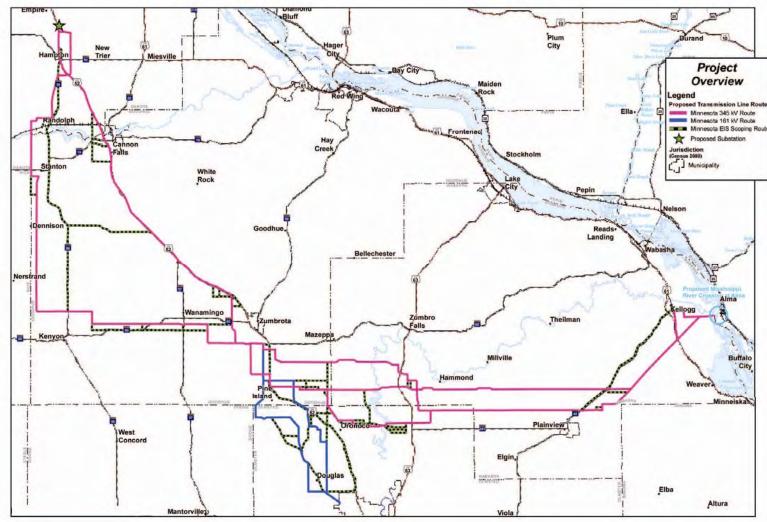
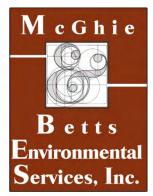


## Oronoco Township Board Meeting Monday, April 4, 2011





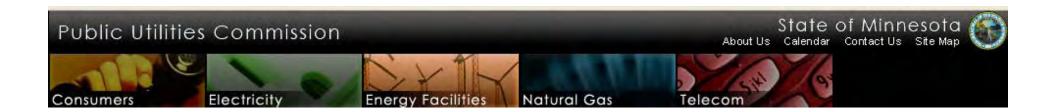
1648 Third Ave SE Rochester, MN 55904 Phone: (507) 289.3919



