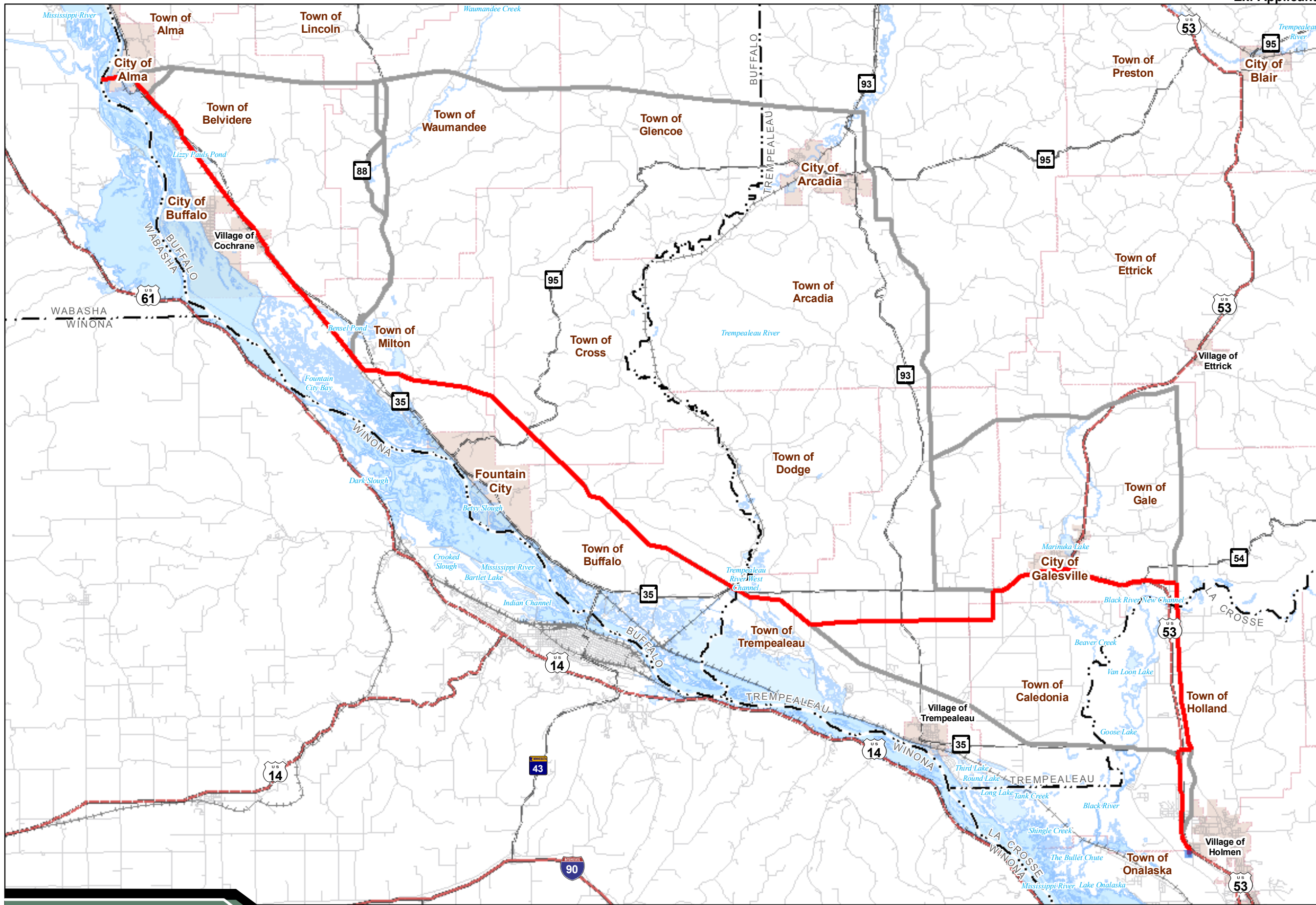


Ex.-Applicants-Stevenson-22



Legend

- PSCW Approved Route (05-10-12)**
 - Preliminary Route
 - PSCW Approved Substation Siting Area
- Other Route Evaluated**
 - Route
- Transportation (BTS)**
 - Interstate Highway
 - US Highway
 - State Highway
- Jurisdiction (WDNR)**
 - City or Village
 - Town



Data Sources: WDNR, WisDOT, BTS, Census
 WI_Project_Overview_120510
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Hampton • Rochester • La Crosse 345kV Transmission Project

PSCW Approved Route

Xcel Energy • Dairyland Power Cooperative • Rochester Public Utilities • Wisconsin Public Power, Incorporated • Southern Minnesota Municipal Power Agency

