952	1 185	1 100	1 257	1 551	2 730	2 773	2 820	2 8/2	2 669	2 722	2 768	2 526	2 545	2 220	2 302	2 006	2 007	2 168
CO2	TONS	Silver Lake?	831	862	980	970	943	989	3 516	3 581	3 670	3 696	3 457	3 555	3 611	3 273	3 287	2,223	2,002	2,000	2,007	2,100
CO2	TONS	Silver Lake3	9 130	9 736	10.062	7 918	7 366	8 004	7 866	7 982	7 692	7 808	7 803	7 989	8 102	7 831	7 862	7 182	7 389	6 622	6,860	6 985
CO2	TONS	Silver Lake4	10.078	10 290	10,596	10 690	11 140	11 881	12 336	12 517	12 757	12 928	12 439	12 726	13 022	12 250	12 499	11 394	11 703	10 278	10 638	10 813
CO2	TONS	Wartsila:2035:699	0	0	0	0	0	0	0	0	0	0	6 762	6 870	7 547	7 542	7 820	8 207	8 566	8 603	9 153	9 168
CO2	TONS	Wartsila:2000.000	0	0	0	0	0	0	0	0	0	0	0,702	0,070	0	8 456	8 8/9	9 115	9,500	9,003	10 072	10 1/2
CO2	TONS	Wartsila:2000.000	0	0	0	0	0	0	0	0	0	0	0	0	0	0,400	0,043	10 208	10 832	10 /89	11 264	11 //8
CO2	TONS	Wartsila:2040:007	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11 022	12 809	13 168
CO2 (Theoretical)	TONS	CROD	0 1 334 785	0	1 353 001	1 360 994	1 369 852	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TONO	GROD	1,004,700	1,044,402	1,000,001	1,000,004	1,000,002	1,001,702	0	U	0	0	U	0	U	0	0	0	0	0	0	0
NOx	TONS	7FA Combined Cycle :2031:700	0	0	0	0	0	0	27	27	27	27	29	29	29	31	31	32	33	34	34	34
NOx	TONS	Cascade Creek1	1	1	2	3	4	4	5	5	5	5	5	5	5	5	5	5	5	4	4	4
NOx	TONS	Cascade Creek2	15	16	16	16	18	19	10	10	10	10	10	11	11	11	11	10	11	10	10	10
NOx	TONS	Silver Lake1	2	2	2	2	3	3	6	6	6	6	5	6	6	5	5	5	5	4	4	4
NOx	TONS	Silver Lake2	2	2	2	2	2	2	7	7	8	8	7	7	7	7	7	6	6	5	5	5
NOx	TONS	Silver Lake3	19	20	21	16	15	16	16	16	16	16	16	16	17	16	16	15	15	14	14	14
NOx	TONS	Silver Lake4	21	21	22	22	23	24	25	26	26	27	26	26	27	25	26	23	24	21	22	22
NOx	TONS	Wartsila:2035:699	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
NOx	TONS	Wartsila:2038:698	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	2	2
NOx	TONS	Wartsila:2040:697	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2	2	2
NOx	TONS	Wartsila:2042:696	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	2
SO2	TONS	7FA Combined Cycle :2031:700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Cascade Creek1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Cascade Creek2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Silver Lake1	7	7	9	8	10	12	21	21	21	22	20	21	21	19	19	17	18	15	16	16
SO2	TONS	Silver Lake2	6	7	7	7	7	8	27	27	28	28	26	27	27	25	25	22	22	19	19	19
SO2	TONS	Silver Lake3	69	74	77	60	56	61	60	61	59	59	59	61	62	60	60	55	56	50	52	53
SO2	TONS	Silver Lake4	77	78	81	81	85	90	94	95	97	98	95	97	99	93	95	87	89	78	81	82
SO2	TONS	Wartsila:2035:699	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Wartsila:2038:698	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SO2	TONS	Wartsila:2040:697	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

### Rochester Public Utilities Project 49188 - Infrastructure Update

						5	SMMPA (	Contract	Extensio	n Analys	is											
Data Item	Units	Description	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044
SO2	TONS	Wartsila:2042:696	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
SYSTEM EFFLUENT EXPENSE	\$000	NOx	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SYSTEM EFFLUENT EXPENSE	\$000	SO2	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
SYSTEM EFFLUENT EXPENSE	\$000	CO2	\$1,947	\$2,133	\$2,354	\$2,496	\$2,794	\$3,129	\$31,009	\$32,877	\$34,618	\$36,466	\$39,729	\$41,908	\$44,012	\$48,657	\$52,061	\$57,038	\$61,050	\$66,713	\$71,019	\$75,165
THEORETICAL CROD EFFLUENT EXPENSE	\$000	CO2	\$64,070	\$67,222	\$71,709	\$76,216	\$80,821	\$84,289	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
FIRM CAPACITY	MW	CROD OFF	216.0	216.0	216.0	216.0	216.0	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FIRM CAPACITY	MW	CROD ON	216.0	216.0	216.0	216.0	216.0	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
FIRM CAPACITY	MW	OWEF	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM CAPACITY	MW	CROD OFF	216.0	216.0	216.0	216.0	216.0	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM CAPACITY	MW	CRODION	216.0	216.0	216.0	216.0	216.0	216.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
MAXIMUM CAPACITY	MW	OWEF	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
		one:	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENERGY TAKEN OR SOLD	GWH	CROD OFF	1 076	1 087	1 096	1.105	1.117	1.128	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENERGY TAKEN OR SOLD	GWH	CRODION	637	638	640	641	641	646	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ENERGY TAKEN OR SOLD	GWH	OWEF	15	16	18	20	22	24	39	39	39	39	39	39	39	39	39	39	39	39	39	39
	omi	one:	10	10	10	20		21	00	00	00	00	00	00	00	00	00	00	00	00	00	00
CAPACITY FACTOR	%	OWEE	33 66%	36 97%	40 70%	45 56%	50 71%	54 39%	89 78%	89 78%	89 78%	89 78%	89 82%	89 82%	89 82%	89 82%	89 82%	89 82%	89 82%	89 82%	89 82%	89 82%
	70	OWEI	00.0070	00.0770	40.7070	40.0070	00.1170	04.0070	00.1070	00.1070	00.1070	00.1070	00.0270	00.0270	00.0270	00.0270	00.0270	00.0270	00.0270	00.0270	00.0270	00.0270
CROD OFF PEAK ENERGY RATE	\$/M/A/H		\$11 30	\$45.05	\$15 73	\$46.42	\$47.11	\$47.82	\$18 51	\$49.27	\$50.00	\$50.75	\$51 52	\$52.20	\$53.07	\$53.87	\$54 68	\$55.50	\$56.33	\$57 17	\$58.03	\$58.90
	\$/1010011 \$/1010011		Ψ <del>44</del> .39 \$58 58	\$45.05 \$50.46	\$40.75 \$60.35	\$40.42 \$61.25	Ψ <del>4</del> 7.11 \$62.17	\$63.10	\$64.05	\$65.01	\$50.00 \$65.00	\$66.08	\$51.52 \$67.08	\$60.00	\$33.07	\$33.07 \$71.00	\$J4.00 \$72.15	\$33.30 \$73.33	\$30.33 \$74.33	\$J7.17 \$75.45	\$30.03 \$76.58	\$30.90 \$77.73
		CROD	\$00.00 \$0.00	\$39.40 \$3.66	\$00.33 \$2.66	\$01.25 \$2.66	\$02.17 \$2.66	\$03.10 \$2.66	\$04.05 \$2.66	\$00.01 \$2.66	\$00.99 \$0.66	\$00.90 \$2.66	\$07.90 \$2.66	\$09.00 \$2.66	\$70.03 \$2.66	\$71.05 \$2.66	\$72.15 \$2.66	\$73.23 \$2.66	\$74.33 \$2.66	\$73.43 \$2.66	\$70.00 \$2.66	\$77.75 \$2.66
		CROD	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	φ2.00 ¢10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	φ2.00 \$10.66	φ2.00 \$10.66	ψ2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66	\$2.00 \$10.66
CROD DEMAND CHARGE	\$/KVV-IVIO	CROD	\$10.00	φ10.00	\$10.00	\$10.00	φ10.00	φ10.00	\$10.00	\$10.00	\$10.00	\$10.00	φ10.00	φ10.00	\$10.00	φ10.00	φ10.00	φ10.00	φ10.00	φ10.00	\$10.00	\$10.00
	\$000		¢17 766	¢10.005	¢50 120	¢51 212	¢50 600	¢52.020	¢0	¢0	¢0	¢0	<u>م</u>	<u>م</u>	¢0	¢0	¢O	¢O	¢O	¢۵	<b>\$</b> 0	¢0.
	\$000 ¢000		Φ47,700 Φ27,222	\$40,900 \$27.056	\$30,129	\$31,31Z	\$32,030 \$30,051	\$00,909 \$40,700	\$U \$0	φ0 ¢0	ф0 ФО	φ0 Φ0	φ0 Φ0	φ0 Φ0	φ0 Φ0	ф0 ФО	φ0 Φ0	φ0 Φ0	φ0 Φ0	\$U \$0	30 ¢0	φ0 Φ0
	\$000 \$000		\$37,323 ¢C 005	\$37,950 ©C 005	\$30,049 \$0,005	\$39,200 €C 005	\$39,00 I	\$40,739 ¢c.005	ФС 00Г	ФС 00Г	<b>Φ</b> С 00Г	Φ0 Φ0 005	ΦU ΦC 00Γ	ΦU ΦC 005	<b>Φ</b> О ФС 00Г	<b>Φ</b> С 00Г	ΦC 005	Φ0 Φ0 005	ΦC 00Γ	ФО ФО 00Г	ΦU ΦC 005	ФО ФО 00Г
	\$000	CROD	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$0,895	\$6,895	\$6,895 \$0	\$6,895	\$6,895	\$6,895 \$0	\$6,895 \$0	\$6,895 \$0	\$6,895	\$6,895 \$0	\$6,895 ©	\$6,895	\$6,895	\$6,895	\$6,895 \$0
CROD DEMAND CHARGE	\$000	CROD	\$27,566	\$27,613	\$27,631	\$27,631	\$27,631	\$27,631	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	TONO		1 075 0 10	4 007 000	4 007 445	4 405 500	4 447 040	4 400 070	100.000	400 400	504 740	500 470	500 070	544.005	550 450	570.050	504.050	040.045	000 050	0.47.000	057 500	005 475
SYSTEM CO2 EMISSIONS (EXCL MKT)	TONS	RPU PLUS CROD	1,375,349	1,387,093	1,397,415	1,405,568	1,417,212	1,433,073	492,203	498,136	501,712	506,476	536,872	544,265	550,153	579,252	584,958	613,315	622,959	647,698	657,580	665,175
TOTAL CO2 EMISSIONS (EXCL MKT)	TONS		16,416,464																			
			/																			
CO2 EMISSIONS DELTA W/O SMMPA	IONS	SMMPA MINUS W/O SMMPA	7,574	9,197	9,024	12,856	14,643	18,083	972,097	977,236	986,590	989,450	972,450	978,719	989,037	970,206	979,191	961,082	967,445	954,295	954,464	957,951
AVOIDED CO2 TAX FROM EMISSIONS DELTA	\$000		\$364	\$460	\$478	\$720	\$864	\$1,103	\$61,242	\$64,498	\$68,075	\$71,240	\$71,961	\$75,361	\$79,123	\$81,497	\$87,148	\$89,381	\$94,810	\$98,292	\$103,082	\$108,249
NPV OF SMMPA CO2 RISK @ 6.0%	\$000		\$521,935																			
RPU FIXED O&M COST	\$000		\$6,229	\$6,631	\$7,032	\$7,434	\$7,836	\$8,238	\$12,233	\$12,233	\$12,233	\$12,233	\$12,372	\$12,372	\$12,372	\$12,512	\$12,512	\$12,652	\$12,652	\$12,792	\$12,792	\$12,792
RPU DEBT SERVICE	\$000		\$0	\$0	\$0	\$0	\$0	\$0	\$31,593	\$31,593	\$31,593	\$31,593	\$33,236	\$33,236	\$33,236	\$34,879	\$34,879	\$36,522	\$36,522	\$38,165	\$38,165	\$38,165
CROD FIXED COST	\$000		\$34,461	\$34,508	\$34,525	\$34,525	\$34,525	\$34,525	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895	\$6,895
TOTAL FIXED COST	\$000		\$40,690	\$41,139	\$41,558	\$41,959	\$42,361	\$42,763	\$50,720	\$50,720	\$50,720	\$50,720	\$52,503	\$52,503	\$52,503	\$54,286	\$54,286	\$56,069	\$56,069	\$57,851	\$57,851	\$57,851
RPU VARIABLE O&M COST	\$000		\$334	\$354	\$367	\$387	\$423	\$459	\$5,170	\$5,235	\$5,282	\$5,334	\$5,744	\$5,823	\$5,893	\$6,303	\$6,373	\$6,781	\$6,898	\$7,271	\$7,391	\$7,479
RPU FUEL COST	\$000		\$2,973	\$3,242	\$3,480	\$3,664	\$4,018	\$4,449	\$53,424	\$55,400	\$57,132	\$59,063	\$64,145	\$66,587	\$68,948	\$74,428	\$76,931	\$82,643	\$85,965	\$91,639	\$95,254	\$98,710
RPU CO2 EMISSIONS COST	\$000		\$1,947	\$2,133	\$2,354	\$2,496	\$2,794	\$3,129	\$31,009	\$32,877	\$34,618	\$36,466	\$39,729	\$41,908	\$44,012	\$48,657	\$52,061	\$57,038	\$61,050	\$66,713	\$71,019	\$75,165
MARKET ENERGY COST	\$000		\$35,621	\$39,718	\$44,505	\$52,449	\$60,891	\$68,593	\$67,688	\$71,559	\$75,874	\$80,598	\$76,411	\$80,559	\$85,252	\$81,710	\$87,052	\$84,072	\$89,029	\$87,093	\$92,071	\$97,960
CROD ENERGY COST	\$000		\$85,089	\$86,941	\$88,778	\$90,600	\$92,488	\$94,678	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CROD CO2 EMISSIONS COST	\$000		\$64,070	\$67,222	\$71,709	\$76,216	\$80,821	\$84,289	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
TOTAL VARIABLE COST	\$000		\$190,035	\$199,609	\$211,193	\$225,812	\$241,436	\$255,597	\$157,291	\$165,071	\$172,906	\$181,461	\$186,029	\$194,877	\$204,105	\$211,098	\$222,417	\$230,534	\$242,942	\$252,716	\$265,735	\$279,314
TOTAL COST	\$000		\$230,724	\$240,748	\$252,751	\$267,772	\$283,797	\$298,360	\$208,012	\$215,791	\$223,626	\$232,181	\$238,532	\$247,380	\$256,608	\$265,383	\$276,703	\$286,603	\$299,010	\$310,567	\$323,586	\$337,165
NPV @ 6.0%	\$000		\$2,960,876			-		-					-		-							