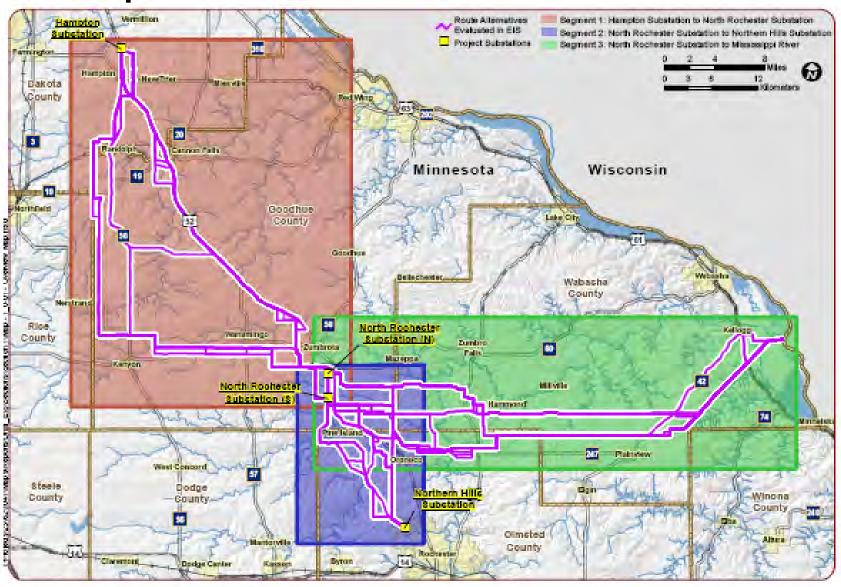






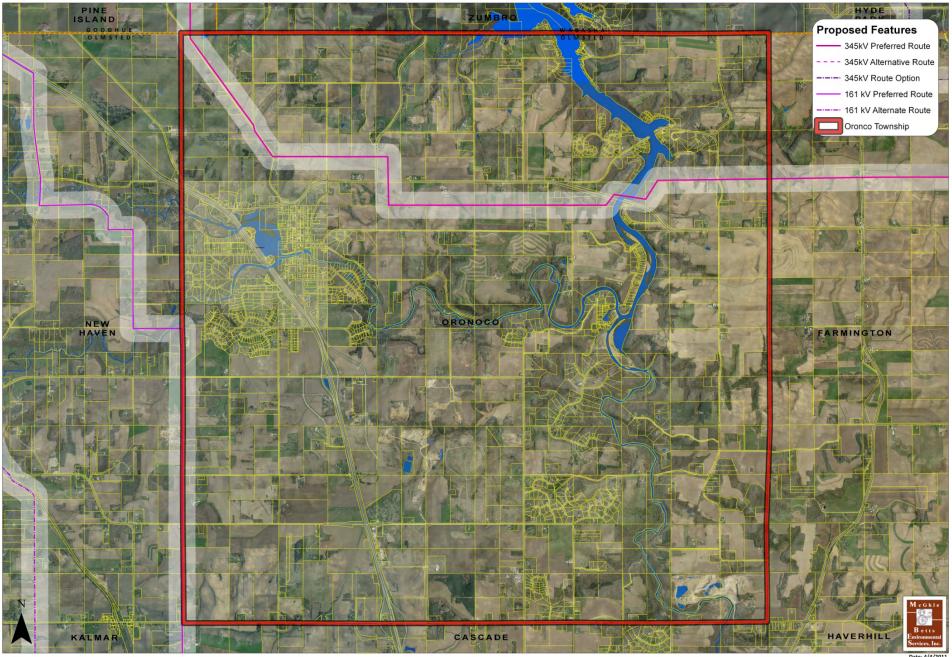


#### **Proposed Transmission Routes**



Source: OES

CapX2020 Hampton - Rochester - La Crosse 345 kV Transmission Project



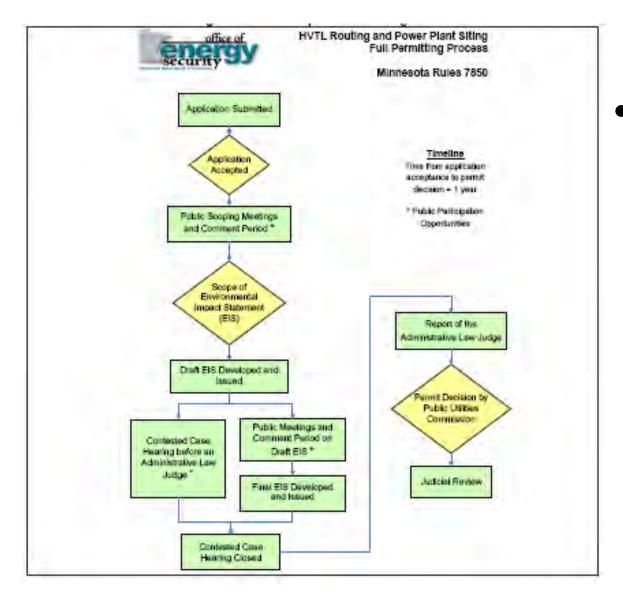
### **Applicability**

- "large energy facility" any high-voltage transmission line with a capacity of 200kV or more, and greater than 1,500 feet in length Minn. Stat. § 216B.2421, subd.2 (2)
- The facility cannot be constructed or sited unless the Commission issues a Certificate of Need (CN) Minn. Stat. § 216B.243, subd.2

