

SPRING VALLEY-NORTH LAKE GENEVA ELECTRIC RELIABILITY PROJECT

Project overview

American Transmission Co. is proposing new and upgraded electric transmission facilities to keep pace with growing electricity demand in southern Walworth and western Kenosha counties in Wisconsin. The project involves:

- Constructing a new 138-kilovolt transmission line of approximately 25 miles, between the Spring Valley Substation near Salem and the North Lake Geneva Substation in Lake Geneva.
- Constructing a new 138- and 69-kV substation on an ATC-owned parcel along Hwy. 50 in the Town of Wheatland, or expand an existing substation site called Richmond Road in the Town of Randall.
- Constructing a new 69-kV transmission line to connect the new substation to the existing Twin Lakes Substation in Twin Lakes.

Additional project components

- Intermittent structure replacement between the Spring Valley Substation and the Bain Substation, in Pleasant Prairie.
- Rebuilding the 69-kV transmission line between Katzenberg Substation near Bloomfield, and the Twin Lakes Substation.

This proposed project requires review and authorization by the Public Service Commission of Wisconsin and the Wisconsin Department of Natural Resources. These agencies will begin their review of the project in Spring 2015.

Need for the project

The electric transmission system in southern Walworth and western Kenosha counties is vulnerable to low voltages and power outages. Reliable electric systems depend on a degree of redundancy to help ensure uninterrupted electric service to customers in the event of an outage on any one component of the system. Due to increased electric demand in the area, the existing power lines and substations cannot carry the additional load if a power outage were to occur elsewhere on the system. This could result in service interruption to electric customers.

Project benefits

The proposed project, including all the transmission line and substation work described above, will strengthen the electric transmission system serving southern Walworth and western Kenosha counties, and help prevent outages and service interruptions. The project also will provide system redundancy and allow for maintenance outages to equipment and facilities when repairs are needed.

Transmission line and substation siting process

The siting process began in early 2012 by identifying a broad study area and preliminary corridors that would be suitable for a transmission line. These initial corridors were evaluated, then narrowed to include only the potential route options that were deemed practical based on impacts, operational performance, constructability and cost. The transmission line route options and potential substation sites were presented to the public in early January 2013, March 2014 and again in January 2015 for feedback and input. The route options were studied and evaluated, and narrowed further to include only two proposed route options.



The proposed final routes were included in ATC's application to the PSC in spring 2015 under Docket No. 137-CE-167. ATC is required to identify at least two route options for the PSC review. If the project is approved, the PSC will determine the location of the substation and which of the two route options will be built.

Public participation

ATC has provided opportunities for stakeholders who may be impacted by the proposed project to share comments and feedback. Property owners, public officials and other interested parties attended informational open houses and can continue to monitor the project developments on ATC's website. The PSC also provides opportunities for public involvement throughout the regulatory review process, and will notify affected landowners when public hearings are scheduled.

Schedule*

Project introduced to the public	Early 2013
Potential routes studied and evaluated	Early 2013 through Fall 2014
Environmental field review	Spring 2014
Submit application to PSC	Spring 2015
PSC Hearings	Late Fall 2015
Receive PSC decision (anticipated)	Spring 2016
Design line and obtain easements	2016 and 2017
Start construction	Summer 2017
Project in service	Spring 2019

**Subject to modifications*

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