APPENDIX C WIND ANALYSIS DETAILED PRODUCTION COST OUTPUT

#### APPENDIX C - Wind Analysis Detailed Production Cost Output

### **Rochester Public Utilities**

Project 49188 - Infrastructure Update Renewable Energy Requirements Analysis

Data Item PeakLoad EnergyDemand MarketPurchase CostOfMarketPurchases MarketSale RevenueFromMarketSales	UnitDescription	UnitCateg	c UOM (MW) (MWH) (MWH) (\$) (MWH) (\$)	2010 292.0 1,470,894 1,782 \$56,592 71,249 \$2,479,521	2011 296.8 1,499,330 2,919 \$100,746 70,654 \$2,470,608	2012 301.7 1,527,771 4,919 \$174,752 70,395 \$2,510,128	2013 306.5 1,556,212 7,014 \$260,778 69,715 \$2,482,750	2014 311.4 1,584,648 9,741 \$377,832 69,407 \$2,500,428	2015 316.2 1,613,083 9,132 \$348,215 68,713 \$2,517,314	2016 321.1 1,641,525 12,462 \$487,947 68,723 \$2,599,438	2017 325.9 1,669,959 18,981 \$745,890 67,007 \$2,581,253	2018 330.8 1,698,404 22,304 \$903,264 66,732 \$2,639,198	2019 335.6 1,726,845 26,335 \$1,090,485 65,958 \$2,665,457	2020 340.5 1,755,281 27,587 \$1,168,208 65,680 \$2,654,696	2021 345.3 1,783,719 33,639 \$1,421,232 64,581 \$2,625,252	2022 350.2 1,812,166 39,128 \$1,659,926 63,032 \$2,617,739	2023 355.0 1,840,600 50,333 \$2,111,975 60,838 \$2,547,913	2024 359.9 1,869,039 54,763 \$2,372,263 59,920 \$2,615,185	2025 364.7 1,897,478 61,651 \$2,762,767 58,520 \$2,631,523	2026 369.6 1,925,917 64,829 \$3,076,886 55,950 \$2,582,254	2027 374.4 1,954,353 72,178 \$3,421,470 55,698 \$2,714,242	2028 379.3 1,982,801 87,911 \$4,222,700 53,111 \$2,627,375	2029 384.1 2,011,238 99,016 \$4,950,153 51,172 \$2,587,011	2030 389.0 2,039,677 109,182 \$5,483,603 48,637 \$2,512,299
MaxCap MaxCap MaxCap MaxCap MaxCap MaxCap MaxCap	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Ru ST Coal ST Coal ST Coal ST Coal	(MW) (MW) n· (MW) (MW) (MW) (MW) (MW)	27.0 48.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0
UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Ru ST Coal ST Coal ST Coal ST Coal	(MWH) (MWH) n· (MWH) (MWH) (MWH) (MWH) (MWH)	500 13,411 33 6,975 5,595	1,976 13,411 509 7,501 4,926	105 466 13,411 32 8,595 8,672	120 709 13,411 9,959 8,838	2,512 13,411 79 24 9,441 9,238	2,816 13,411 170 112 10,516 10,905	60 3,339 13,411 33 11,943 10,823	4,369 13,411 11,042 12,600	109 3,923 13,411 193 129 11,447 14,957	135 4,020 13,411 233 235 11,771 16,621	135 23,422 13,411 141 6,655 5,848	820 23,088 13,411 416 454 6,966 5,506	285 25,931 13,411 191 64 6,940 6,605	660 25,963 13,411 113 6,114 7,451	1,383 28,210 13,411 365 151 7,499 6,503	1,134 29,148 13,411 298 166 7,943 8,137	2,078 27,988 13,411 896 642 9,192 11,530	1,750 34,042 13,411 815 537 10,061 10,903	1,395 33,124 13,411 747 446 10,526 12,524	2,062 36,247 13,411 927 708 9,037 11,906	3,082 37,946 13,411 718 445 8,986 13,159
CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Ru ST Coal ST Coal ST Coal ST Coal	(%) (%) n·(%) (%) (%) (%)	0.00 0.12 76.55 0.04 0.00 3.32 1.42	0.00 0.47 76.55 0.61 0.00 3.57 1.25	0.04 0.11 76.34 0.04 0.00 4.08 2.19	0.05 0.17 76.55 0.00 0.00 4.74 2.24	0.00 0.60 76.55 0.09 0.02 4.49 2.34	0.00 0.67 76.55 0.20 0.09 5.00 2.77	0.03 0.79 76.34 0.04 0.00 5.67 2.74	0.00 1.04 76.55 0.00 0.00 5.25 3.20	0.05 0.93 76.55 0.23 0.11 5.44 3.79	0.06 0.96 76.55 0.28 0.19 5.60 4.22	0.06 5.56 76.34 0.17 0.00 3.16 1.48	0.35 5.49 76.55 0.50 0.37 3.31 1.40	0.12 6.17 76.55 0.23 0.05 3.30 1.68	0.28 6.17 76.55 0.14 0.00 2.91 1.89	0.58 6.69 76.34 0.44 0.12 3.56 1.65	0.48 6.93 76.55 0.36 0.14 3.78 2.06	0.88 6.66 76.55 1.08 0.52 4.37 2.93	0.74 8.10 76.55 0.98 0.44 4.79 2.77	0.59 7.86 76.34 0.89 0.36 4.99 3.17	0.87 8.62 76.55 1.11 0.58 4.30 3.02	1.30 9.02 76.55 0.86 0.36 4.27 3.34
FixedOMCost FixedOMCost FixedOMCost FixedOMCost FixedOMCost	Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	Hydro Ru ST Coal ST Coal ST Coal ST Coal	n (\$) (\$) (\$) (\$) (\$)	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500
VarOMCost VarOMCost VarOMCost VarOMCost VarOMCost VarOMCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$4,860 \$98 \$20,855 \$16,729	\$19,206 \$1,521 \$22,428 \$14,729	\$1,021 \$4,527 \$96 \$25,699 \$25,930	\$1,166 \$6,891 \$29,779 \$26,427	\$24,414 \$236 \$72 \$28,229 \$27,623	\$27,376 \$508 \$334 \$31,443 \$32,607	\$583 \$32,453 \$100 \$35,711 \$32,362	\$42,463 \$33,016 \$37,673	\$1,058 \$38,131 \$578 \$386 \$34,227 \$44,721	\$1,312 \$39,072 \$696 \$704 \$35,197 \$49,696	\$1,312 \$227,665 \$421 \$19,898 \$17,487	\$7,969 \$224,419 \$1,244 \$1,358 \$20,828 \$16,464	\$2,770 \$252,054 \$572 \$191 \$20,751 \$19,749	\$6,415 \$252,364 \$339 \$18,282 \$22,278	\$13,440 \$274,205 \$1,093 \$451 \$22,423 \$19,444	\$11,020 \$283,318 \$891 \$498 \$23,749 \$24,331	\$20,198 \$272,046 \$2,679 \$1,921 \$27,484 \$34,476	\$17,010 \$330,889 \$2,438 \$1,607 \$30,082 \$32,601	\$13,557 \$321,968 \$2,233 \$1,333 \$31,471 \$37,447	\$20,040 \$352,318 \$2,773 \$2,117 \$27,022 \$35,600	\$29,955 \$368,833 \$2,147 \$1,330 \$26,868 \$39,344
ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$24,861 \$1,782 \$318,770 \$258,591	\$97,484 \$28,373 \$352,931 \$234,403	\$7,327 \$23,532 \$1,838 \$416,518 \$425,013	\$8,238 \$35,491 \$496,875 \$445,927	\$125,603 \$4,809 \$1,518 \$485,010 \$479,953	\$143,036 \$10,659 \$7,275 \$556,338 \$583,464	\$4,271 \$171,582 \$2,150 \$650,702 \$596,348	\$229,218 \$619,595 \$714,979	\$8,132 \$210,941 \$13,233 \$9,179 \$661,568 \$874,166	\$10,223 \$221,324 \$16,415 \$17,242 \$700,638 \$1,000,458	\$10,080 \$1,267,411 \$10,229 \$407,788 \$362,431	\$59,918 \$1,216,332 \$31,111 \$35,268 \$439,430 \$351,276	\$20,944 \$1,382,292 \$14,731 \$5,119 \$450,857 \$433,937	\$48,982 \$1,399,022 \$8,990 \$409,069 \$504,098	\$107,621 \$1,593,072 \$29,846 \$12,812 \$516,856 \$453,256	\$91,496 \$1,709,319 \$25,074 \$14,544 \$563,926 \$584,213	\$173,839 \$1,702,091 \$77,648 \$57,835 \$672,144 \$852,753	\$151,093 \$2,138,254 \$72,777 \$49,840 \$757,877 \$830,517	\$123,738 \$2,134,538 \$68,648 \$42,576 \$816,611 \$982,613	\$185,155 \$2,374,100 \$87,815 \$69,651 \$722,101 \$961,957	\$281,100 \$2,526,933 \$70,027 \$45,054 \$739,387 \$1,094,895
CO2 CO2 CO2 CO2 CO2 CO2 CO2	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	654,251 95,132 17,019,292 13,806,101	2,585,502 1,471,368 18,302,204 12,155,802	191,038 609,426 92,542 20,971,860 21,399,795	218,329 927,692 24,301,129 21,809,442	3,286,573 228,432 72,103 23,036,511 22,796,380	3,685,365 491,598 335,529 25,659,164 26,910,047	109,164 4,368,847 96,289 29,142,017 26,707,857	5,716,372 26,943,120 31,091,114	198,006 5,133,218 558,710 387,536 27,931,304 36,907,321	245,620 5,259,808 672,935 706,868 28,722,489 41,013,562	245,620 30,648,099 407,273 16,237,739 14,431,629	1,491,744 30,211,135 1,203,323 1,364,074 16,996,908 13,587,341	518,531 33,931,332 553,277 192,276 16,934,016 16,298,583	1,200,808 33,973,174 327,870 14,919,280 18,385,230	2,515,709 36,913,375 1,056,683 453,592 18,298,591 16,046,985	2,062,693 38,140,100 861,797 499,884 19,380,772 20,079,569	3,780,688 36,622,709 2,590,962 1,929,782 22,428,210 28,452,560	3,183,932 44,544,116 2,357,646 1,614,605 24,548,806 26,905,403	2,537,533 43,343,169 2,159,285 1,339,193 25,682,381 30,904,531	3,751,140 47,428,824 2,682,076 2,127,311 22,051,195 29,380,042	5,606,983 49,652,183 2,076,706 1,336,109 21,925,896 32,470,285
NOx NOx NOx NOx NOx NOx	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	541 196 35,014 28,404	2,136 3,027 37,653 25,008	148 503 190 43,146 44,026	169 766 49,995 44,869	2,715 470 148 47,393 46,899	3,045 1,011 690 52,789 55,363	85 3,609 198 59,954 54,947	4,723 55,430 63,964	154 4,241 1,149 797 57,464 75,930	191 4,345 1,384 1,454 59,091 84,378	191 25,320 838 33,406 29,690	1,157 24,959 2,476 2,806 34,968 27,953	402 28,032 1,138 396 34,839 33,531	932 28,067 675 30,694 37,824	1,952 30,496 2,174 933 37,646 33,014	1,600 31,509 1,773 1,028 39,872 41,310	2,933 30,255 5,330 3,970 46,142 58,536	2,470 36,800 4,850 3,322 50,505 55,353	1,969 35,807 4,442 2,755 52,837 63,580	2,910 39,183 5,518 4,377 45,366 60,444	4,350 41,020 4,272 2,749 45,109 66,802
SO2 SO2 SO2 SO2 SO2 SO2 SO2	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	8 724 129,473 105,029	31 11,193 139,233 92,475	2 7 704 159,542 162,798	2 11 184,869 165,914	39 1,738 549 175,249 173,422	44 3,740 2,553 195,201 204,717	1 52 733 221,696 203,179	68 204,968 236,524	2 61 4,250 2,948 212,486 280,771	2 63 5,119 5,377 218,505 312,009	2 366 3,098 123,528 109,788	15 360 9,154 10,377 129,303 103,365	5 405 4,209 1,463 128,825 123,991	12 405 2,494 113,498 139,865	25 440 8,039 3,451 139,205 122,077	21 455 6,556 3,803 147,438 152,754	38 437 19,711 14,681 170,621 216,452	32 531 17,936 12,283 186,754 204,682	25 517 16,427 10,188 195,377 235,105	37 566 20,404 16,183 167,753 223,507	56 592 15,798 10,164 166,800 247,016
PurchEnergyByComp	CROD OFF		(MWH)	876,734	893,813	910,482	925,682	939,343	956,159	970,005	985,983	1,000,799	1,015,460	1,027,253	1,043,186	1,056,505	1,067,953	1,082,083	1,092,367	1,104,230	1,115,396	1,122,742	1,134,977	1,144,545

### Rochester Public Utilities Project 49188 - Infrastructure Update Renewable Energy Requirements Analysis

Data Item	UnitDescription	UnitCate	gc UOM	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
PurchEnergyByComp	CROD ON		(MWH)	562,051	569,653	574,831	582,896	592,151	600,346	608,932	611,238	617,599	623,527	633,985	637,300	641,821	644,105	647,785	653,964	658,074	660,126	661,036	660,183	661,446
PurchEnergyByComp	OWEF		(MWH)	3,203	3,741	4,740	5,567	6,180	6,611	7,196	7,844	8,501	9,326	10,489	11,656	12,781	13,836	14,827	15,843	17,380	18,973	20,369	22,171	23,664
PurchEnergyByComp	Wind PPA		(MWH)	71,857	71,532	71,913	71,728	71,933	71,616	72,041	71,498	71,764	71,728	72,034	71,857	71,532	71,498	71,976	71,933	71,616	71,857	71,681	71,763	71,728
PurchCap	CROD OFF		(MW)	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
PurchCap	CROD ON		(MW)	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
PurchCap	OWEF		(MW)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PurchCap	Wind PPA		(MW)	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0	24.0
PurchEnergyCost	Wind PPA		(\$/MWH)	) \$60.05	\$61.19	\$62.35	\$63.54	\$64.75	\$65.98	\$67.23	\$68.51	\$69.81	\$71.13	\$72.49	\$73.86	\$75.27	\$76.70	\$78.15	\$79.64	\$81.15	\$82.69	\$84.27	\$85.87	\$87.50
AvgMktPurchEnergyCost	Mkt Purchases		(\$/MWH)	) \$31.75	\$34.51	\$35.53	\$37.18	\$38.79	\$38.13	\$39.15	\$39.30	\$40.50	\$41.41	\$42.35	\$42.25	\$42.42	\$41.96	\$43.32	\$44.81	\$47.46	\$47.40	\$48.03	\$49.99	\$50.22
AvgMktSalesEnergyRev	Mkt Sales		(\$/MWH)	) \$34.80	\$34.97	\$35.66	\$35.61	\$36.03	\$36.64	\$37.82	\$38.52	\$39.55	\$40.41	\$40.42	\$40.65	\$41.53	\$41.88	\$43.64	\$44.97	\$46.15	\$48.73	\$49.47	\$50.56	\$51.65
PurchEnergyCost	CROD OFF		(\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PurchEnergyCost	CROD ON		(\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PurchEnergyCost	OWEF		(\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PurchEnergyCost	Wind PPA		(\$)	\$4,315,013	\$4,377,132	\$4,484,019	\$4,557,483	\$4,657,350	\$4,724,938	\$4,843,229	\$4,898,078	\$5,009,683	\$5,102,340	\$5,221,448	\$5,307,601	\$5,384,000	\$5,483,645	\$5,625,210	\$5,728,669	\$5,811,796	\$5,942,124	\$6,040,221	\$6,162,038	\$6,276,018
RPU Wind Energy for Nativ	ve Load	I	(MWH)	608	879	1,518	2,013	2,526	2,903	3,318	4,491	5,031	5,770	6,354	7,276	8,501	10,660	12,056	13,413	15,666	16,159	18,570	20,591	23,091
RPU Renewable Energy S	erving Native Load		(%)	54%	50%	46%	44%	42%	41%	38%	35%	34%	32%	32%	31%	30%	29%	29%	28%	28%	27%	26%	26%	26%
RPU Total Renewable Ene	ergy Available		(%)	276%	247%	212%	190%	172%	162%	148%	128%	117%	108%	102%	94%	86%	77%	72%	67%	63%	58%	53%	50%	47%
RPU Total Fixed O&M RPU Total Variable O&M RPU Total Fuel RPU Total Mkt Purchases RPU Total Wind Cost RPU Total Mkt Wind Rev RPU Total Cost			(\$) (\$) (\$) (\$) (\$) (\$) (\$)	\$6,114,260 \$42,543 \$604,003 \$56,592 \$4,315,013 \$2,479,521 \$8,652,891	\$6,114,260 \$57,884 \$713,190 \$100,746 \$4,377,132 \$2,470,608 \$8,892,605	\$6,114,560 \$57,273 \$874,228 \$174,752 \$4,484,019 \$2,510,128 \$9,194,703	\$6,114,260 \$64,263 \$986,532 \$260,778 \$4,557,483 \$2,482,750 \$9,500,566	\$6,114,260 \$80,573 \$1,096,894 \$377,832 \$4,657,350 \$2,500,428 \$9,826,481	\$6,114,260 \$92,268 \$1,300,772 \$348,215 \$4,724,938 \$2,517,314 \$10,063,140	\$6,114,210 \$101,209 \$1,425,053 \$487,947 \$4,843,229 \$2,599,438 0 \$10,372,210	\$6,114,609 \$113,153 \$1,563,793 \$745,890 \$4,898,078 \$2,581,253 \$10,854,270	\$6,114,260 \$119,100 \$1,777,220 \$903,264 \$5,009,683 \$2,639,198 \$11,284,330	\$6,114,260 \$126,676 \$1,966,300 \$1,090,485 \$5,102,340 \$2,665,457 0 \$11,734,602	\$6,114,210 \$266,783 \$2,057,939 \$1,168,208 \$5,221,448 \$2,654,696 4 \$12,173,892	\$6,114,260 \$272,282 \$2,133,335 \$1,421,232 \$5,307,601 \$2,625,252 \$12,623,451	\$6,114,260 \$296,087 \$2,307,881 \$1,659,926 \$5,384,000 \$2,617,739 7 \$13,144,414	\$6,114,609 \$299,678 \$2,370,162 \$2,111,975 \$5,483,645 \$2,547,913 \$13,832,157	\$6,114,210 \$331,056 \$2,713,463 \$2,372,263 \$5,625,210 \$2,615,185 \$14,541,017	\$6,114,260 \$343,806 \$2,988,571 \$2,762,767 \$5,728,669 \$2,631,523 7 \$15,306,549	\$6,114,260 \$358,803 \$3,536,310 \$3,076,886 \$5,811,796 \$2,582,254 9 \$16,315,801	\$6,114,260 \$414,627 \$4,000,357 \$3,421,470 \$5,942,124 \$2,714,242 \$17,178,596	\$6,114,560 \$408,008 \$4,168,723 \$4,222,700 \$6,040,221 \$2,627,375 \$\$\$18,326,837	\$6,114,260 \$439,869 \$4,400,778 \$4,950,153 \$6,162,038 \$2,587,011 \$19,480,087	\$6,114,260 \$468,478 \$4,757,396 \$5,483,603 \$6,276,018 \$2,512,299 \$20,587,456
RPU Total Cost w/o Wind Cost of Wind to RPU NPV of Cost of Wind to R	RPU @ 6.0%		(\$) (\$) <b>(\$)</b>	\$6,878,805 (\$1,774,085) <b>(\$25,490,269</b>	\$7,048,679 (\$1,843,926)	\$7,291,028 ) (\$1,903,675	\$7,522,240 ) (\$1,978,327)	\$7,780,528 ) (\$2,045,953)	\$7,978,519 ) (\$2,084,621	\$8,269,208 ) (\$2,103,002)	\$8,707,428 ) (\$2,146,842	\$9,129,746 ) (\$2,154,584)	\$9,535,245 ) (\$2,199,360	\$9,883,005 (\$2,290,886)	\$10,244,988 (\$2,378,470)	3 \$10,727,618 ) (\$2,416,795	\$ \$11,352,099 ) (\$2,480,058	\$12,061,477 ) (\$2,479,541	7 \$12,817,099 ) (\$2,489,450	9 \$13,831,005 ) (\$2,484,796	5 \$14,718,463 ) (\$2,460,133	3 \$15,834,520 ) (\$2,492,317)	\$16,989,922 (\$2,490,165)	\$18,056,701 (\$2,530,755)