## History & Process of Public Utility Commission (PUC) Actions

- Certificate of Need (CON) (Approved 5/22/09)
  - Justify the Project Need

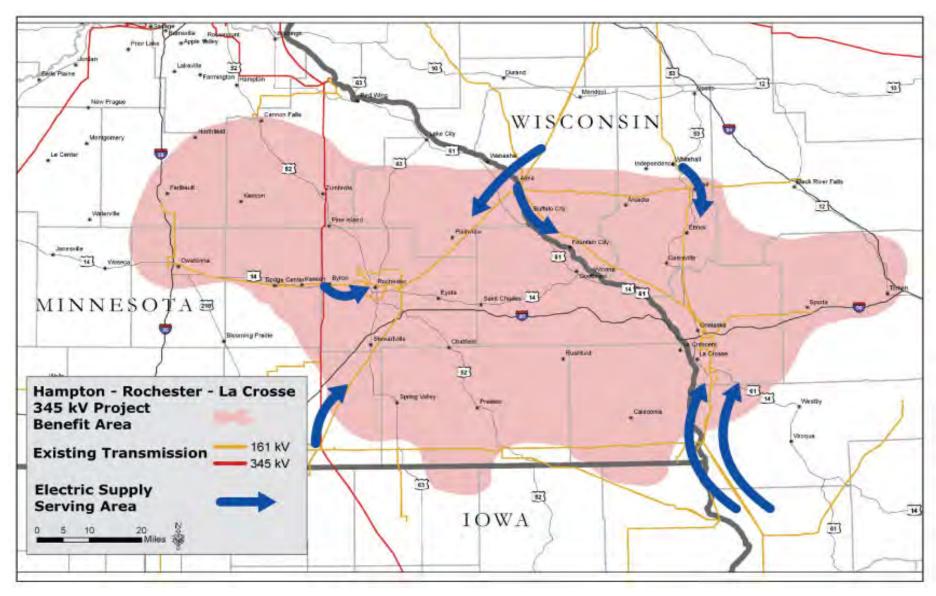
- Route Permit Application (Submitted 1/15/11)
  - Review <u>Preferred</u> & <u>Alternate</u> Routes
  - Make determination of final route



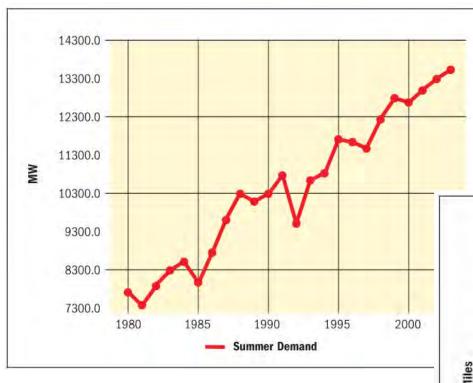
- Draft
   Environmental
   Impact Statement
   (EIS) (March 21,
   2011)
  - Characterize,
     analyze, and
     compare routes
     and route
     segments based on
     environmental
     conditions

- Minnesota EIS → PUC)
- Federal EIS (MN & WI) → USDA Rural Utilities Service)