May 2012

CapX2020 Hampton - Rochester - La Crosse 345 kV Transmission Project

Table 1: Costs by Segment

Segments revised by approved Wisconsin route, Modified Q1 - Galesville

Segment	Capital (Install) Costs	Removal Costs	Comment
18A Revised	\$ 3,230,000	\$ 95,200	Approved segment is shorter but had 90 angle added
19	\$ 621,400	\$ 12,500	Removal is a prorated share of removing Xcel 161 kV line in Holmen.
20	\$ 395,500	\$ 5,200	Removal is a prorated share of removing Xcel 161 kV line in Holmen.
9 Revised	\$ 3,716,000	\$ 108,200	Removal is a prorated share of removing Xcel 161 kV line in Holmen.

The costs shown are 2010 dollar direct costs (materials and installation labor, ROW clearing and preparation and distribution relocations) to allow segment-to-segment comparisons. Nodal costs are included in the capital costs. Other costs, including escalation to the year spent (2014 and 2015), overheads, allowance for funds used during construction (AFUDC) and all other costs that are common to all routes (such as engineering, project management and oversight, etc.) are presented in Table 2.

All other segments are detailed in Table 2.1-16 of the CPCN application.

CapX2020 Hampton - Rochester - La Crosse 345 kV Transmission Project

Table 2: Cost of approved Wisconsin route, Modified Q1 - Galesville

Project Cost Categories	WI Approved Route Modified Q1-Galesville
Material	
Poles	\$ 24,740,000
Wire	\$ 5,770,000
Other	\$ 13,780,000
Labor	
ROW prep	\$ 2,380,000
Foundations	\$ 19,230,000
Line	\$ 21,170,000
Other	
Real Estate	\$ 4,210,000
TSS	\$ 13,200,000
Environmental	\$ 1,440,000
Removal	\$ 1,890,000
Distribution relocations	\$ 1,820,000
Escalation	\$ 19,579,000
Overheads	\$ 7,380,000
AFUDC	\$ 20,410,000
Subtotal	\$ 156,999,000
Substations	
Substation - Briggs Road 345/161	\$ 27,285,000
Substation - Briggs Road 69	\$ 5,340,000
Substation - North La Crosse 69	\$ 1,040,000
161 and 69 kV lines at substation	
Material	\$ 646,000
Labor	\$ 998,000
Other	\$ 1,267,000
Subtotal	\$ 36,576,000
Other Costs	
Pre-certification costs	\$ 7,476,000
One-time environmental impact fee	\$ 8,973,000
Annual impact fees based on three years to construct the project	\$ 1,076,000
Subtotal	\$ 17,525,000
Total Cost	\$ 211,100,000

For comparison purposes, the revised cost of the original Q1 - Galesville route is provided below.

Q1 - Galesville	
CPCN application filing cost	\$ 202,065,000
Modifications through proceeding	
69 kV addition Briggs to North La Crosse	\$ 6,760,000
Increase in EIF due to adding lower voltage substation costs to the EIF cost basis (commission decision point 15)	\$ 1,576,000
Total	\$ 210,400,000

Notes

A 69 kV connection was added between Briggs Road and North La Crosse during the proceeding. This includes adding 69 kV at Briggs Road, expanding the 69 kV at North La Crosse and adding a line between the substations.

EIF increased due to commission decision to include low voltage costs at Briggs Road Substation to the cost basis for EIF calculation. This includes the 69 kV addition.