Project 49188 - Infrastructure Update Renewable Energy Requirements Analysis

Data Item PeakLoad EnergyDemand MarketPurchase CostOfMarketPurchases	UnitDescription	UnitCateg	c UOM (MW) (MWH) (MWH) (\$)	2010 292.0 1,470,894 2,454 \$79,959	2011 296.8 1,499,330 3,854 \$134,542	2012 301.7 1,527,771 6,486 \$231,276	2013 306.5 1,556,212 9,139 \$339,160	2014 311.4 1,584,648 12,271 \$471,065	2015 316.2 1,613,083 12,092 \$463,633	2016 321.1 1,641,525 15,836 \$619,822	2017 325.9 1,669,959 23,511 \$920,350	2018 330.8 1,698,404 27,332 \$1,101,070	2019 335.6 1,726,845 32,121 \$1,325,037	2020 340.5 1,755,281 33,937 \$1,427,947	2021 345.3 1,783,719 40,960 \$1,719,991	2022 350.2 1,812,166 47,634 \$2,006,142	2023 355.0 1,840,600 60,999 \$2,561,650	2024 359.9 1,869,039 66,827 \$2,896,576	2025 364.7 1,897,478 75,202 \$3,375,966	2026 369.6 1,925,917 80,723 \$3,831,480	2027 374.4 1,954,353 88,362 \$4,179,285	2028 379.3 1,982,801 106,511 \$5,131,710	2029 384.1 2,011,238 119,604 \$5,967,480	2030 389.0 2,039,677 132,256 \$6,646,892
МахСар МахСар МахСар МахСар МахСар МахСар МахСар	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rur ST Coal ST Coal ST Coal ST Coal	(MW) (MW) r (MW) (MW) (MW) (MW) (MW)	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0
UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rur ST Coal ST Coal ST Coal ST Coal	(MWH) (MWH) (MWH) (MWH) (MWH) (MWH) (MWH)	300 1,550 13,411 33 5,714 5,870	390 2,876 13,411 509 6,689 4,647	150 1,110 13,411 32 7,959 8,751	165 981 13,411 9,334 9,426	195 2,932 13,411 79 24 9,101 9,163	45 3,166 13,411 170 112 10,129 10,983	90 3,809 13,411 33 11,485 10,891	30 4,542 13,411 10,878 12,466	154 4,325 13,411 193 129 11,179 15,040	135 4,280 13,411 233 235 11,591 16,581	330 23,340 13,411 141 6,598 5,980	880 22,964 13,411 448 454 6,963 5,590	525 25,758 13,411 191 64 6,952 6,509	780 25,899 13,411 113 6,114 7,451	1,503 28,145 13,411 365 151 7,499 6,503	1,209 29,129 13,411 298 166 7,778 8,137	2,348 27,889 13,411 896 642 9,192 11,146	1,945 33,970 13,411 815 537 10,000 10,903	2,010 33,054 13,411 747 446 10,418 12,056	2,932 35,957 13,411 927 708 9,037 11,906	4,237 37,293 13,411 718 445 8,986 13,159
CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rur ST Coal ST Coal ST Coal ST Coal	(%) (%) 1 [.] (%) (%) (%) (%)	0.13 0.37 76.55 0.04 0.00 2.72 1.49	0.16 0.68 76.55 0.61 0.00 3.18 1.18	0.06 0.26 76.34 0.04 0.00 3.78 2.21	0.07 0.23 76.55 0.00 0.00 4.44 2.39	0.08 0.70 76.55 0.09 0.02 4.33 2.32	0.02 0.75 76.55 0.20 0.09 4.82 2.79	0.04 0.90 76.34 0.04 0.00 5.45 2.76	0.01 1.08 76.55 0.00 0.00 5.17 3.16	0.07 1.03 76.55 0.23 0.11 5.32 3.82	0.06 1.02 76.55 0.28 0.19 5.51 4.21	0.14 5.54 76.34 0.17 0.00 3.13 1.51	0.37 5.46 76.55 0.54 0.37 3.31 1.42	0.22 6.13 76.55 0.23 0.05 3.31 1.65	0.33 6.16 76.55 0.14 0.00 2.91 1.89	0.63 6.68 76.34 0.44 0.12 3.56 1.65	0.51 6.93 76.55 0.36 0.14 3.70 2.06	0.99 6.63 76.55 1.08 0.52 4.37 2.83	0.82 8.08 76.55 0.98 0.44 4.76 2.77	0.85 7.84 76.34 0.89 0.36 4.94 3.05	1.24 8.55 76.55 1.11 0.58 4.30 3.02	1.79 8.87 76.55 0.86 0.36 4.27 3.34
FixedOMCost FixedOMCost FixedOMCost FixedOMCost FixedOMCost	Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	Hydro Rur ST Coal ST Coal ST Coal ST Coal	n· (\$) (\$) (\$) (\$) (\$)	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500
VarOMCost VarOMCost VarOMCost VarOMCost VarOMCost VarOMCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$2,916 \$15,066 \$98 \$17,084 \$17,550	\$3,791 \$27,954 \$1,521 \$19,999 \$13,896	\$1,458 \$10,789 \$96 \$23,797 \$26,165	\$1,604 \$9,532 \$27,910 \$28,182	\$1,895 \$28,496 \$236 \$72 \$27,211 \$27,399	\$437 \$30,778 \$508 \$334 \$30,285 \$32,841	\$875 \$37,025 \$100 \$34,339 \$32,564	\$292 \$44,151 \$32,524 \$37,274	\$1,495 \$42,036 \$578 \$386 \$33,426 \$44,969	\$1,312 \$41,599 \$696 \$704 \$34,658 \$49,579	\$3,208 \$226,865 \$421 \$19,728 \$17,882	\$8,553 \$223,214 \$1,340 \$1,358 \$20,819 \$16,715	\$5,103 \$250,364 \$572 \$191 \$20,787 \$19,462	\$7,582 \$251,742 \$339 \$18,282 \$22,278	\$14,606 \$273,567 \$1,093 \$451 \$22,423 \$19,444	\$11,749 \$283,132 \$891 \$498 \$23,257 \$24,331	\$22,822 \$271,081 \$2,679 \$1,921 \$27,484 \$33,328	\$18,905 \$330,187 \$2,438 \$1,607 \$29,901 \$32,601	\$19,534 \$321,288 \$2,233 \$1,333 \$31,148 \$36,048	\$28,496 \$349,499 \$2,773 \$2,117 \$27,022 \$35,600	\$41,181 \$362,484 \$2,147 \$1,330 \$26,868 \$39,344
ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$20,615 \$77,063 \$1,782 \$261,125 \$271,287	\$26,596 \$141,894 \$28,373 \$314,716 \$221,138	\$10,468 \$56,028 \$1,838 \$385,693 \$428,861	\$11,335 \$49,010 \$465,695 \$475,552	\$13,514 \$146,460 \$4,809 \$1,518 \$467,527 \$476,065	\$3,221 \$160,796 \$10,659 \$7,275 \$535,848 \$587,643	\$6,409 \$195,942 \$2,150 \$625,703 \$600,069	\$2,168 \$238,305 \$610,358 \$707,397	\$11,469 \$232,546 \$13,233 \$9,179 \$646,085 \$879,013	\$10,223 \$235,515 \$16,415 \$17,242 \$689,920 \$998,087	\$24,617 \$1,262,974 \$10,229 \$404,314 \$370,610	\$64,260 \$1,209,828 \$33,504 \$35,268 \$439,244 \$356,634	\$38,542 \$1,373,077 \$14,731 \$5,119 \$451,636 \$427,631	\$57,880 \$1,395,580 \$8,990 \$409,069 \$504,098	\$116,970 \$1,589,365 \$29,846 \$12,812 \$516,856 \$453,256	\$97,981 \$1,709,012 \$25,074 \$14,544 \$552,193 \$584,213	\$197,869 \$1,696,163 \$77,648 \$57,835 \$672,144 \$824,291	\$168,884 \$2,133,950 \$72,777 \$49,840 \$753,310 \$830,517	\$180,336 \$2,131,073 \$68,648 \$42,576 \$808,215 \$945,820	\$267,159 \$2,353,992 \$87,815 \$69,651 \$722,101 \$961,957	\$390,456 \$2,482,375 \$70,027 \$45,054 \$739,387 \$1,094,895
CO2 CO2 CO2 CO2 CO2 CO2 CO2	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	545,822 2,028,179 95,132 13,941,633 14,483,914	709,569 3,763,155 1,471,368 16,320,495 11,467,857	272,911 1,452,438 92,542 19,419,791 21,593,531	300,202 1,283,209 22,776,171 23,258,387	354,784 3,836,143 228,432 72,103 22,206,075 22,611,685	81,873 4,143,341 491,598 335,529 24,714,164 27,102,789	163,747 4,984,342 96,289 28,022,405 26,874,684	54,582 5,943,525 26,541,432 30,761,450	279,880 5,658,820 558,710 387,536 27,277,609 37,111,941	245,620 5,600,019 672,935 706,868 28,283,108 40,916,351	600,404 30,540,481 407,273 16,099,412 14,757,350	1,600,909 30,048,971 1,295,865 1,364,074 16,989,725 13,794,618	955,188 33,703,944 553,277 192,276 16,963,297 16,061,695	1,419,137 33,889,387 327,870 14,919,281 18,385,230	2,734,038 36,827,490 1,056,683 453,592 18,298,591 16,046,985	2,199,148 38,115,120 861,797 499,884 18,978,667 20,079,570	4,271,928 36,492,783 2,590,962 1,929,782 22,428,211 27,505,003	3,538,716 44,449,648 2,357,646 1,614,605 24,401,207 26,905,405	3,656,468 43,251,574 2,159,285 1,339,193 25,418,859 29,749,695	5,334,024 47,049,358 2,682,076 2,127,311 22,051,195 29,380,043	7,708,398 48,797,375 2,076,706 1,336,109 21,925,896 32,470,284
NOx NOx NOx NOx NOx NOx	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	423 1,676 196 28,682 29,798	550 3,109 3,027 33,576 23,593	212 1,200 190 39,953 44,425	233 1,060 46,858 47,850	275 3,169 470 148 45,685 46,519	64 3,423 1,011 690 50,845 55,759	127 4,118 198 57,651 55,290	42 4,910 54,604 63,286	217 4,675 1,149 797 56,119 76,351	191 4,626 1,384 1,454 58,187 84,178	466 25,231 838 33,122 30,361	1,242 24,825 2,666 2,806 34,953 28,380	741 27,844 1,138 396 34,899 33,044	1,101 27,997 675 30,694 37,824	2,121 30,425 2,174 933 37,646 33,014	1,706 31,488 1,773 1,028 39,045 41,310	3,314 30,148 5,330 3,970 46,142 56,587	2,745 36,721 4,850 3,322 50,201 55,353	2,837 35,732 4,442 2,755 52,295 61,205	4,138 38,869 5,518 4,377 45,366 60,444	5,980 40,313 4,272 2,749 45,109 66,802
SO2 SO2 SO2 SO2 SO2 SO2 SO2	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	5 24 724 106,060 110,186	7 45 11,193 124,157 87,241	3 17 704 147,735 164,272	3 15 173,268 176,937	4 46 1,738 549 168,931 172,017	1 49 3,740 2,553 188,012 206,183	2 59 733 213,179 204,448	1 71 201,912 234,016	3 68 4,250 2,948 207,513 282,327	2 67 5,119 5,377 215,162 311,269	6 364 3,098 122,475 112,266	16 359 9,858 10,377 129,248 104,942	10 402 4,209 1,463 129,047 122,189	14 404 2,494 113,498 139,865	27 439 8,039 3,451 139,205 122,077	22 455 6,556 3,803 144,379 152,754	43 435 19,711 14,681 170,621 209,243	35 530 17,936 12,283 185,631 204,682	36 516 16,427 10,188 193,372 226,319	53 561 20,404 16,183 167,753 223,507	77 582 15,798 10,164 166,800 247,016
PurchEnergyByComp PurchEnergyByComp PurchEnergyByComp	CROD OFF CROD ON OWEF		(MWH) (MWH) (MWH)	876,738 561,804 3,019	893,782 569,543 3,628	910,462 574,790 4,619	925,618 582,791 5,345	939,361 592,023 6,087	956,178 600,272 6,524	969,992 608,842 7,135	985,977 611,306 7,836	1,000,777 617,481 8,383	1,015,453 623,521 9,282	1,027,143 633,959 10,440	1,043,176 637,256 11,616	1,056,503 641,866 12,751	1,067,953 644,069 13,809	1,082,078 647,759 14,797	1,092,351 653,960 15,835	1,104,245 657,985 17,438	1,115,374 660,073 18,960	1,122,715 661,067 20,366	1,134,693 660,004 22,058	1,144,318 661,292 23,562

# Rochester Public Utilities Project 49188 - Infrastructure Update

										Renew	able Energ	gy Require	ments Ana	alysis										
Data Item	UnitDescription	UnitCategc UON	Л	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
PurchCap	CROD OFF	(MW	/)	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
PurchCap	CROD ON	(MW	/)	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0	216.0
PurchCap	OWEF	(MW	/)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
PurchEnergyCost	CROD OFF	(\$)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PurchEnergyCost	CROD ON	(\$)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
PurchEnergyCost	OWEF	(\$)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RPU Wind Energy for Nativ	ve Load	(MW	/H)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RPU Renewable Energy S	erving Native Load	(%)		51%	47%	42%	39%	37%	35%	33%	29%	27%	26%	25%	24%	23%	21%	20%	19%	19%	18%	17%	16%	16%
RPU Total Renewable Ene	ergy Available	(%)		51%	47%	42%	39%	37%	35%	33%	29%	27%	26%	25%	24%	23%	21%	20%	19%	19%	18%	17%	16%	16%
RPU Total Fixed O&M		(\$)		\$6,114,260	\$6,114,260	\$6,114,560	\$6,114,260	\$6,114,260	\$6,114,260	\$6,114,210	\$6,114,609	\$6,114,260	\$6,114,260	\$6,114,210	\$6,114,260	\$6,114,260	\$6,114,609	\$6,114,210	\$6,114,260	\$6,114,260	\$6,114,260	\$6,114,560	\$6,114,260	\$6,114,260
RPU Total Variable O&M		(\$)		\$52,715	\$67,161	\$62,305	\$67,228	\$85,310	\$95,183	\$104,903	\$114,240	\$122,889	\$128,547	\$268,104	\$271,998	\$296,480	\$300,222	\$331,585	\$343,857	\$359,314	\$415,640	\$411,583	\$445,507	\$473,354
RPU Total Fuel		(\$)		\$631,872	\$732,717	\$882,887	\$1,001,592	\$1,109,893	\$1,305,442	\$1,430,273	\$1,558,228	\$1,791,526	\$1,967,401	\$2,072,745	\$2,138,737	\$2,310,736	\$2,375,617	\$2,719,105	\$2,983,016	\$3,525,950	\$4,009,278	\$4,176,668	\$4,462,675	\$4,822,194
RPU Total Mkt Purchases		(\$)		\$79,959	\$134,542	\$231,276	\$339,160	\$471,065	\$463,633	\$619,822	\$920,350	\$1,101,070	\$1,325,037	\$1,427,947	\$1,719,991	\$2,006,142	\$2,561,650	\$2,896,576	\$3,375,966	\$3,831,480	\$4,179,285	\$5,131,710	\$5,967,480	\$6,646,892
RPU Total Wind Cost		(\$)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RPU Total Mkt Wind Rev		(\$)		\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RPU Total Cost		(\$)		\$6,878,805	\$7,048,679	\$7,291,028	\$7,522,240	\$7,780,528	\$7,978,519	\$8,269,208	\$8,707,428	\$9,129,746	\$9,535,245	\$9,883,005	\$10,244,988	\$10,727,618	\$11,352,099	\$12,061,477	′\$12,817,099	\$13,831,005	5 \$14,718,463	\$15,834,520	\$16,989,922	\$18,056,701