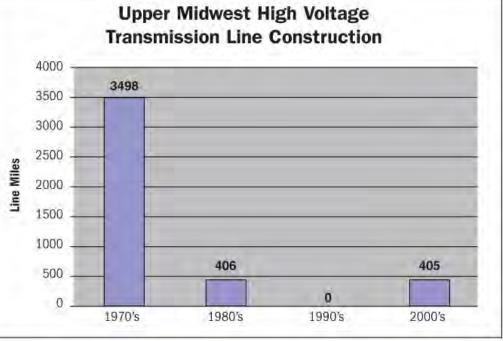
## **Increasing Community Reliability**

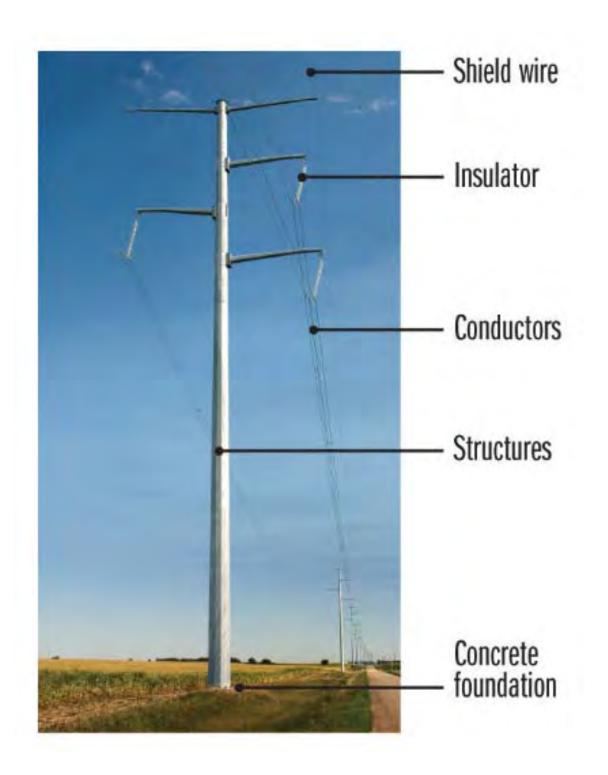


### Load Growth Has Out-Paced Transmission Investment



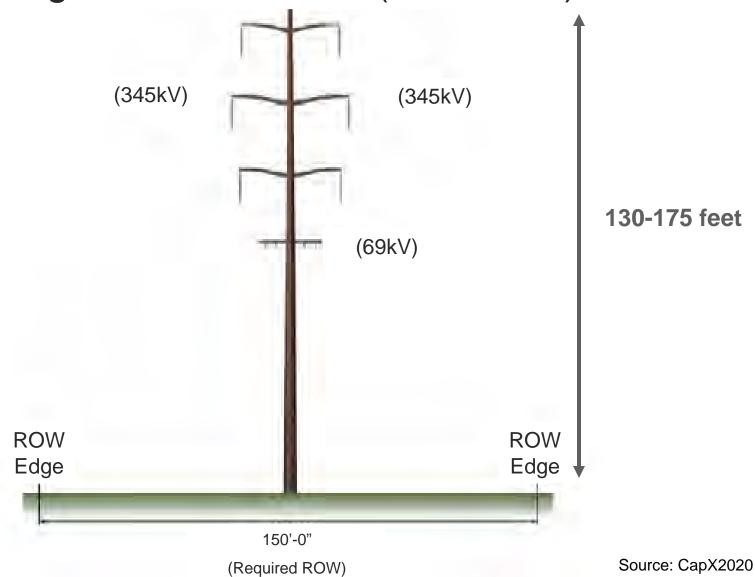
Electricity demand has increased 80% since the 1980s



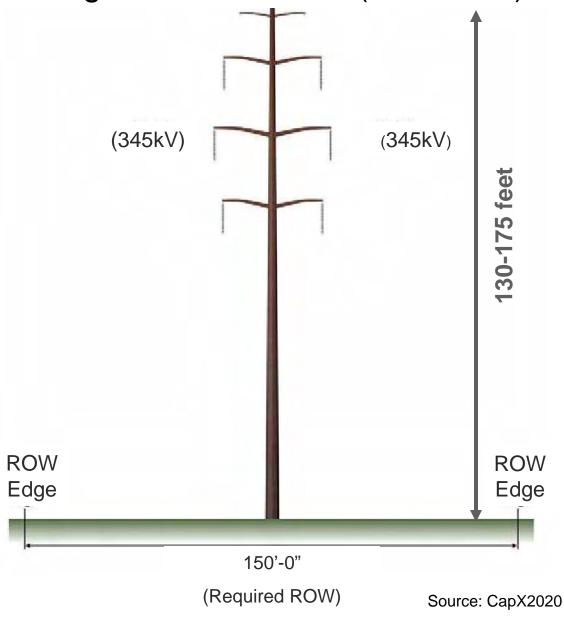


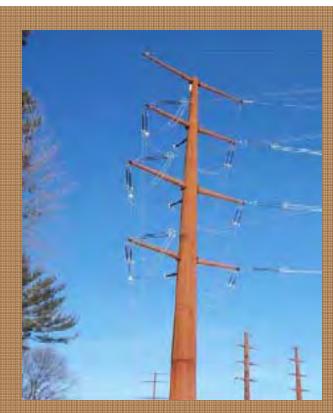
#### Double-Circuit 345kV with 69kV Underbuild

Single Pole Structure (Davit Arm)