5/18/2012

CapX2020 Hampton - Rochester - La Crosse 345 kV Transmission Project

**Table 3: Environmental Impact Fees
Approved Wisconsin Route, Modified Q1-Galesville**

			Percent of total miles / total miles / 2 (1/2 to county, 1/2 to local unit)	# miles in local government unit / total miles	0.05 x 345 kV project costs x one-time distribution factor	0.003 x 345 kV project costs x annual distribution factor
Units of Government within County	345 kV Route Length (Miles)	Percent of Total Project Miles	One-Time Fee Distribution Factor	Annual Fee Distribution Factor	One-Time Fee	Annual Fee
City of Alma	1.89	3.89%	0.0194	0.0389	\$ 174,418	\$ 20,930
City of Buffalo	0.27	0.56%	0.0028	0.0056	\$ 24,917	\$ 2,990
Town of Belvidere	6.54	13.45%	0.0673	0.1345	\$ 603,543	\$ 72,425
Town of Buffalo	6.49	13.35%	0.0667	0.1335	\$ 598,929	\$ 71,871
Town of Cross	3.11	6.40%	0.0320	0.0640	\$ 287,006	\$ 34,441
Town of Milton	6.59	13.56%	0.0678	0.1356	\$ 608,158	\$ 72,979
Village of Cochrane	0.59	1.21%	0.0061	0.0121	\$ 54,448	\$ 6,534
Buffalo County	25.48	52.41%	0.2621		\$ 2,351,419	\$ -
Village of Holmen	1.06	2.18%	0.0109	0.0218	\$ 97,822	\$ 11,739
Town of Holland	6.67	13.72%	0.0686	0.1372	\$ 615,540	\$ 73,865
Town of Onalaska	0.15	0.30%	0.0015	0.0030	\$ 13,476	\$ 1,617
La Crosse County	7.88	16.20%	0.0810		\$ 726,838	
City of Galesville	0.27	0.56%	0.0028	0.0056	\$ 24,917	\$ 2,990
Town of Caledonia	1.26	2.59%	0.0130	0.0259	\$ 116,279	\$ 13,953
Town of Gale	5.91	12.16%	0.0608	0.1216	\$ 545,404	\$ 65,448
Town of Trempealeau	7.82	16.09%	0.0804	0.1609	\$ 721,668	\$ 86,600
Trempealeau County	15.26	31.39%	0.1569		\$ 1,408,268	
Total	48.62				\$ 8,973,050	\$ 538,383

Total Fee Basis \$ 179,461,000

5-18-2012:

- Modified for PSC approved route which changed lengths in Village of Holmen, Town of Holland and La Crosse County.
- Approved route is comprised of segments 1, 2A2, 2A3R, 2A4R, 2BR, 2CR, 2DR, 2E, 2F, 2G, 2H, 2I, 6, 12, 13B2, 13C, 13D, 13E, 17A, 17B, 18A, 19, 20, 9, 18H
- Modified for PSC decision on cost basis for EIF. Low voltage substation costs at Briggs Road added to cost basis.
- Costs updated for the revised route and to include lower voltage substation costs in the EIF cost basis as directed by the commission.

Table 5: Summary of Impacts for the Modified / Approved Q1-Galesville Route

Resource Category	PSCW Approved Route
General Route Impacts (Table 1A)	
Length sharing transmission line ROW (miles)	27.3
Percent sharing transmission line ROW	56%
Length sharing railroad ROW (miles)	3.1
Percent sharing railroad ROW	6%
Length sharing road ROW (miles)	8.3
Percent sharing road ROW	17%
Length not following transmission line, roads or railroads (miles)	10.0
Percent not following transmission line, roads, or railroad	21%
Total length (miles)	48.7
Distance to Potentially Sensitive Buildings (Table 1B)	
Number of residences 0-25 feet from route centerline	0
Number of residences 26-50 feet from route centerline	0
Number of residences 51-100 feet from route centerline	15
Number of residences 101-150 feet from route centerline	13
Number of residences 151-300 feet from route centerline	86
Total residences 300 feet from route centerline	114
Commercial/industrial 0-100 feet from route centerline	3
Natural Resource, Residential, and Commercial Impacts (Table 2)	
Agricultural-existing ROW area shared (acres)	105.10
Agricultural-new ROW area required (acres)	270.20
Non-Agricultural Upland-existing ROW Area shared (acres)	123.90
Non-Agricultural Upland-new ROW area required (acres)	129.60
Non-Forested Wetland-existing ROW area shared (acres)	13.80
Non-Forested Wetland-new ROW area required (acres)	15.20
Forested Wetland-existing ROW area shared (acres)	16.10

Table 5: Summary of Impacts for the Modified / Approved Q1-Galesville Route

Resource Category	PSCW Approved Route
Forested Wetland-new ROW area required (acres)	20.50
Developed-existing ROW area shared (acres)	26.10
Developed-new ROW area required (acres)	24.70
Public and Tribal Land Impacts (Table 3)	
Federal land (acres)	1.7
State land (acres)	0
County land (acres)	0
Village/city land (acres)	0

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Table 4: Environmental Impact Fee Calculation

Approved Wisconsin route, Modified Q1 - Galesville

Total Cost Before EIF	\$ 201,060,000
Costs Excluded from Fee Calculation	
Pre-certification costs	\$7,476,000
O&M costs	\$0
Distribution relocations	\$1,820,000
161 kV and 69 kV costs when attached to 345 kV line	\$9,771,000
161 kV and 69 kV reroutes to substation	\$2,532,000
Subtotal costs NOT included in EIF calculation	\$21,599,000
Cost basis for EIF	\$179,461,000
One-time fee at 5%	\$ 8,973,050
Annual fee at 0.3%	\$ 538,383

5/18/2012

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