#### APPENDIX C - Wind Analysis Detailed Production Cost Output

### **Rochester Public Utilities**

Project 49188 - Infrastructure Update Renewable Energy Requirements Analysis

Data Item PeakLoad EnergyDemand MarketPurchase CostOfMarketPurchases MarketSale RevenueFromMarketSales	UnitDescription	UnitCateg	gc UOM (MW) (MWH) (MWH) (\$) (MWH) (\$)	2010 292.0 1,470,894 1,782 \$56,592 71,249 \$2,479,523	2011 296.8 1,499,330 2,919 \$100,742 70,654 \$2,470,629	2012 301.7 1,527,771 7,057 \$427,383 69,884 \$4,032,467	2013 306.5 1,556,212 9,146 \$558,712 69,065 \$4,081,444	2014 311.4 1,584,648 11,546 \$717,285 68,839 \$4,201,755	2015 316.2 1,613,083 11,324 \$713,977 68,303 \$4,320,084	2016 321.1 1,641,525 14,269 \$919,019 68,256 \$4,473,494	2017 325.9 1,669,959 21,264 \$1,372,198 66,543 \$4,502,362	2018 330.8 1,698,404 26,724 \$1,825,866 66,036 \$4,573,397	2019 335.6 1,726,845 29,448 \$2,008,785 65,634 \$4,670,795	2020 340.5 1,755,281 30,091 \$2,073,698 65,175 \$4,677,080	2021 345.3 1,783,719 35,894 \$2,490,014 64,010 \$4,695,632	2022 350.2 1,812,166 40,458 \$2,799,809 62,712 \$4,728,121	2023 355.0 1,840,600 53,011 \$3,705,147 60,569 \$4,675,111	2024 359.9 1,869,039 58,473 \$4,244,417 59,479 \$4,749,849	2025 364.7 1,897,478 65,322 \$4,867,028 58,125 \$4,776,505	2026 369.6 1,925,917 69,889 \$5,523,675 55,710 \$4,761,078	2027 374.4 1,954,353 76,416 \$6,120,650 55,002 \$4,991,297	2028 379.3 1,982,801 93,139 \$7,675,967 53,149 \$5,015,570	2029 384.1 2,011,238 104,421 \$9,029,943 51,035 \$4,998,417	2030 389.0 2,039,677 112,991 \$9,792,577 48,903 \$4,995,586
MaxCap MaxCap MaxCap MaxCap MaxCap MaxCap	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3	CT Gas CT Gas Hydro Rui ST Coal ST Coal ST Coal	(MW) (MW) n (MW) (MW) (MW) (MW)	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0	27.0 48.0 2.0 9.5 14.0 24.0 45.0
UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rui ST Coal ST Coal ST Coal ST Coal	(MWH) (MWH) n· (MWH) (MWH) (MWH) (MWH) (MWH)	500 13,411 33 6,975 5,595	1,976 13,411 509 7,501 4,926	285 12,977 13,411 1,199 492	600 13,764 13,411 1,891 804	510 16,340 13,411 1,372 937	429 17,745 13,411 69 2,488 1,455	759 18,509 13,411 3,137 1,823	240 21,155 13,411 2,503 1,641	750 20,360 13,411 2,875 2,158	670 23,167 13,411 24 3,295 2,794	1,034 25,361 13,411 3,565 3,595	2,607 25,262 13,411 172 95 3,991 2,709	1,958 28,969 13,411 3,722 4,051	4,644 28,603 13,411 30 2,732 1,877	4,143 31,010 13,411 36 3,618 1,670	4,042 32,688 13,411 3,598 3,069	5,066 32,650 13,411 149 88 4,683 5,136	5,718 38,864 13,411 81 74 4,795 4,428	6,287 37,971 13,411 72 4,572 4,726	6,577 40,848 13,411 216 202 3,322 4,473	8,758 43,470 13,411 144 104 3,803 5,094
CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rui ST Coal ST Coal ST Coal ST Coal	(%) (%) n·(%) (%) (%) (%)	0.00 0.12 76.55 0.04 0.00 3.32 1.42	0.00 0.47 76.55 0.61 0.00 3.57 1.25	0.12 3.08 76.34 0.00 0.00 0.57 0.12	0.25 3.27 76.55 0.00 0.00 0.90 0.20	0.22 3.89 76.55 0.00 0.00 0.65 0.24	0.18 4.22 76.55 0.08 0.00 1.18 0.37	0.32 4.39 76.34 0.00 0.00 1.49 0.46	0.10 5.03 76.55 0.00 0.00 1.19 0.42	0.32 4.84 76.55 0.00 0.00 1.37 0.55	0.28 5.51 76.55 0.03 0.00 1.57 0.71	0.44 6.01 76.34 0.00 0.00 1.69 0.91	1.10 6.01 76.55 0.21 0.08 1.90 0.69	0.83 6.89 76.55 0.00 0.00 1.77 1.03	1.96 6.80 76.55 0.04 0.00 1.30 0.48	1.75 7.35 76.34 0.04 0.00 1.72 0.42	1.71 7.77 76.55 0.00 0.00 1.71 0.78	2.14 7.76 76.55 0.18 0.07 2.23 1.30	2.42 9.24 76.55 0.10 0.06 2.28 1.12	2.65 9.01 76.34 0.09 0.00 2.17 1.20	2.78 9.71 76.55 0.26 0.16 1.58 1.13	3.70 10.34 76.55 0.17 0.08 1.81 1.29
FixedOMCost FixedOMCost FixedOMCost FixedOMCost FixedOMCost	Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	Hydro Rui ST Coal ST Coal ST Coal ST Coal	n (\$) (\$) (\$) (\$) (\$)	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500
VarOMCost VarOMCost VarOMCost VarOMCost VarOMCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$4,860 \$98 \$20,855 \$16,729	\$19,206 \$1,521 \$22,428 \$14,729	\$2,770 \$126,135 \$3,584 \$1 471	\$5,832 \$133,789 \$5,654 \$2,404	\$4,957 \$158,823 \$4,104 \$2,801	\$4,174 \$172,484 \$205 \$7,439 \$4 349	\$7,380 \$179,909 \$9,380 \$5,450	\$2,333 \$205,623 \$7,485 \$4 907	\$7,287 \$197,899 \$8,597 \$6,453	\$6,510 \$225,178 \$72 \$9,851 \$8,353	\$10,055 \$246,505 \$10,659 \$10,750	\$25,343 \$245,549 \$515 \$283 \$11,932 \$8,100	\$19,028 \$281,574 \$11,128 \$12,112	\$45,139 \$278,021 \$89 \$8,168 \$5,613	\$40,267 \$301,413 \$109 \$10,817 \$4 994	\$39,284 \$317,730 \$10,758 \$9,177	\$49,238 \$317,361 \$447 \$264 \$14,002 \$15,357	\$55,584 \$377,761 \$242 \$220 \$14,336 \$13,239	\$61,114 \$369,081 \$215 \$13,669 \$14,130	\$63,925 \$397,040 \$645 \$604 \$9,933 \$13,376	\$85,129 \$422,525 \$432 \$311 \$11,371 \$15,231
ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$24,861 \$1,782 \$318,770 \$258 591	\$97,484 \$28,373 \$352,931 \$234 403	\$19,879 \$655,988 \$58,091 \$24,112	\$41,485 \$686,305 \$94,330 \$40,565	\$35,331 \$817,535 \$70,504 \$48,664	\$30,131 \$900,000 \$4,295 \$131,620 \$77,828	\$54,221 \$951,097 \$170,923 \$100 431	\$17,599 \$1,109,984 \$140,459 \$93,122	\$56,237 \$1,096,992 \$166,157 \$126,136	\$51,081 \$1,272,994 \$1,693 \$196,103 \$168,156	\$77,475 \$1,373,803 \$218,438 \$222,807	\$190,652 \$1,332,765 \$12,877 \$7,363 \$251,750 \$172,817	\$144,353 \$1,547,476 \$241,784 \$266,131	\$345,071 \$1,546,135 \$2,363 \$182,772 \$127,017	\$322,875 \$1,756,618 \$2,973 \$249,321 \$116,408	\$327,520 \$1,924,960 \$255,423 \$220,360	\$423,996 \$1,996,367 \$12,944 \$7,949 \$342,442 \$379,817	\$496,469 \$2,457,404 \$7,231 \$6,824 \$361,118 \$337,266	\$562,166 \$2,463,728 \$6,620 \$354,677 \$370,741	\$596,639 \$2,695,205 \$20,431 \$19,870 \$265,408 \$361 425	\$806,259 \$2,918,326 \$14,078 \$10,536 \$312,917 \$423,848
CO2 CO2 CO2 CO2 CO2 CO2	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3	CT Gas CT Gas ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS)	654,251 95,132 17,019,292	2,585,502 1,471,368 18,302,204	518,531 16,980,281 2,924,981	1,091,644 18,010,628 4,613,606	927,897 21,380,643 3,348,794	781,242 23,219,699 198,091 6,070,502	1,381,472 24,219,320 7,654,980	436,658 27,680,826 6,108,020	1,363,998 26,641,005 7,015,288	1,218,600 30,313,421 69,406 8,039,296	1,882,156 33,184,391 8,698,017	4,743,777 33,055,751 498,040 284,795 9,737,537	3,561,752 37,905,366 9,081,335	8,449,211 37,427,052 86,167 6,665,946	7,537,326 40,576,091 105,248 8,826,919	7,353,287 42,772,647 8,778,930	9,216,364 42,722,924 431,914 265,254 11,426,690	10,404,222 50,854,036 234,247 221,061 11,698,728	11,439,432 49,685,443 208,219 11,155,094	11,965,582 53,449,350 624,015 606,870 8,105,558	15,934,639 56,880,160 417,500 312,448 9,279,648
CO2 NOx NOx NOx NOx	Silver Lake4 Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake2	ST Coal CT Gas CT Gas ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS)	13,806,101 541 196 25.014	12,155,802 2,136 3,027	1,214,057 402 14,028	1,983,947 847 14,879	2,311,355 720 17,663	3,589,488 606 19,183 408	4,497,918 1,072 20,008	4,049,511 339 22,868	5,325,537 1,058 22,009	6,893,626 945 25,043 143	8,871,847 1,460 27,415	6,684,543 3,680 27,309 1,025 586 20,023	9,995,855 2,763 31,315	4,632,529 6,555 30,920 177	4,121,328 5,847 33,521 217	7,573,899 5,705 35,336	12,673,777 7,150 35,295 889 546 22,508	10,926,014 8,071 42,012 482 455 24,068	11,661,338 8,874 41,047 428 22,050	11,038,676 9,283 44,156 1,284 1,249 16,676	12,569,746 12,362 46,991 859 643 19,001
NOX SO2 SO2 SO2 SO2	Silver Lakes Cascade Creek1 Cascade Creek2 Silver Lake1	ST Coal CT Gas CT Gas ST Coal	(LBS) (LBS) (LBS) (LBS)	8 724	31 11,193	2,498 5 203	4,082 11 215	4,755 9 255	7,385 8 277 1,507	9,254 14 289	8,331 4 330	10,956 14 318	14,182 12 362 528	18,252 19 396	20,035 13,752 47 394 3,789	20,565 36 452	9,531 84 447 656	75 484 801	15,582 73 510	26,074 92 510 3,286	22,478 104 607 1,782	23,991 23,991 114 593 1,584	10,070 22,710 119 638 4,747	159 679 3,176
SO2 SO2 SO2 CO2	Silver Lake2 Silver Lake3 Silver Lake4 Cascade Creek1	ST Coal ST Coal ST Coal CT Gas	(LBS) (LBS) (LBS) (\$)	129,473 105,029	139,233 92,475	22,252 9,236 \$7,778	35,098 15,093 \$17,466	25,476 17,584 \$15,774	46,181 27,307 \$14,062	58,235 34,218 \$25,557	46,466 30,806 \$8,515	53,368 40,514 \$27,280	61,159 52,443 \$24,981	66,170 67,492 \$39,525	2,167 74,078 50,852 \$101,991	69,086 76,043 \$78,359	50,711 35,242 \$194,332	67,150 31,353 \$177,127	66,785 57,618 \$176,479	2,018 86,928 96,415 \$230,409	1,682 88,997 83,119 \$275,712	84,862 88,713 \$320,304	4,617 61,663 83,976 \$352,985	2,377 70,594 95,624 \$486,006
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### Rochester Public Utilities Project 49188 - Infrastructure Update