# Double Circuit 345kV Single Pole Structure (Davit Arm)

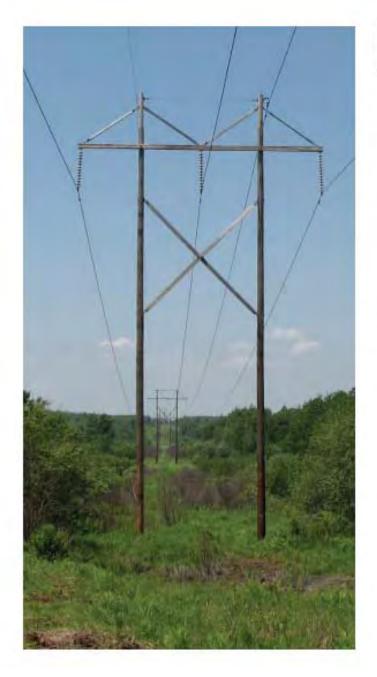




345kV Double-Circuit Single-Pole Structure (Self-Weathering)



Concrete Pier Foundation with Anchor Belts



#### H-frame structure

- Wood or steel
- Embedded directly into the ground
- 100 to 150 feet in height
- 900 to 1200 feet between structures
- 150 foot wide right-of-way

#### **Typical Transmission Line Construction Activities**











Source: CapX2020

#### **Project quick facts**

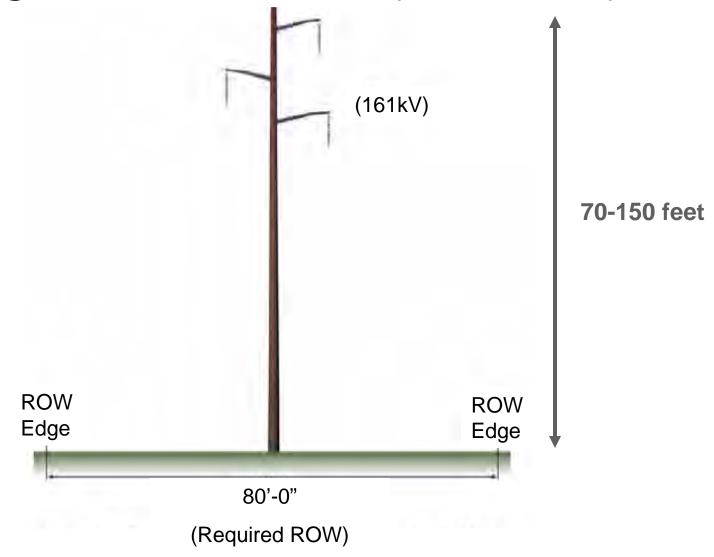
345 kV line - 120-140 miles

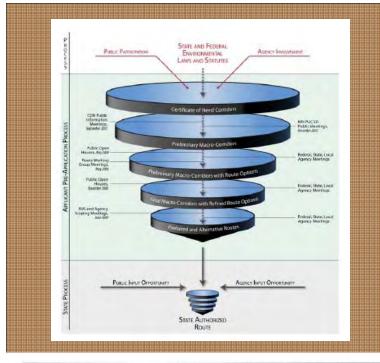
161 kV line - 20-30 miles

**Targeted in-service - 2013-2015** 

## Single Circuit 161kV

Single Pole Structure (Davit Arm)