										Renew	able Ener	gy Require	ements An	alysis										
Data Item CO2 CO2 CO2	UnitDescription Cascade Creek2 Silver Lake1 Silver Lake2	UnitCateo CT Gas ST Coal ST Coal	gc UOM (\$) (\$) (\$)	2010	2011	2012 \$254,704	2013 \$288,170	2014 \$363,471	2015 \$417,955 \$3,566	2016 \$448,058	2017 \$539,776	2018 \$532,820	2019 \$621,425 \$1,423	2020 \$696,879	2021 \$710,719 \$10,708 \$6,123	2022 \$833,945	2023 \$860,823 \$1,982	2024 \$953,539 \$2,473	2025 \$1,026,543	2026 \$1,068,101 \$10,798 \$6,631	2027 \$1,347,744 \$6,208 \$5,858	2028 \$1,391,194 \$5,830	2029 \$1,576,756 \$18,408 \$17,903	2030 \$1,734,846 \$12,734 \$9,530
CO2 CO2	Silver Lake3 Silver Lake4	ST Coal ST Coal	(\$) (\$)			\$43,875 \$18,211	\$73,818 \$31,743	\$56,930 \$39,293	\$109,269 \$64,611	\$141,617 \$83,211	\$119,106 \$78,965	\$140,306 \$106,511	\$164,806 \$141,319	\$182,658 \$186,309	\$209,357 \$143,718	\$199,789 \$219,909	\$153,317 \$106,548	\$207,433 \$96,851	\$210,694 \$181,774	\$285,668 \$316,845	\$310,016 \$289,540	\$312,343 \$326,518	\$239,114 \$325,641	\$283,029 \$383,377
PurchEnergyByComp PurchEnergyByComp PurchEnergyByComp PurchEnergyByComp	CROD OFF CROD ON OWEF Wind PPA		(MWH) (MWH) (MWH) (MWH)	876,734 562,051 3,203 71,857	893,813 569,653 3,741 71,532	910,446 574,999 4,875 71,913	925,621 582,825 5,485 71,728	939,324 592,020 6,092 71,933	956,084 600,253 6,512 71,616	969,954 608,794 7,082 72,041	985,920 611,163 7,705 71,498	1,000,706 617,400 8,292 71,764	1,015,435 623,387 9,119 71,728	1,027,183 633,829 10,351 72,034	1,043,135 637,168 11,426 71,857	1,056,373 641,822 12,582 71,532	1,067,751 644,031 13,581 71,498	1,081,909 647,679 14,592 71,976	1,092,094 653,830 15,615 71,933	1,103,955 657,852 17,131 71,616	1,115,227 659,891 18,593 71,857	1,122,795 661,171 20,122 71,681	1,134,764 660,279 21,997 71,763	1,144,280 661,161 23,633 71,728
PurchCap PurchCap PurchCap PurchCap	CROD OFF CROD ON OWEF Wind PPA		(MW) (MW) (MW) (MW)	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0	216.0 216.0 5.0 24.0
PurchEnergyCost AvgMktPurchEnergyCost AvgMktSalesEnergyRev	Wind PPA Mkt Purchases Mkt Sales		(\$/MWH) (\$/MWH) (\$/MWH)	\$60.05 \$31.75 \$34.80	\$61.19 \$34.51 \$34.97	\$62.35 \$60.56 \$57.70	\$63.54 \$61.09 \$59.10	\$64.75 \$62.13 \$61.04	\$65.98 \$63.05 \$63.25	\$67.23 \$64.41 \$65.54	\$68.51 \$64.53 \$67.66	\$69.81 \$68.32 \$69.26	\$71.13 \$68.22 \$71.16	\$72.49 \$68.91 \$71.76	\$73.86 \$69.37 \$73.36	\$75.27 \$69.20 \$75.39	\$76.70 \$69.89 \$77.19	\$78.15 \$72.59 \$79.86	\$79.64 \$74.51 \$82.18	\$81.15 \$79.04 \$85.46	\$82.69 \$80.10 \$90.75	\$84.27 \$82.41 \$94.37	\$85.87 \$86.48 \$97.94	\$87.50 \$86.67 \$102.15
PurchEnergyCost PurchEnergyCost PurchEnergyCost PurchEnergyCost	CROD OFF CROD ON OWEF Wind PPA		(\$) (\$) (\$) (\$)	\$0 \$0 \$0 \$4,315,013	\$0 \$0 \$0 \$4,377,132	\$0 \$0 \$0 \$4,484,019	\$0 \$0 \$0 \$4,557,483	\$0 \$0 \$0 \$4,657,346	\$0 \$0 \$0 \$4,724,935	\$0 \$0 \$0 \$4,843,230	\$0 \$0 \$0 \$4,898,077	\$0 \$0 \$0 \$5,009,684	\$0 \$0 \$0 \$5,102,340	\$0 \$0 \$0 \$5,221,447	\$0 \$0 \$0 \$5,307,602	\$0 \$0 \$0 \$5,383,999	\$0 \$0 \$0 \$5,483,649	\$0 \$0 \$0 \$5,625,212	\$0 \$0 \$0 \$5,728,668	\$0 \$0 \$0 \$5,811,795	\$0 \$0 \$0 \$5,942,123	\$0 \$0 \$0 \$6,040,226	\$0 \$0 \$0 \$6,162,040	\$0 \$0 \$0 \$6,276,014
RPU Wind Energy for Nativ RPU Renewable Energy So RPU Total Renewable Ene	ve Load erving Native Load ergy Available		(MWH) (%) (%)	608 54% 276%	879 50% 247%	2,029 48% 213%	2,663 45% 190%	3,094 42% 172%	3,314 41% 161%	3,784 39% 147%	4,955 36% 127%	5,727 34% 116%	6,094 33% 107%	6,859 32% 102%	7,848 32% 94%	8,820 31% 86%	10,929 29% 76%	12,497 29% 72%	13,808 28% 67%	15,906 28% 62%	16,854 27% 58%	18,533 26% 53%	20,728 26% 50%	22,825 26% 46%
RPU Total Fixed O&M RPU Total Variable O&M RPU Total Fuel RPU CO2 Emissions			(\$) (\$) (\$) (\$)	\$6,114,260 \$42,543 \$604,003 \$0	\$6,114,260 \$57,884 \$713,190 \$0	\$6,114,560 \$133,961 \$758,069 \$324,568	\$6,114,260 \$147,679 \$862,684 \$411,197	\$6,114,260 \$170,684 \$972,033 \$475,468	\$6,114,260 \$188,651 \$1,143,874 \$609,463	\$6,114,210 \$202,120 \$1,276,672 \$698,443	\$6,114,609 \$220,347 \$1,361,165 \$746,363	\$6,114,260 \$220,235 \$1,445,522 \$806.917	\$6,114,260 \$249,965 \$1,690,027 \$953.954	\$6,114,210 \$277,969 \$1,892,522 \$1,105,372	\$6,114,260 \$291,723 \$1,968,224 \$1.182,616	\$6,114,260 \$323,843 \$2,199,744 \$1,332,002	\$6,114,609 \$337,031 \$2,203,357 \$1,317,002	\$6,114,210 \$357,600 \$2,448,196 \$1,437,423	\$6,114,260 \$376,949 \$2,728,264 \$1,595,490	\$6,114,260 \$396,668 \$3,163,514 \$1,918,452	\$6,114,260 \$461,382 \$3,666,311 \$2,235,078	\$6,114,560 \$458,209 \$3,757,931 \$2,356,188	\$6,114,260 \$485,522 \$3,958,978 \$2,530,807	\$6,114,260 \$534,999 \$4,485,963 \$2,909,523
RPU Total Mkt Purchases RPU Total Wind Cost RPU Total Mkt Wind Rev RPU Total Cost			(\$) (\$) (\$) (\$)	\$56,592 \$4,315,013 \$2,479,523 \$8,652,889	\$100,742 \$4,377,132 \$2,470,629 \$8,892,580	\$427,383 \$4,484,019 \$4,032,467 \$8,210,092	\$558,712 \$4,557,483 \$4,081,444 \$8,570,572	\$717,285 \$4,657,346 \$4,201,755 \$8,905,321	\$713,977 \$4,724,935 \$4,320,084 \$9,175,075	\$919,019 \$4,843,230 \$4,473,494 \$9,580,201	\$1,372,198 \$4,898,077 \$4,502,362 \$10,210,397	\$1,825,866 \$5,009,684 \$4,573,397 '\$10,849,087	\$2,008,785 \$5,102,340 \$4,670,795 \$11,448,537	\$2,073,698 \$5,221,447 \$4,677,080 7 \$12,008,139	\$2,490,014 \$5,307,602 \$4,695,632 \$12,658,807	\$2,799,809 \$5,383,999 \$4,728,121 \$13,425,536	\$3,705,147 \$5,483,649 \$4,675,111 \$14,485,684	\$4,244,417 \$5,625,212 \$4,749,849 \$15,477,209	\$4,867,028 \$5,728,668 \$4,776,505 \$16,634,154	\$5,523,675 \$5,811,795 \$4,761,078 \$18,167,286	\$6,120,650 \$5,942,123 \$4,991,297 \$19,548,506	\$7,675,967 \$6,040,226 \$5,015,570 \$21,387,512	\$9,029,943 \$6,162,040 \$4,998,417 \$23,283,134	\$9,792,577 \$6,276,014 \$4,995,586 \$25,117,751
With CO2 RPU Total Cost w/o Wind Cost of Wind to RPU NPV of Cost of Wind to R	PU @ 6.0%		(\$) (\$) <b>(\$)</b>	\$6,878,806 (\$1,774,083) <b>(\$3,325,059)</b>	\$7,048,674 ) (\$1,843,905)	\$7,918,045 ) (\$292,047)	\$8,298,625 (\$271,947)	\$8,672,453 <mark>(\$232,868)</mark>	\$9,011,921 <mark>(\$163,155)</mark>	\$9,485,267 <mark>(\$94,934)</mark>	\$10,150,789 (\$59,608)	\$10,817,607 (\$31,481)	\$11,410,644 <mark>(\$37,893)</mark>	\$11,981,166 (\$26,973)	\$12,605,544 (\$53,263)	\$13,372,365 (\$53,170)	\$14,453,130 <mark>(\$32,554)</mark>	\$15,508,203 \$30,994	\$16,737,190 \$103,036	\$18,395,228 \$227,943	\$19,996,990 \$448,483	\$21,996,855 \$609,343	\$24,013,516 \$730,382	\$25,917,511 \$799,760

Project 49188 - Infrastructure Update Renewable Energy Requirements Analysis

Data Item PeakLoad EnergyDemand MarketPurchase CostOfMarketPurchases	UnitDescription	UnitCateg	c UOM (MW) (MWH) (MWH) (\$)	2010 292.0 1,470,894 2,454 \$79,959	2011 296.8 1,499,330 3,854 \$134,537	2012 301.7 1,527,771 9,137 \$552,600	2013 306.5 1,556,212 11,913 \$733,345	2014 311.4 1,584,648 14,680 \$912,288	2015 316.2 1,613,083 14,922 \$948,532	2016 321.1 1,641,525 18,116 \$1,152,595	2017 325.9 1,669,959 26,445 \$1,701,484	2018 330.8 1,698,404 32,681 \$2,224,298	2019 335.6 1,726,845 35,572 \$2,406,955	2020 340.5 1,755,281 36,950 \$2,535,363	2021 345.3 1,783,719 43,829 \$3,016,229	2022 350.2 1,812,166 49,469 \$3,391,818	2023 355.0 1,840,600 64,454 \$4,505,640	2024 359.9 1,869,039 71,275 \$5,160,557	2025 364.7 1,897,478 79,198 \$5,874,986	2026 369.6 1,925,917 85,822 \$6,721,225	2027 374.4 1,954,353 93,419 \$7,443,582	2028 379.3 1,982,801 111,748 \$9,168,554	2029 384.1 2,011,238 125,279 \$10,767,146	2030 389.0 2039676.75 136203.0088 \$11,752,139
MaxCap MaxCap MaxCap MaxCap MaxCap MaxCap MaxCap	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rur ST Coal ST Coal ST Coal ST Coal	(MW) (MW) n· (MW) (MW) (MW) (MW) (MW)	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0	324.0 576.0 24.0 114.0 168.0 288.0 540.0											
UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration UnitGeneration	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rur ST Coal ST Coal ST Coal ST Coal	(MWH) (MWH) (MWH) (MWH) (MWH) (MWH) (MWH)	300 1,550 13,411 33 5,714 5,870	390 2,876 13,411 509 6,689 4,647	720 12,597 13,411 1,235 660	1,035 13,278 13,411 1,909 1,020	1,125 15,852 13,411 1,372 937	1,132 16,830 13,411 69 2,536 1,455	1,494 17,831 13,411 3,209 1,895	720 20,587 13,411 2,503 1,641	1,077 19,918 13,411 2,935 2,158	730 23,037 13,411 24 3,295 2,794	1,941 25,047 13,411 3,330 3,595	3,012 25,005 13,411 172 95 3,934 2,817	2,333 28,559 13,411 3,722 4,051	5,093 27,722 13,411 30 2,732 1,877	4,668 30,240 13,411 36 3,590 1,670	4,867 32,008 13,411 3,545 3,141	6,099 31,778 13,411 149 88 4,774 5,208	6,813 38,000 13,411 81 74 4,693 4,572	7,953 36,916 13,411 72 4,589 4,726	8,467 39,568 13,411 216 202 3,358 4,473	10,963 41,596 13,411 144 104 3,717 5,094
CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor CapacityFactor	Cascade Creek1 Cascade Creek2 Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas Hydro Rur ST Coal ST Coal ST Coal ST Coal	(%) (%) n·(%) (%) (%) (%)	0.13 0.37 76.55 0.04 0.00 2.72 1.49	0.16 0.68 76.55 0.61 0.00 3.18 1.18	0.30 2.99 76.34 0.00 0.00 0.59 0.17	0.44 3.16 76.55 0.00 0.00 0.91 0.26	0.48 3.77 76.55 0.00 0.00 0.65 0.24	0.48 4.00 76.55 0.08 0.00 1.21 0.37	0.63 4.23 76.34 0.00 0.00 1.52 0.48	0.30 4.90 76.55 0.00 0.00 1.19 0.42	0.46 4.74 76.55 0.00 0.00 1.40 0.55	0.31 5.48 76.55 0.03 0.00 1.57 0.71	0.82 5.94 76.34 0.00 0.00 1.58 0.91	1.27 5.95 76.55 0.21 0.08 1.87 0.71	0.99 6.79 76.55 0.00 0.00 1.77 1.03	2.15 6.59 76.55 0.04 0.00 1.30 0.48	1.97 7.17 76.34 0.04 0.00 1.70 0.42	2.06 7.61 76.55 0.00 0.00 1.69 0.80	2.58 7.56 76.55 0.18 0.07 2.27 1.32	2.88 9.04 76.55 0.10 0.06 2.23 1.16	3.35 8.76 76.34 0.09 0.00 2.18 1.20	3.58 9.41 76.55 0.26 0.16 1.60 1.13	4.64 9.89 76.55 0.17 0.08 1.77 1.29
FixedOMCost FixedOMCost FixedOMCost FixedOMCost FixedOMCost	Lake Zumbro Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	Hydro Rur ST Coal ST Coal ST Coal ST Coal	n·(\$) (\$) (\$) (\$) (\$)	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,859 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,460 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,809 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500	\$18,510 \$626,050 \$922,600 \$1,581,600 \$2,965,500
VarOMCost VarOMCost VarOMCost VarOMCost VarOMCost VarOMCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$2,916 \$15,066 \$98 \$17,084 \$17,550	\$3,791 \$27,954 \$1,521 \$19,999 \$13,896	\$6,998 \$122,443 \$3,692 \$1,973	\$10,060 \$129,061 \$5,707 \$3,050	\$10,935 \$154,086 \$4,104 \$2,801	\$11,000 \$163,591 \$205 \$7,582 \$4,349	\$14,525 \$173,314 \$9,596 \$5,665	\$6,998 \$200,108 \$7,485 \$4,907	\$10,465 \$193,605 \$8,776 \$6,453	\$7,093 \$223,917 \$72 \$9,851 \$8,353	\$18,864 \$243,458 \$9,956 \$10,750	\$29,280 \$243,048 \$515 \$283 \$11,763 \$8,423	\$22,673 \$277,589 \$11,128 \$12,112	\$49,507 \$269,457 \$89 \$8,168 \$5,613	\$45,376 \$293,931 \$109 \$10,734 \$4,994	\$47,303 \$311,114 \$10,598 \$9,393	\$59,283 \$308,885 \$447 \$264 \$14,274 \$15,572	\$66,227 \$369,365 \$242 \$220 \$14,032 \$13,670	\$77,303 \$358,821 \$215 \$13,722 \$14,130	\$82,296 \$384,604 \$645 \$604 \$10,040 \$13,376	\$106,562 \$404,314 \$432 \$311 \$11,113 \$15,231
ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost ReceiptsFuelCost	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(\$) (\$) (\$) (\$) (\$) (\$)	\$20,615 \$77,063 \$1,782 \$261,125 \$271 287	\$26,596 \$141,894 \$28,373 \$314,716 \$221 138	\$50,263 \$636,816 \$59,835 \$32,345	\$71,554 \$662,016 \$95,214 \$51,463	\$78,099 \$793,065 \$70,504 \$48,664	\$79,639 \$853,457 \$4,295 \$134,159 \$77 828	\$106,676 \$916,148 \$174,846 \$104,398	\$52,617 \$1,080,082 \$140,459 \$93 122	\$80,690 \$1,073,114 \$169,625 \$126,136	\$55,625 \$1,265,853 \$1,693 \$196,103 \$168,156	\$145,823 \$1,356,536 \$204,046 \$222,807	\$220,718 \$1,318,924 \$12,877 \$7,363 \$248,178 \$179,707	\$175,746 \$1,523,914 \$241,784 \$266,131	\$381,153 \$1,497,452 \$2,363 \$182,772 \$127,017	\$366,749 \$1,710,112 \$2,973 \$247,412 \$116,408	\$400,377 \$1,880,706 \$251,640 \$225,529	\$520,674 \$1,938,292 \$12,944 \$7,949 \$349,092 \$385 141	\$601,830 \$2,397,087 \$7,231 \$6,824 \$353,466 \$348,234	\$723,898 \$2,388,664 \$6,620 \$356,053 \$370,741	\$783,278 \$2,601,797 \$20,431 \$19,870 \$268,291 \$361,425	\$1,027,849 \$2,780,387 \$14,078 \$10,536 \$305,787 \$423,848
CO2 CO2 CO2 CO2 CO2 CO2 CO2 CO2	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	545,822 2,028,179 95,132 13,941,633 14,483,914	709,569 3,763,155 1,471,368 16,320,495 11,467,857	1,309,973 16,483,189 3,012,821 1.628.613	1,883,086 17,374,073 4,656,848 2,516,949	2,046,833 20,742,939 3,348,794 2.311.355	2,058,991 22,022,558 198,091 6,187,622 3,589,488	2,718,736 23,331,441 7,830,660 4,675,585	1,309,973 26,938,484 6,108,020 4.049.511	1,958,944 26,063,031 7,161,689 5,325,537	1,327,764 30,143,657 69,406 8,039,296 6,893,626	3,531,069 32,774,261 8,124,934 8.871,847	5,480,636 32,718,973 498,040 284,795 9,599,359 6,951,044	4,244,030 37,368,906 9,081,335 9,995,856	9,266,848 36,274,114 86,167 6,665,946 4,632,529	8,493,602 39,568,830 105,248 8,759,357 4,121,328	8,854,298 41,882,053 8,648,903 7,751,566	11,096,729 41,581,970 431,914 265,254 11,648,604 12,851,444	12,396,473 49,723,706 234,247 221,061 11,450,855 11,281,348	14,469,651 48,304,378 208,219 11,198,288 11,661,338	15,404,261 51,775,224 624,015 606,870 8,193,399 11,038,677	19,946,430 54,428,500 417,500 312,448 9,068,482 12,569,746
NOx NOx NOx NOx NOx NOx NOx	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	423 1,676 196 28,682 29,798	550 3,109 3,027 33,576 23,593	1,016 13,617 6,198 3,351	1,461 14,353 9,581 5,178	1,588 17,137 6,890 4,755	1,597 18,194 408 12,730 7,385	2,109 19,275 16,110 9,619	1,016 22,255 12,566 8,331	1,520 21,532 14,734 10,956	1,030 24,903 143 16,539 14,182	2,739 27,076 16,716 18,252	4,252 27,030 1,025 586 19,749 14,301	3,292 30,872 18,683 20,565	7,189 29,967 177 13,714 9,531	6,589 32,689 217 18,021 8,479	6,869 34,600 17,794 15,947	8,609 34,352 889 546 23,965 26,440	9,617 41,079 482 455 23,558 23,209	11,225 39,906 428 23,038 23,991	11,950 42,773 1,284 1,249 16,856 22,710	15,474 44,965 859 643 18,657 25,860
SO2 SO2 SO2 SO2 SO2 SO2 SO2	Cascade Creek1 Cascade Creek2 Silver Lake1 Silver Lake2 Silver Lake3 Silver Lake4	CT Gas CT Gas ST Coal ST Coal ST Coal ST Coal	(LBS) (LBS) (LBS) (LBS) (LBS) (LBS)	5 24 724 106,060 110,186	7 45 11,193 124,157 87,241	13 197 22,920 12,390	19 207 35,427 19,148	20 247 25,476 17,584	21 263 1,507 47,072 27,307	27 278 59,571 35,569	13 321 46,466 30,806	20 311 54,482 40,514	13 360 528 61,159 52,443	35 391 61,810 67,492	55 390 3,789 2,167 73,027 52,880	42 446 69,086 76,043	92 433 656 50,711 35,242	85 472 801 66,636 31,353	88 500 65,796 58,970	111 496 3,286 2,018 88,616 97,767	124 593 1,782 1,682 87,112 85,822	144 576 1,584 85,190 88,713	154 618 4,747 4,617 62,331 83,976	199 649 3,176 2,377 68,988 95,624
CO2 CO2 CO2	Cascade Creek1 Cascade Creek2 Silver Lake1	CT Gas CT Gas ST Coal	(\$) (\$) (\$)			\$19,650 \$247,248	\$30,129 \$277,985	\$34,796 \$352,630	\$37,062 \$396,406 \$3,566	\$50,297 \$431,632	\$25,544 \$525,301	\$39,179 \$521,261	\$27,219 \$617,945 \$1,423	\$74,152 \$688,267	\$117,834 \$703,478 \$10,708	\$93,369 \$822,142	\$213,137 \$834,305 \$1,982	\$199,600 \$929,868 \$2,473	\$212,503 \$1,005,169	\$277,418 \$1,039,577 \$10,798	\$328,507 \$1,317,745 \$6,208	\$405,150 \$1,352,524 \$5,830	\$454,426 \$1,527,370 \$18,408	\$608,366 \$1,660,070 \$12,734

APPENDIX C - Wind A	nalysis Detailed	Production	on Cos	t Output						Pr Rene	Roches oject 4918 wable Ene	ster Public 8 - Infrasti ergy Requi	<b>c Utilities</b> ructure Up irements A	date Inalysis					
Data Item CO2 CO2	UnitDescription Silver Lake2 Silver Lake3	UnitCateg ST Coal ST Coal	gc UOM (\$) (\$)	2010	2011	2012 \$45,192	2013 \$74,510	2014 \$56,930	2015 \$111,377	2016 \$144,867	2017 \$119,106	2018 \$143,234	2019 \$164,806	2020 \$170,624	2021 \$6,123 \$206,386	2022 \$199,789	2023 \$153,317	2024 \$205,845	2025 \$207,
CO2	Silver Lake4	ST Coal	(\$)			\$24,429	\$40,271	\$39,293	\$64,611	\$86,498	\$78,965	\$106,511	\$141,319	\$186,309	\$149,448	\$219,909	\$106,548	\$96,851	\$186,
PurchEnergyByComp PurchEnergyByComp PurchEnergyByComp	CROD OFF CROD ON OWEF		(MWH) (MWH) (MWH)	) 876,738 ) 561,804 ) 3,019	893,782 569,543 3,628	910,421 574,800 4,789	925,606 582,703 5,336	939,250 591,988 6,031	955,992 600,279 6,456	969,874 608,695 6,998	985,883 611,095 7,672	1,000,700 617,301 8,221	1,015,472 623,373 9,136	1,027,110 633,671 10,225	1,043,057 637,066 11,320	1,056,305 641,759 12,557	1,067,734 643,981 13,565	1,081,905 647,655 14,587	1,091 653,7 15,56
PurchCap PurchCap PurchCap	CROD OFF CROD ON OWEF		(MW) (MW) (MW)	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592.0 2,592.0 60.0	2,592 2,592 60.0
PurchEnergyCost PurchEnergyCost PurchEnergyCost	CROD OFF CROD ON OWEF		(\$) (\$) (\$)	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0	\$0 \$0 \$0
RPU Wind Energy for Nativ	ve Load		(MWH)	) 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
RPU Renewable Energy So RPU Total Renewable Ene	erving Native Load rgy Available		(%) (%)	51% 51%	47% 47%	43% 43%	39% 39%	36% 36%	35% 35%	32% 32%	29% 29%	27% 27%	26% 26%	25% 25%	24% 24%	23% 23%	21% 21%	20% 20%	19% 19%
RPU Total Fixed O&M RPU Total Variable O&M RPU Total Fuel			(\$) (\$) (\$)	\$6,114,260 \$52,715 \$631,872	\$6,114,260 \$67,161 \$732,717	\$6,114,560 \$135,106 \$779,260	\$6,114,260 \$147,877 \$880,248	\$6,114,260 \$171,925 \$990,331	\$6,114,260 \$186,728 \$1,149,379	\$6,114,210 \$203,100 \$1,302,068	\$6,114,609 \$219,498 \$1,366,280	\$6,114,260 \$219,300 \$1,449,565	\$6,114,260 \$249,287 \$1,687,429	\$6,114,210 \$283,029 \$1,929,212	\$6,114,260 \$293,312 \$1,987,766	\$6,114,260 \$323,503 \$2,207,575	\$6,114,609 \$332,835 \$2,190,756	\$6,114,210 \$355,143 \$2,443,655	\$6,11 \$378, \$2,75
RPU CO2 Emissions			(\$)	\$0	\$0	\$336,519	\$422,896	\$483,649	\$613,022	\$713,294	\$748,917	\$810,184	\$952,712	\$1,119,352	\$1,193,976	\$1,335,210	\$1,309,290	\$1,434,638	\$1,61
RPU Total Mkt Purchases RPU Total Wind Cost			(\$) (\$)	\$79,959 \$0	\$134,537 \$0	\$552,600 \$0	\$733,345 \$0	\$912,288 \$0	\$948,532 \$0	\$1,152,595 \$0	\$1,701,484 \$0	\$2,224,298 \$0	\$2,406,955 \$0	\$2,535,363 \$0	\$3,016,229 \$0	\$3,391,818 \$0	\$4,505,640 \$0	\$5,160,557 \$0	\$5,87 \$0
RPU Total Mkt Wind Rev			(\$)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
RPU Total Cost			(\$)	\$6,878,806	\$7,048,674	\$7,918,045	\$8,298,625	\$8,672,453	\$9,011,921	\$9,485,267	\$10,150,789	\$10,817,607	′\$11,410,644	\$11,981,166	\$\$12,605,544	\$13,372,365	5 \$14,453,130	\$15,508,203	\$ \$16,7

2025	2026 \$6.631	2027 \$5,858	2028	2029 \$17.903	2030 \$9.530
\$207 574	\$201 215	\$303 448	\$313 552	\$2/1 705	\$276 580
¢106 020	¢201,210	\$208,440 \$208,056	¢276 519	¢275 641	\$270,303 \$292,270
φ100,030	φ321,20 <i>1</i>	\$290,900	\$320,510	ф320,04 I	\$363,376
1,091,999	1,103,802	1,115,015	1,122,441	1,134,518	1,143,975
653,740	657,732	659,793	660,948	659,932	661,012
15,568	17,051	18,481	19,996	21,813	23,457
2 502 0	2 502 0	2 502 0	2 502 0	2 592 0	2 502 0
2,592.0	2,592.0	2,592.0	2,592.0	2,592.0	2,592.0
2,392.0	2,392.0	2,392.0	2,392.0	2,392.0	2,592.0
00.0	00.0	00.0	60.0	60.0	60.0
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
0	0	0	0	0	0
0	0	0	0	0	0
19%	19%	18%	17%	16%	16%
19%	19%	18%	17%	16%	16%
\$6,114,260	\$6,114,260	\$6,114,260	\$6,114,560	\$6,114,260	\$6,114,260
\$378,408	\$398,725	\$463,755	\$464,192	\$491,565	\$537,961
\$2,758,252	\$3,214,092	\$3,714,671	\$3,845,976	\$4,055,092	\$4,562,484
\$1,611,284	\$1,946,926	\$2,260,721	\$2,403,574	\$2,585,453	\$2,950,666
\$5,874,986	\$6,721,225	\$7,443,582	\$9,168,554	\$10,767,146	\$11,752,139
\$0	\$0	\$0	\$0	\$0	\$0
\$0	\$0	\$0	\$0	\$0	\$0
\$16,737,190	\$18,395,228	\$19,996,990	\$21,996,855	\$24,013,516	\$25,917,511

Appendix C - Wind Analysis Detailed Production Cost Output Annual Production Cost Delta, Wind Case Minus No Wind Case



■No Carbon Legislation ■With Carbon Legislation

APPENDIX D RFP FOR WIND POWER SUPPLY

# ROCHESTER PUBLIC UTILITIES

# REQUEST FOR PROPOSALS FOR

# WIND POWER SUPPLY





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### **1.0** Purpose of Request for Proposals

ROCHESTER PUBLIC UTILITIES (ROCHESTER) is seeking proposals for up to 100 MWs of wind resources in the 2009 to 2011 timeframe. ROCHESTER will consider Purchased Power Agreements (PPA) and Asset Ownership to satisfy this requirement.

Specific requirements for this Request for Proposals (RFP) are as follows:

- ROCHESTER is seeking up to 100 MWs of nameplate wind capacity
- PPA or Asset Ownership
- Wind resource delivery in the 2009 2011 timeframe
- Preference will be given to assets located in Minnesota or the Midwest ISO (MISO) footprint
- Proposals must be for a minimum block of 25 MWs
- Product is energy only and to include all environmental attributes

This RFP is being offered by ROCHESTER to evaluate opportunities available in the marketplace to meet potential future renewable requirements. Specifically, this RFP is focused on evaluating opportunities through a competitive RFP process to procure wind generation resources, either through PPAs or acquisitions.

ROCHESTER has retained Burns & McDonnell to act as an independent third party consultant to assist in the evaluation of this RFP. All proposers will directly interface with Burns & McDonnell for RFP clarification issues and RFP proposal submittal.

ROCHESTER, a division of the City of Rochester, MN, is the largest municipal utility in the state of Minnesota. ROCHESTER serves over 45,000 electric customers and over 34,000 water customers, and has revenues nearing \$140 million annually. More information about the company is available on the Internet at: <u>http://www.rpu.org</u>.

### 2.0 Instructions to Proposers

- 2.1 General
  - 2.1.1 Nothing contained in this Request for Proposals shall be construed to require or obligate ROCHESTER to select any proposals or limit the ability of ROCHESTER to reject all proposals in its sole and exclusive discretion. ROCHESTER further reserves the right to withdraw and terminate this RFP at any time prior to the execution of a contract.

- 2.1.3 Subject to 2.1.4, all proposals submitted to ROCHESTER pursuant to this RFP shall become the exclusive property of ROCHESTER and may be used for any reasonable purpose by ROCHESTER.
- 2.1.4 ROCHESTER and Burns & McDonnell shall consider materials provided by proposer in response to this RFP to be confidential only if such materials are clearly designated as "Confidential". Proposers should be aware that their proposal, even if marked "Confidential", may be subject to discovery and disclosure in regulatory or judicial proceedings that may or may not be initiated by ROCHESTER. Proposers may be required to justify the requested confidential treatment under the provisions of a protective order issued in such proceedings. If required by an order of an agency or court of competent jurisdiction, ROCHESTER may produce the material in response to such order without prior consultation with the proposer.
- 2.1.5 Proposers shall be responsible for all costs and issues associated with proposals; contract negotiations; completion of the contract; all taxes, duties, fees and other charges associated with the delivery of energy under the contract; and compliance with all local, state and federal laws that may affect the contract.
- 2.1.6 ROCHESTER anticipates that transmission access and capacity factor will be factors in the selection of the final proposal(s). For purchased power, the delivery point shall be the **Minn.Hub** commercial pricing node within MISO (Delivery Point). All costs and coordination required for any applicable Transmission Service Requests to the Delivery Point shall be the responsibility of the proposer.
- 2.2 Overview of Process
  - 2.2.1 ROCHESTER, through Burns & McDonnell, has set-up an email box to collect all written communication and questions from potential proposers as well as a web site to provide uniform communication including updates and specific detail as may be provided from time to time through this proposal process. The email address is <u>RPUWindRFP@burnsmcd.com</u>. The web site is <u>www.RPUWindRFP.com</u>.
  - 2.2.2 The proposal process will include the activities and events as indicated in the schedule shown in **Exhibit A**. Proposal opening will be performed in private by Burns & McDonnell on a confidential basis. Proposals will be reviewed for completeness and offers that do not include the information requirements of this RFP will be notified and

allowed five business days to conform. The evaluation of the proposals will be performed by ROCHESTER with assistance provided by Burns & McDonnell. Proposers selected for the Short List may be invited to begin negotiations of final details of the offers.

- 2.3 Notice of Intent to Propose
  - 2.3.1 Each potential proposer is **requested** to advise ROCHESTER of its intent to submit a proposal by submitting a Notice of Intent to Propose (NOIP), attached hereto as **Exhibit B**.
  - 2.3.2 The Notice of Intent to Propose form may be faxed or emailed, to the following address:

Jon Summerville Burns & McDonnell Fax: (816) 822-3027 Email: <u>RPUWindRFP@burnsmcd.com</u>

The proposer contact information as supplied in the NOIP response provides a vehicle for Burns & McDonnell to communicate any updates/revisions to the RFP in a timely manner. Therefore, we encourage proposers to submit a NOIP.

- 2.4 Deadline and Method for Submitting Proposals
  - 2.4.1 Proposals must be submitted in the complete name of the party expecting to execute any resulting contract with ROCHESTER.
  - 2.4.2 All proposals submitted in response to this RFP must be received by Burns & McDonnell no later than 4:00 PM Central Prevailing Time on the date shown in Exhibit A. **ROCHESTER will not accept proposals received after this date and time.**
  - 2.4.3 Proposers are required to provide three (3) bound sets of all documents, including exhibits, as part of its proposal. It is further required that multiple proposals submitted by each proposer be identified separately. Proposals must be delivered to the following address:

ROCHESTER PUBLIC UTILITIES WIND RFP c/o Jon Summerville Burns & McDonnell 9400 Ward Parkway Kansas City, MO 64114

**Emailed proposals will NOT be accepted** and will not be recognized as complying with the date and time requirements.

### 2.5 Questions and Interpretation of RFP

ROCHESTER requires that all questions concerning this RFP be submitted in writing to Burns & McDonnell at the email address indicated in Section 2.3.2. Answers will be posted as available to the web site. Proposers are encouraged to check the web site for updates. ROCHESTER will not be responsible for other explanations or interpretations of the RFP than those included on the web site.

Written questions will be accepted until seven days before the proposal submittal deadline. Answers will typically be posted on the website the first Monday after a week of receiving the questions.

It shall be the obligation of the proposer to identify any conflicting statements, need for clarification, or omissions of pertinent data from the RFP before proposals are due. Any questions not resolved by the proposal due date shall be identified in the proposal and a statement made as to the basis of the proposal.

- 2.6 Requirements of Product
  - 2.6.1 The product requested consists of (i) energy from new or existing wind generation (ii) renewable energy credits (RECs), and (iii) all other environmental attributes. RECs are as defined by the Green-e program as administered by the Center for Resource Solutions. Delivery of physical energy and all environmental attributes shall be required by ROCHESTER from any resulting contract for ownership or power purchase. Proposal pricing shall be inclusive of the delivery of physical energy to the Delivery Point and for the environmental attributes.
  - 2.6.2 All proposers must be able to deliver energy to the MISO Market. If the energy source is not currently located on the MISO system, it is the responsibility of the proposer to identify the transmission service necessary for delivery and account for any associated fees in the proposal pricing.
  - 2.6.3 For purchased power, the delivery point shall be the **Minn.Hub** (Delivery Point) commercial pricing node within MISO. All costs and coordination required for any applicable Transmission Service Requests to the Delivery Point shall be the responsibility of the proposer.
  - 2.6.4 For proposed ownership offers, the proposal will be screened based on current or anticipated congestion and loss charges associated with the transmission of power to the Delivery Point from the wind generator location.

- 2.6.5 Proposers located in MISO will be required to submit interconnection applications to MISO as appropriate for feasibility and obtain their approval for the planned interconnection to the grid.
- 2.6.6 Proposals shall indicate that the proposed resource(s) qualify as a Generation Resource, as such term is defined in the MISO Open Access Transmission and Energy Markets Tariff (TEMT) and MISO Business Rules and be registered for intermittent resource scheduling.
- 2.6.7 All proposals shall provide the results of the interconnection studies and any deliverability tests of MISO for assurance that the stated capacity is deliverable to the MISO system. If the generating facility(s) are located outside MISO, the Proposer shall identify the type of firm transmission service being provided for delivery to MISO.

### 3.0 Proposal Organization

The proposer understands that ROCHESTER will rely on the representations contained in the proposal and this Agreement in its evaluation and consideration of proposals submitted pursuant to the RFP. The proposer further understands that its inability to substantiate and verify any such representation may result in the termination of further consideration and/or evaluation of the proposal. All such representations made in the proposal are true and accurate to the best of the proposer's knowledge and belief. All proposals must include the following minimum components and are requested to provide the information in the order provided:

3.1 Summary

An executive summary providing the highlights and special features of the proposal is required.

- 3.2 Statements
  - 3.2.1 A statement from the proposer clearly indicating the time period during which the proposal will remain effective. ROCHESTER requires that the structure of the proposals remain effective until December 31, 2008, at a minimum.
  - 3.2.2 All documentation and signatures required depending on the nature of the proposal.

3.2.4 For PPA offers, a statement that all costs associated with delivery of the product to the Delivery Point are included in the product price.

### 3.3 Contract Terms

A comprehensive listing and description, including a rationale if warranted, of all contract terms and conditions that the proposer would seek during contract negotiations should be provided.

3.4 Proposal Limitations

A listing of any economic, operational or system conditions (including sensitivities to anticipated dispatch levels) that might affect the proposer's ability to deliver energy as offered and how the proposer will provide the proposed availability.

- 3.5 Term Sheet
  - 3.5.1 Purchase Power Agreement

Information on the product, cost of the energy and other information shall be provided as per the sample Term Sheets contained in **Exhibit C** and **Exhibit D**. Proposals shall provide a fixed or indexed price for the energy for their proposed term including the cost for all losses, congestion costs, ancillary services, transmission delivery fees, MISO or other associated fees, taxes, duties, and any other costs associated with the furnishing of the associated energy to the proposed ROCHESTER Delivery Point. For consideration in the evaluation process, proposals must contain a statement that all such fees have been included in the proposed price.