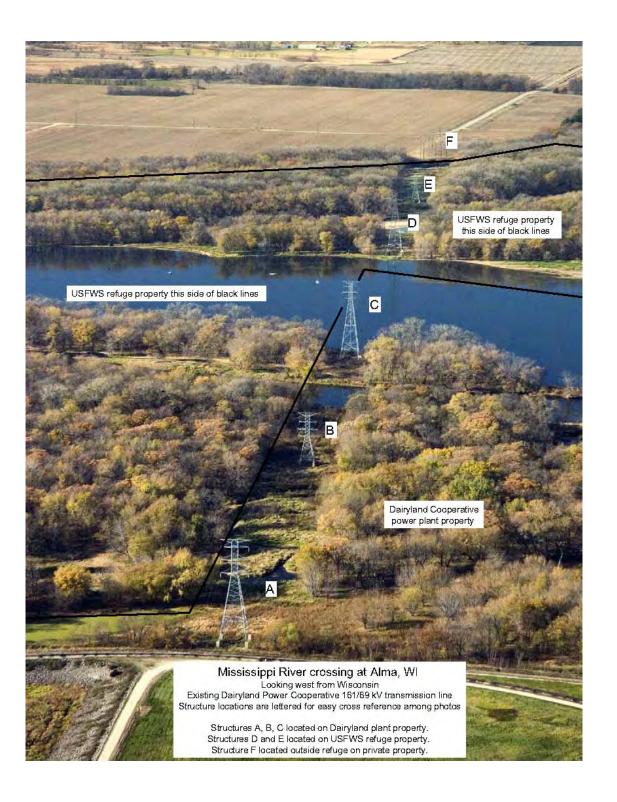




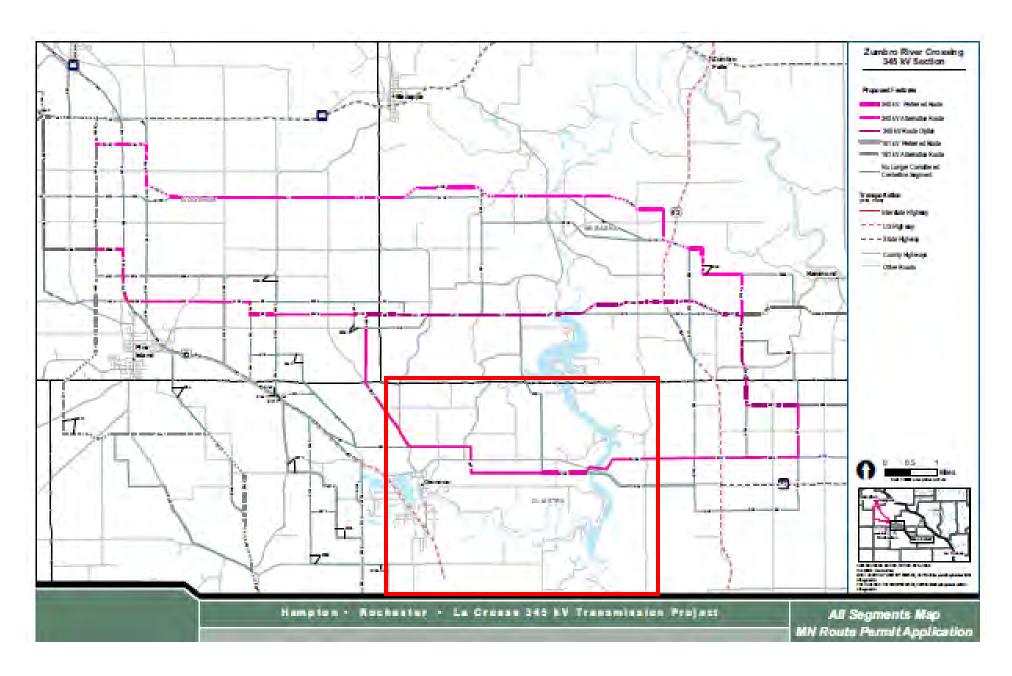




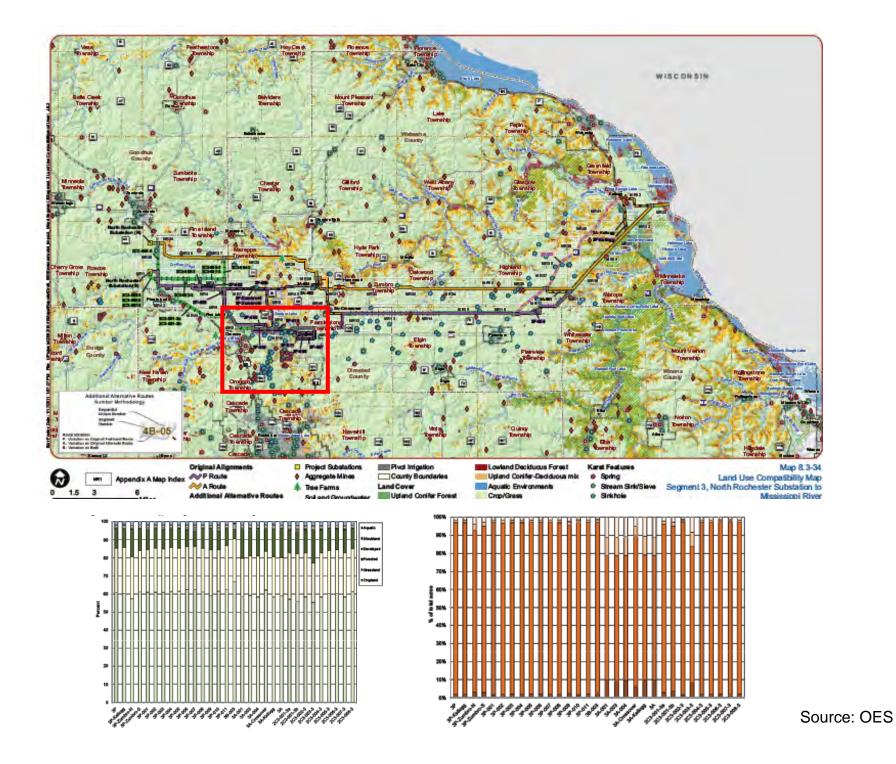
Route Funneling Process



Source: OES



Considerations	Route Permit Application	Environmental Impact Statement
Engineering, Operation, Design, Construction	<b>✓</b>	<b>✓</b>
Construction	<b>✓</b>	/
Human Settlement (including displacement, noise, aesthetics, proximity to structures, cultural values, recreation)	<b>/</b>	1
Public Services (Airports, Roadways, Railroads)	<b>√</b>	<b>√</b>
Public Health and Safety (including Electric & Magnetic Fields, Stray Voltage)	<b>√</b>	<b>√</b>
Property Values	<b>✓</b>	1
Existing Utilities	<b>✓</b>	✓
Land Use	<b>✓</b>	✓
Land-Based Economics (Agriculture, Forestry, Mining)	<b>√</b>	<b>√</b>
Rare & Unique Natural Resources	<b>✓</b>	✓
Flora & Fauna	<b>✓</b>	✓
Water and Air Quality	<b>✓</b>	✓
Cultural Resources	<b>✓</b>	✓
Use of large electric power generation plant sites	✓	
Electric System Reliability	✓	
Irreversible Commitment of Resources	✓	
Design & Design Options to Max. Efficiencies	✓	
Cost	✓	