### 3.5.2 Asset Sale/Purchase

Each proposal submitted for the sale of an asset to ROCHESTER must be structured such that there is a lump-sum payment due at closing. Though a lump sum price is required, ROCHESTER may also consider alternative purchase proposals for the same asset that utilize some form of construction period financing or progress payments.

3.6 Company Financial Data

Information on the makeup of the company and its parent organization shall be provided along with the most current annual financial reports and SEC Form 10-k (if applicable to the proposer). If this information is available on the company's web site, then proposer should provide the web page address where the information can be downloaded.

3.7 Security and Reliability of Physical Delivery

ROCHESTER requires secure and reliable physical delivery of the associated energy corresponding to all power supply offers. Security and reliability of physical delivery will be guaranteed by either (1) substantial evidence of contractual credit assurance by a third party, (2) parent corporation commitment accompanied by an investment level credit rating from a major rating agency, or (3) various combinations of 1 and 2. All forms of credit assurance are subject to approval by ROCHESTER.

# 4.0 Proposal Content

For consideration in the evaluation process, proposals **must** contain the information outlined in the sample Term Sheets provided in **Exhibit C** or **Exhibit D**.

Supporting information outlined in the following paragraphs for the respective proposal type will be beneficial in assisting the evaluation of the proposal. Should this information not be submitted with the proposal, ROCHESTER may require the proposer to submit this information in order to verify the proposer's ability to meet ROCHESTER's requirements and any future contract resulting from this RFP process.

4.1 Technical Information

Provide sufficient technical information to fully describe the project and allow a determination of the status and condition of proposed sources of wind energy. The information outlined in **Exhibit C** or **Exhibit D** should be provided.

### 4.2 Price Proposal

Proposals must provide a detailed description of the pricing terms and conditions. (See Sample Term Sheets in **Exhibit C** and **Exhibit D**). During any subsequent discussions and/or negotiations, ROCHESTER may request modification to the proposed pricing scheme in order to accommodate its own operational or administrative requirements. For consideration in the evaluation process, proposals must contain the information outlined in the following paragraphs for the respective proposal type.

### 4.2.1 Asset Sale/Purchase

Proposers may offer wind energy from new or existing resources on an asset/sale purchase basis. Under this arrangement, ROCHESTER acquires all future ownership responsibilities and provides a payment in accordance with a purchase agreement to be negotiated. The proposer must demonstrate that it has the requisite authorization to make an offer to purchase the facility represented in its proposal. Proposer must state that all facilities meet the technical requirements of NERC, MISO and Midwest Reliability Organization.

4.2.1.1 New Resources (See Exhibit C or Exhibit D)

Proposals for the Sale of New Resources should provide:

- Proposed purchase price to ROCHESTER must include all costs of developing, designing, constructing, and start-up of the facility to commercial operations. ROCHESTER will evaluate the financing of the equity purchase from its sources.
- (ii) An estimate of the costs and timing of ongoing annual capital additions associated with each proposed generation facility.
- (iii) An estimate of annual fixed O&M costs associated with each proposed generation facility.
- (iv) An estimate of annual variable O&M, and startup costs associated with each proposed wind facility for loading at its expected operating annual capacity factor.
- (v) All costs associated with delivery of the energy to ROCHESTER's Delivery Point excluding any ancillary services to be provided by ROCHESTER.
- 4.2.1.2 Existing Resources

Proposals for the Sale of Existing Resources should provide:

(i) A lump sum purchase price, which includes all costs of acquisition of the proposed wind assets including transfer of title, permits, etc. to ROCHESTER.

- An estimate of the costs and timing of ongoing annual capital additions associated with each wind generation facility.
- (iii) The annual variable O&M, and startup costs associated with each wind generation facility for loading at its expected operating annual capacity factor. The percent annual unit availability and guaranteed minimum percent annual unit availability.
- (iv) All costs associated with delivery of the energy to ROCHESTER's Delivery Point excluding ancillary services to be provided by ROCHESTER.

### 4.2.2 Power Purchase Agreement

(ii)

Proposers may offer wind energy from new or existing resources or from a utility system through a power purchase agreement. Under this arrangement, the proposer retains all ownership responsibilities and ROCHESTER provides only an energy payment in accordance with a purchase agreement to be negotiated. The proposer must demonstrate that it has the requisite regulatory authorization to make sales contemplated by its proposal.

- 4.2.2.1 Proposed availability and hourly output curve for new or existing resources shall be provided. ROCHESTER reserves the right to estimate the availability and output of a resource at its sole discretion if a reasonable availability and output curve is not provided by the proposer.
- 4.2.2.2 Proposed energy rates shall include all losses, wheeling and other charges associated with delivery to the ROCHESTER Delivery Point with the exception of ancillary services to be provided by ROCHESTER.
  - (i) The proposer shall provide the starting energy rate and applicable formula for escalation with proposed indices or a schedule of energy rates for the proposed contract term.
  - (ii) The actual delivered energy, in any month, shall be determined in accordance with the metering procedures as set forth in the contract which will be negotiated between ROCHESTER and the successful proposer.

(iii) The proposer should specify the basis (i.e. annually, quarterly, monthly, etc.) and type of all payments it expects to receive. The proposer may further specify a pricing formula, schedule, or some combination of the two, for determining these payments.
 (iv) If outside the MISO area, the proposer shall identify the type of transmission service being provided, delivering parties and delivery

point(s) of energy to the Delivery Point.

### 5.0 **Proposal Evaluation and Contract Negotiations**

- 5.1 Initial Review
  - 5.1.1 Proposals will be evaluated based on but not limited to the following: price, transmission feasibility, economic analysis, cost of delivery, energy profile, relevant experience, credit rating and/or other evaluation criteria. The short list will be developed based upon the results of this initial analysis. Proposers whose proposals were considered to not meet the required threshold of this RFP will be notified via email that their proposal was unsuccessful in moving on to the Short List.
  - 5.1.2 ROCHESTER may request that a proposer provide additional information or clarification to its original proposal. Burns & McDonnell shall make such requests in writing and will also specify a deadline
    - for compliance. Failure to provide the requested information or clarification by the deadline may result in the disqualification of the proposal.
  - 5.1.3 ROCHESTER may select any number of proposals, or reject all proposals or at any time withdraw and terminate this RFP pursuant to Section 2.1.1, as it, in its sole and exclusive judgment deems appropriate.
- 5.2 Short List Development
  - 5.2.1 Burns & McDonnell will provide proposal information to ROCHESTER. ROCHESTER and Burns & McDonnell will evaluate the proposals based on prices, terms and other resource performance factors.
  - 5.2.2 During the evaluation process, ROCHESTER or Burns & McDonnell may choose to initiate discussions with one or more proposers for the

purposes of obtaining clarifying information. For purposes of this RFP, discussions shall simply indicate ROCHESTER's interest in a particular proposal and its desire to obtain from the proposer additional detailed information that may not necessarily be contained in the proposal. Discussions with a proposer shall in no way be construed as commencing "negotiations" with a proposer. ROCHESTER intends to use such discussions as a method of reducing the number of proposals to those, if any, that ROCHESTER determines warrant further evaluation and, possibly, contract negotiations. If ROCHESTER intends to initiate discussions, it will notify the proposer of such intention and require the proposer of such proposal to confirm, in writing, the offer and representations contained in its original proposal.

- 5.2.3 If ROCHESTER is not interested in a particular proposal, it will notify the proposer as soon as practical after such determination is made.
- 5.3 Contract Negotiations
  - 5.3.1 ROCHESTER will notify a proposer in writing of its interest in commencing contract negotiations with that proposer.
    ROCHESTER's commencement of and active participation in such negotiations shall not be construed as a commitment from ROCHESTER to execute a contract. If, however, a contract is successfully negotiated, it shall not be effective unless and until fully executed by ROCHESTER in accordance with its procedures and any and all required regulatory approvals have been received to ROCHESTER's satisfaction.
  - 5.3.2 ROCHESTER will consider standard contracting formats in use by the industry or contracts proposed by proposers as the basis for any contract negotiations resulting from this RFP.
  - 5.3.3 Proposers selected for the Short List will have the opportunity to refresh their pricing. Any short listed proposer that provides a refreshed price above that of the next best proposal not on the short list may be disqualified from the short list at ROCHESTER's sole discretion.
  - 5.3.4 During the contract negotiation phase, price will continue to be the primary evaluation factor. ROCHESTER will also be considering contract terms to determine the most attractive offer or set of offers.
  - 5.3.5 ROCHESTER reserves the right at any time, during contract negotiations, at its sole discretion, to terminate or, once terminated, to resume negotiations with a proposer.

5.3.6

- ROCHESTER will require that certain provisions be included in its contracts. Such provisions may include, but are not limited to, insurance, indemnification, performance guarantees, liquidated damages for non-performance, firm security (depending on the financial means and historical performance of the proposer), ability of DOCULESTER to measure its entire sights are pertired.
- ROCHESTER to reassign its entire rights, or a portion thereof, to the contract to another party, and a provision that allows ROCHESTER to terminate the contract in the event that certain state and federal regulatory approvals are not received to the satisfaction of ROCHESTER.
- 5.3.7 This RFP contains general guidelines and requirements for developing and submitting proposals. Nothing herein shall be construed to bind ROCHESTER unless and until a contract with a proposer has been successfully negotiated, executed, and is effective. Once effective, the contract will govern the relationship between and responsibilities of the parties. The costs for responding to the RFP and any subsequent contract negotiations are the responsibility of the proposer.

# Exhibit A Schedule

The schedule as outlined below and referred to throughout this document is based on ROCHESTER's expectations as of the release date of this RFP.

Release of RFP	September 19, 2008
Notice of Intent to Propose	October 3, 2008
Proposal Submittal Deadline	November 14, 2008
Initial Selection of Short List	December 19, 2008
Complete Negotiations	1 st Quarter 2009

ROCHESTER reserves the right to extend or otherwise modify any portion of the schedule or terminate the RFP process at its sole discretion.

### Exhibit B NOTICE OF INTENT TO PROPOSE Due by October 3, 2008

1.	Upon reviewing the ROCHESTER RFP, we plan to submit a proposal.									
2.	Propo	ser:								
3.	Conta	ct:								
4.	Mailin email	g Address:								
5.	Tel Number: ()      Fax Number: ()									
6.	Signa	ture of respondent:								
	Title:									
	Date:									
Fax to:		816.822.3027	Burns & McDonnell Attn: Jon Summerville							
Email	to:	RPUWindRFP@burr	nsmcd.com							

# Exhibit C -PPA

# Sample Term Sheet

Note to proposer: Provide a separate term sheet for each different Term or Energy Price offering

Product	Unit Firm Wind energy and associated Renewable Energy Credits and other attributes.
Seller	
Purchaser	ROCHESTER PUBLIC UTILITIES
Transmission Interconnection Point	
Voltage Level of Interconnection	
Delivery Point	MISO Node
Term of Contract (start/stop)	
Project (new/existing/construction)	
Capacity Amount	(Minimum of 25 MW)
Annual energy to be provided	ROCHESTER will evaluate any amount from 25 MW to the amount proposed, unless proposer so notes that only the Capacity Amount indicated can be evaluated. MWh
Pricing Information:	
a. Energy Pricing (the year of p	ricing \$ is the 1 st year of the term)
a. Price Over Term	(\$/MWh starting)
Escalating at	% per year, or
b. Scheduled Payment	(\$/MWh) in Year 1
	(\$/MWh) in Year 2
	(\$/MWh) in Year 3
	through end of Term
Note: Energy pricing to include all ancillary service costs, Midwest ISO charges, taxes and other fees necessary for delivery to the Delivery Point.

#### Load Profile:

Each project must provide its expected or historic energy output profile (MWh) for each hour of the year to sum to the proposed energy to be provided by the project. This must be provided on a CD in an Excel spreadsheet format.

Other Information:
Guaranteed Availability%
Expected Forced Outage Rate%
# Years Meteorological Data Collected, Location, Height (m),,,,
Manufacturer and Type of Wind Turbine
Status of Wind Turbine Negotiations
Land Control (total acres and % in control),%
Assumed Transmission Interconnection Cost  \$

Please also provide any relevant experience with wind projects separately.

# Exhibit D -Ownership

Sample Term Sheet

Note to proposer: Provide a separate term sheet for each different Term or Energy Price offering

Product	Unit Firm Wind energy and Credits	d associated Renewable Energy
Seller		
Purchaser	ROCHESTER PUBLIC UT	TILITIES
Transmission Interconnection Point		
Voltage Level of Interconnection		-
Delivery Point	MISO Node	
Term of Ownership (start/stop)		
Project (new/existing/construction)		-
Capacity Amount or % Ownership	(Minimum of 25 MW)	_MW or %
	ROCHESTER will evaluat amount proposal, unless p Capacity Amount indicate	te any amount from 25 MW to the proposer so notes that only the d can be evaluated.

#### Load Profile:

Each project must provide its expected or historic energy output profile (MWh) for each hour of the year to sum to the proposed energy to be provided by the project. This must be provided on a CD in an Excel spreadsheet format.

### **Pricing Information:**

- b. Purchase Price (the year of pricing \$ is the 1st year of the term)
  - a. Lump Sum \$_____
  - b. Year of Payment

Other Information:
Guaranteed Availability%
Expected Forced Outage Rate%
# Years Meteorological Data Collected, Location, Tower Height (m),,,
Manufacturer and Type of Wind Turbine
Status of Wind Turbine Negotiations
Land Control (total acres and % in control),%
Assumed Transmission Interconnection Cost  \$

Please also provide any relevant experience with wind projects separately.

APPENDIX E RFP LIST OF E-MAIL RECIPIENTS

Company Name	<u>Mr/Ms</u>	<u>Full Name</u>	Title
UTILITIES:	Ma	Von Skroheet	Vice President, Bulk Power & Delivery
Alabama Electric Cooperative, inc.	AIF.	Inmes Loder	vice riesident, Buik rower & Denvery
Allegathy Energy Supply Co., LLC	Mr	James Louier Jeff Pauleeth	
Alignt Engrav	Mr	Rich Friedman	
Alliant Energy Comoration		IP Branwood	
Alliant Energy Corporation	Mr.	leff Gibbous	
Alliant Energy	Mr.	Del Winter	
Ameren Energy Marketing	Mr.	Dennis Beutler	
Ameren Energy Marketing	Mr.	Don Mosier	Director, Ameren Energy Marketing
Ameren Energy Marketing	Mr.	Derek Waite	
Ameren Energy Marketing	Mr.	Tom Leigh	Manager
Ameren Epergy Marketing		Sung Kim	
Ameren Energy Marketing		RT Desk	
Ameren Energy Marketing	Mr.	Craig Gordon	Sales
Ameren Energy Marketing	Mr.	Brian Gordon	Sales
American Electric Power	Mr.	Jason C. Jereeki	Marketing and Origination
American Electric Power	Mr.	Keven Brady	Marketing and Origination
American Electric Power		Ashley Clark	
American Electric Power	Mr.	Brian Whitlateh	Marketing and Origination
American Electric Power Service Corp	Mr.	Vince Findley	Manager
Aquita, Inc.	Mr.	Robert Shanklin	Director, Asset Management
Associated Electric Cooperative	Mr.	Duane Highley	Director, Power Production
Avant Energy	Ms.	Joni Hamson	
Avant Energy/Minnesota Power Agency		Joc Fulliero	
Basin Electric Power Cooperative		Jeremy Wocste	
Big Rivers Electric Corporation	Mr.	Bill Blackburn	Vice President, Power Supply
BPU -Board of Public Utilities	Mr.	Larry Adair	Contra Frankran
Consumers Energy Company	Mf.	Mark Devereaux	Senior Engineer
Consumers Energy Company		Mary Cardwell	
CMS Energy	16-	David Zwitter	
UNIS Energy	Ma. Ma	David Zwilici Banaa Marko	Director Marketing
Duke Energy Americas, LLC	Mr.	Scott E Tham	Manager Midwest Origination
Duke Energy Generation	Mr	Robert Parrett	intanager, marest ongination
Duke Energy Generation	Mr	Robert Neibaus	
Electric Energy Inc	Mr.	Mike Pullen	
Empire District Electric Co	Mr.	Bradley P. Beecher	Vice President, Energy Supply
Energy Authority (Springfield, IL)		Jim Richardson	
Exclon Generation Company, LLC		Kevin Kilgallen	
Exclon Generation Company, LLC		Brace Murray	
First Energy	Mr.	Marty Bolan	
First Energy Solutions Corporation		Ryan Foster	
First Energy (Wholesale)		Lisa Medas	
First Energy (Wholesale)		Craig Truesdell	
FirstEnergy Solutions		Lou D'Alessandris	
Great Plains Power	Mr.	Stephen T. Easley	President and CEO
Great River Energy		Bnice Froyum	
Great River Energy		Jon Olson	
Great River Energy		Stacee Baldwin	
Hoosier Energy REC, Inc.	Mr.	David Sandefur	Vice President, Power Supply
Hoosier Energy REC, Inc.	Mr.	Mike Mooney	
Indiana Municipal Power Agency		Frank Smarto	Dimenton
Indianapolis Power and Light	MIT.	Herman Schkabla	Director
KCPL	MIT.	Charlie Freihert	
LG&E Energy mc.	MIL.	Inff Block	
Madison Gas and Electric	1011.	Dand Maxwell	
Manitoba Hydro	Mr	Greg McNeili	Power Marketer
Mid American Energy	10111	Dan Mandemach	
MidAmerican Energy	Mr.	Robert P. Henson	Long Term Contracts/Capacity
MidAmerican Energy	Mr.	Greg Merrigan	
MidAmerican Energy	Mr.	Andrew Jensen	
Midwest Generation	Mr.	Paul Jacob	President, Edison Mission Marketing at
Minnesota Municipal Power Agency	Mr.	Rohit Menon	-
Minnesota Power		Kevin Lindstrom	
NIPSCO	Mr.	Roger Hulin	
NIPSCO	Mr.	Tom Pysh	
NIPSCO	Mr.	Jim Orlando	
Old Dominion Electric Cooperative		Lisa Johnson	
Omaha Public Power District	Mr.	Rick Yanovich	

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Company Name	<u>Mr/Ms</u>	Full Name	Title
Owensboro Municipal Utilities	Mr.	Daniel Fleming	Manager of Business Development and
Reliant Energy	Mr.	Ken Gfroerer	Director Origination, PJM/MISO
Santee Cooper	Mr.	Lonnie N. Carter	President and CEO
Southern Illinois Electric Cooperative		Cathy Belcher	
Southern Illinois Power Cooperative	Mr.	William Hutchison	Manager, Power Marketing
Southern Power Company	Mr.	John Massey	
The Energy Authority	Mr.	Tim Beckett	
The Energy Authority	Mr.	Jim Richardson	
TVA	Mr.	Porter, John A	Trader, Energy Origination
Union Electric	Mr.	Jaime Haro	
Union Electric	Mr.	John Brickey	
Union Electric		Andrew Meyer	
Wabash Valley		Lee Wilmes	_
Washington Gas Energy Services		Jeff Borek	
Waverly Light and Power		Cara Jensen	
We Energies		Dave Sims	
We Energics	Mr.	Donald Splinter	Power Marketer
Westar	Mr.	John Olsen	
Western Resources		Tim Beckett	
Wisconsin Electric Power Co	Mr.	Dave Sims	
Wisconsin Public Service		Dave Hathaway	
Wisconsin Public Service		Day Ahead Desk	
Wisconsin Public Service		Real Time Desk	
Walverine Engrav	Mr.	John Miceli	
Vod Energy	Mr.	Ian Benson	Director, Origination - North
Yeel Energy	Ms	Connie L Paoletti	
X col Energy	Mr	Edward Johnson	
Atti Energy	11213		
MABVETEDS.			
MARKELLING.	Ms	Jennifer L. Perrepot	Director of Business Development
ACES Power Marketing	1113.	Chanstoeun Kong	
ACES Fower Walketing	Mr	Tad Phillins	Exec VP
Advanced Service Colp	Mr.	Steve Etster	
AK Steel	MIL.	Doger Kliewisch	
ALLIED Utility Services	N/E.	Roger Kitchisen	
American National Power	1511. 5 fm	Stove Ustmick	Director of Power Marketing
American National Power	Mr.	Drive Realing	Different of Lower marketing
Bank of America/Merrill Lynch		Bhall Beebe	
Bank of America/Merrill Lynch		Mark Egan	
Barclays Capital		Tim OHara	
Bear Energy LP		Sean O'Neal	
BOC Energy Services, Inc.		Larry Stanca	
BOC Energy Services, Inc.		MIKE MESSER	
Cargill Power & Gas Markets	MF.	Bill Brands	
Cargill Power & Gas Markets	Mir.	Jason Cognetta	
Cargill Power Markets LLC		Daniel Jackson	D. stiller
Celerity Energy Partners	Mr.	Dennis Qanni	Presidem
Cinergy Power Marketing and Trading		Rence Marko	115
Citigroup Energy	Mr.	Robert Strobel	٧P
Colorado Energy Management	Mr.	Rodney Bellendir	
Conectiv Energy Supply, Inc.		Enc Statinger	
ConEdison Solutions		Kevin Martinsen	
Consolidated Edison Energy		Maria Robinson	
Consolidated Edison Energy		Anthony Castellano	
Constellation Energy Commodities Group		Kyle Johnson	
Constellation Energy Commodities Group		Michael Adams	
Constellation Energy Commodities Group		Rohit Marwaha	n in the second s
Constellation Energy Commodities Group	Mr.	Ronald Erdman	Power Marketing - Midwest Region Mi
Constellation Energy Commodities Group	Mr.	Vivek Chamria	
Constellation Energy Commodities Group	Mr.	Steven Morris	
Constellation Energy Commodities Group	Mr.	Mitch Poindexter	Vice President - Origination
Constellation Energy Commodities Group	Mr.	Ash Huessein	Director
Constellation Power Source	Mr.	Panl Rudewick	COO
Constellation Power Source, Inc.	Ms.	Josi Keyser	Director, Midwest Mid-Marketing
Constellation Energy Commodities Group		Joshua Perry	
Constellation Energy Commodities Group		Elizabeth Ren	
Constellation Energy Resource		Cynthia Fonner	
Corał Energy	Ms.	Becky Serri	
Coral Power LLC, Shell Trading	Mr.	Sam Moreton	Director
Credit Suisse Securities		Tom Lehrkinder	
Deutsche Bank		Donnie Vinson	
DLA Piper US LLP		Christopher Townsend	

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<u>Company Name</u>	<u>Mr/Ms</u>	Full Name	Title
DLA Piper US LLP		Christopher Skey	
DLA Piper US LLP		Amanda Jones	
Dominion Clearinghouse		Ron Armstrong	
Dominion Energy Marketing, Inc.		Joe Racelis	
Dominion Energy Marketing, Inc.		Murray Howard	
DTE Energy Trading, Inc.		Kate Short	
DTE Energy Trading, Inc.		Joel Wood	
DTE Energy Trading	Mr.	Gary Alligood	Regional Marketing Director
DTE Energy Trading	Mr.	Richard Smeltz	
DTE Energy Trading	Mr.	Shawn Kestler	Regional Director -Midwest
Duke Energy	N1S.	Ellen Kuff	
Duke Energy	MIF.	Denid Block	Midwast Downs Maylesting
Duke Energy	N11.	Milton Hoursd	Midwest Power Marketing
Duke Energy	1011.	Sherry Brudner	
Dunery Power Marketing Inc		Joseph Lakshmanan	
Dynegy Power Marketing Inc.		Top Noelle	
Dynegy, Inc.		Marisol Guerrero	
Dynegy Power Marketing, Inc.	Mr.	Mike Bradley	Senior Director - Fast Origination
Dynegy Power Marketing, Inc.	Mrs.	Denise Berolatti	Director -Origination
Edison Mission Marketing & Trading	Mr.	Paul Weiss	Regional Vice President
Edison Mission		Steve Gill	5
Edison Mission Marketing & Trading, Inc.		Robert F. Viola	
Edison Mission Marketing & Trading, Inc.		Michael Chechelnitsky	
Element Markets		Erin Eckenrod	
Encore Energy Solutions		N/A	
EnergyUSA - TPC	Mr.	Brendan Donavan	Trader
EnerNOC, Inc.	Mr.	Matthew Plante	Utility Sales Manager
EnerNOC, Inc.	Ms.	Kristen Brief	Corp Development Manager
Fortis Energy Marketing	Mr.	Terrance Naulty	VP
Fortis		Lloyd Jackson	
Fortis		Jay Alexander	
Fortis		Kurt Regulski	
FPL Energy Power Marketing	Ms.	Nicole Wolf	
FPL Energy Power Marketing		Dave Camardese	
PPL Energy Power Marketing		Larry Boisvert	
FPL Energy Power Marketing		Christopher Kujawa	4 4 4 10
Fulerum Power Marketing LLU	Mr.	Jesson Bradshaw	Authorized Rep
Classes basediates LLC	MI.	Larry 1 norson	vP, Sales and Marketing
Gentroek Associates LLC		Paul Patterson	
Goldman Sachs		Miebool Doudou	
Goldman Sachs	Mr	Michael Lanides	
Hess Energy		Kevin Sheridan	
Hess Energy		Hermant Jain	
Indeck Energy Services	Mr.	Richard Robinson	
Indeck Energy Services	Mr.	Greg Wassilkowsky	Manager Business Development
Integrys		Jody Spaeth	C 1
Integrys Energy Services, Inc		Matt Maley	
Invenergy LLC	Mr.	Mark Leaman	
Invenergy Thermal LLC	Mr.	Enio Ricci	Vice President, Business Development
Irving Oil		Lisa Savidant	
J. Aron and Company		Ethan M. Shoemaker	
J. Aron and Company		John Grossarth	
J. Aron & Co. (Goldman Sachs Group)	Mr.	Alnawaz Jiwa	Originator
JP Morgan	Mr.	Geoff Allen	
JP Morgan	Mis.	Laura Meilander	Power Marketing -MISO
JP Morgan	Ms.	Julia Hand	
JPMorgan Krawk		Rafia Merchant	
		Tatl Tschamler	
Methemati Will & Emand LD		Gregory Loursense	
Meidenholt will & Elliery LLP	<u>م</u>	Mile Critebley	
Michaikeleis	Mr.	Dan Dailling	Director Rusiness Development
Morgan Stapley Capital Group	on. Mr	Simon Greensbielde	Mar Gas & Electric Tradium
Morgan Stanley Commodities		Alex Tolstukh	ma ous e zietute fradilig
MWH Americas, Inc		Kathleen M King	
Native Energy		Avesha Dinshaw	
North American Power Group Ltd.	Mr.	Michael J. Rnflatto	President
NRG Energy		Tom Krizmanich	
NRG Energy		Peter Collins	

Company Name	Mr/Ms	<u>Full Name</u>	Title
NRG Energy		Jake Greig	
NRG Power Markeling	Mr.	Thad Hill	Executive Vice President, Corporate Bu
Peabody Energy	Mr.	Jacob Williams	
PEPCO Energy Services		James Newton	
Positive Energy		Alex Laskey	
Power Ex		Tom Bechard	
Powerex PDL Communities		Paul McCuaig	
		Anne Fiore	
PPL EnergyPlus, LLC	Mr.	Frank Hanner	Senior Power Marketer
Progress Energy Ventures, Inc	Mr.	Daniel Roeder	Supervisor Resource Planning
Sempra Energy	Mir.	John Miller	
Sempra Energy Trading Corp.	Mr.	Michael Phenix	
Sempra Energy (rading		Carter McFarland	
Sempra Energy Trading		J.P. St Germain	
Shell Trading		Bill Blake	
SKY Energy, Inc.		Brian Weninger	
SUEZ Energy Marketing NA	Mr.	David Fairley	Vice President - Origination
SUEZ Energy Marketing NA	Mr.	Steve Adams	
Summit Power Group	Mr.	Thomas Cameron	
TransAlta		Lance Henderson	
Transcanada Power		Bill Taylor	
TVA	Mr.	John Porter	
Vectren Power Supply	Mr.	Brad Lisembee	Manager, Wholesale Power Marketing
Vectren	Mr.	Ron Jochum	
Whiting Clean Energy	Mr.	Peter Disser	VP
DEVELOPEDS.			
DEVELOPERS:	¥-	Tala No 1 Ro	
Advanced rower	N17.	John Redding	
Burton Energy LLC		William Root	
Calpine Corporation		Tom Long	
Calpine	MF.	Mark Daley	
	Mr.	Errc Gonzales	
Celenty Energy	N17.	Dennis Quim	
	Mr.	Michael Micinnis	Partner
General Electric	мэг. Ха	Vijay Patel	
GenPower	MF.	Bob Place	Chairman and Managing Director
GenPower	Mr.	John O'Leary	Vice Chairman and Managing Director
LS Power Development - Kendall Energy	Mr.	Jenrey A. Corder	Director, Business Development
LS Power Development	MIr.	Bryan Rushing	Manager, Orgination
LS Power Development	Mr.	Jason Pillai	Energy Trading
Magnolia Energy	Air.	Mike Chapman	
New Covert Generating Co.	Mr.	Mike Foster	
NRG Power Marketing	Mr.	William Stone	Originator
Onon Energy	Mr.	Reid Buckley	
Primary Energy	Mr.	Uraham Brown	VP Operations
Primary Energy	Mr.	David Eslinger	Project Manager
Pure Energy Resources	Mr.	Bill Siderewicz	
Tenaska Power Services	Mr.	Tom Boyd	Vice President
Tenaska Power Services	Mr.	JelT James	Director, Business Development
Tenaska Power Services	Mr.	Greg Geisler	Vice President
Tenaska Power Services	Ms.	Sarah Lane	
Tenaska Power Services	Mr.	Greg Geisler	Vice President
Tenaska Power Services		Bob Ramaekers	
Tenaska Power Services		Kara Whitlock	
1PS Energy		Ben Pinchin	
Tondu Corp	Mr.	Joe Tondu	
TransCanada Power	Ms.	Cheryl Brink	
Wartsila	Mr.	Mikael Backman	
wrd - Energy dervices life.		Matthew J. Maley	
RENEWABLE:			
3 Degrees		C Gaudet	
Acciona		EKnon	
American Canital Energy		Neil Chaney	
DD Alter refer For a		Matthew Sakurada	
DP Alternative Energy		Deni-1 Dennen	
BP Alternative Energy BP Energy		Daniel Kunvan	
BP Energy Brookfield Power		Richard Bordeleau	
BY Energy Brookfield Power By Energy		Richard Bordeleau Hunsaker Matthew	
BY Alternative Energy BP Energy Brookfield Power BV Energy Carbon Solutions Group		Richard Bordeleau Hunsaker, Matthew Scott Malouey	
BY Alternative Energy BP Energy Brookfield Power BV Energy Carbon Solutions Group Clear Wind		Richard Bordeleau Hunsaker, Matthew Scott Malouey Mark Eilers	

Company Name Clean Currents Clear Sky Power Community Energy Community Energy **Clipper Wind** Competitive Power Ventures **Conservation Services Group Constellation Energy** DEGS Eagle Energy ECONnergy Energy Company EcoEnergy enXco Fortistar Methane Geronimo Wind Global Wind harvest Green Energy Green Energy Green Energy Mountain Company Green Energy Mountain Company Greenfield Solar Helios Energy Horizon Wind Horizon Wind Hull & Associates Juhl Wind Juwi Solar Liberty Green Renewables Luminant Energy Maple Leaf Melink Methane Power MMA Oak Leaf Orbit Orion Energy Outland Energy Phase 3 Renewables Prairie Power (Soyland) Prairie Power (Soyland) Prairie Power (Soyland) Rapid Power Managment, LLC **RA Energy Solutions** Recurrent Energy Recurrent Energy Renewable Choice Energy Select Energy Solar Kits USA Spectron Energy Sterling Planet, Inc. Sterling Planet, Inc. Sterling Planet Stewardship Energy Sun Farm Ventures, Inc. SunCrest Energy SunEdison SunPower Vision Quest White Oak (Invenergy) Wind Capital Group Wind Current Wolverine

Mr/Ms Full Name Gary Skulnik Jeff Reinhardt P. Copleman Meg Denney Kevin Rackstraw Marcus Sass Michelle Kinney Robert Cinncione Milton Howard Geoff Gregory Robert Kane Jon Miller T Wetzel Tom Depaull Charlie Freibert Chris Saraceni Ron Prater Neil Chaney B Olson Greer, Thomas Alonso Gabriel S Giles Martin Larry Wott Randall Talley David Surette Jim Chapman Lewis Gay Jessica Rifkind Mike K Kitchen Dan Rustowicz Norman C Terry Killday Dan Breden Phil Breezeel James Dodson Bellish Brian Lynch RFP Jay Pawlak Sean Boyles J Witte Ryan Emery Joseph T. Barclay Sandi Johnson Alden Hathaway Matt Kanffinan Mark Warner Vena McCracken Franny Yuhas Ed Smeloff Jason Edworthy R Wood Jim Maguire

Pete Chase

<u>Title</u>

APPENDIX F RFP MEGAWATT DAILY ADVERTISEMENT

## **REQUEST FOR PROPOSALS**

ROCHESTER PUBLIC UTILITIES (ROCHESTER) is seeking proposals for up to 100 MWs of wind resources in the 2009 to 2011 timeframe. ROCHESTER will consider Purchased Power Agreements (PPA) and Asset Ownership to satisfy this requirement. Specific requirements for this Request for Proposals (RFP) are as follows:

•ROCHESTER is seeking up to 100 MWs of nameplate wind capacity

•PPA or Asset Ownership

•Wind resource delivery in the 2009 – 2011 timeframe •Preference will be given to assets located in Minnesota or the Midwest ISO (MISO) footprint

•Proposals must be for a minimum block of 25 MWs •Product is energy only and to include all environmental attributes

Burns & McDonnell will administer this RFP and potential bidders can obtain a copy of the RFP at

www.RPUWindRFP.com. Bids are due by November 14, 2008.