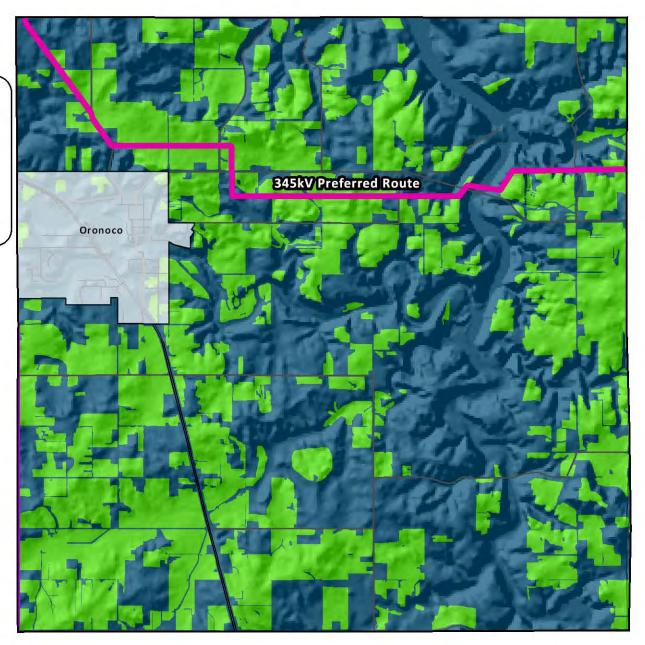


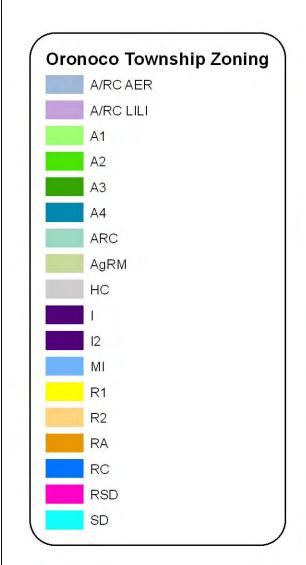
#### **Oronco Landuse**

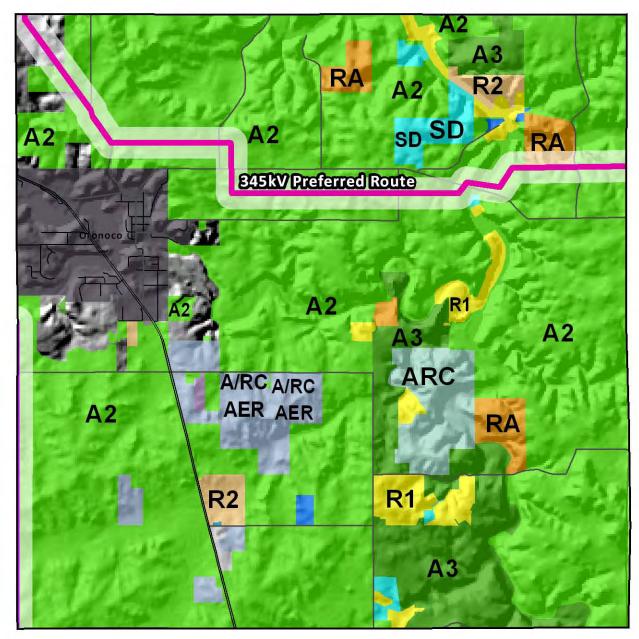
Oth

Other

**Cultivated Land** 

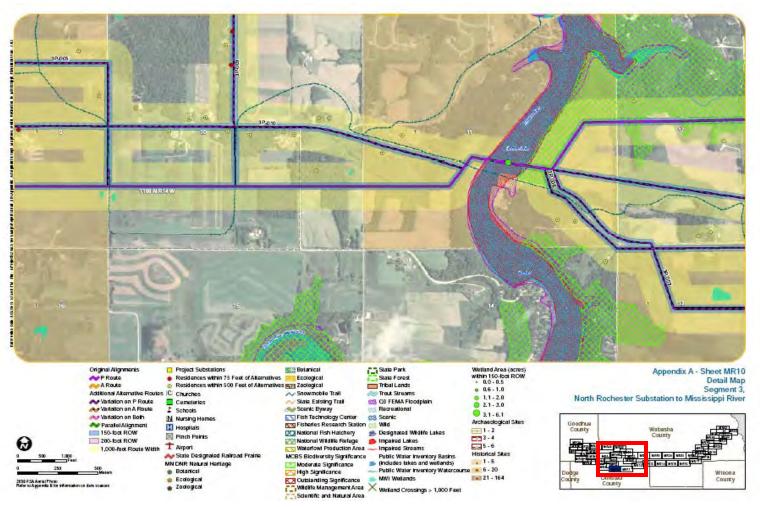






#### Oronoco Township Response

Need for technical, legal and political analysis



#### **Potential Outcomes**

- Mitigation Action
  - Route selection
  - Pole placement
  - Site specific impacts (i.e. soil and rock removal, drain tile repair, temporary roads for construction, etc.)
- Public can request additional information for clarification
  - For example, CapX2020 will be required to provide additional information on the WI Draft EIS that specifically addresses the WDNR's concerns including:
    - Proposed route impacts on existing DNR management plans
    - Requested table of all state properties affected
    - Requested more information on wetland impacts

#### **Key Dates**

- Draft EIS
  - Public Meetings: April 12, 13, 14
  - Public Comment Period Deadline: April 29, 2011
- Route Permit Application
  - Intervention Deadline: May 2, 2011
  - Testimony of Intervenors: May 20, 2011
  - Public ALJ Hearings (3 locations): Week of June 13
  - ALJ Hearing St. Paul: week of June 20
  - Public Comment Period Deadline: June 30, 2011

