

# Quarry 115 kV Transmission Project

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GREAT RIVER ENERGY<sup>®</sup>  
A Touchstone Energy Cooperative



## Project Need

Great River Energy, wholesale power provider to Stearns Electric Association, is proposing to construct a new overhead 115 kilovolt (kV) transmission line in Stearns County. This project will strengthen the area's electric transmission system, improve reliability and guard against overloading and voltage collapse in the Greater St. Cloud area.

The area's existing transmission system is at risk during an unexpected outage or scheduled maintenance. If an additional outage occurs the area's electric demand cannot be sustained. This situation could potentially produce blackouts both locally and in a wider geographical area as far as Little Falls and Long Prairie. Completion of this project will minimize the operational concerns during an outage.

## Transmission Line Route and Substation Modifications

The two mile route (see back for the proposed transmission line route) will exit on the west side of the Quarry Substation replacing an existing 115 kV transmission line and turn north. It then bypasses the substation it currently serves, crossing the Sauk River and continues north along the section line to a point north of County Highway 75. The route then turns east for a short distance and finally north into the West St Cloud Substation.

The Quarry Substation will require additional infrastructure and rerouting of the existing 115 kV lines into the substation. The West St Cloud Substation's south fence line will be expanded by 75 feet for additional infrastructure and the new transmission line.

## Construction

Construction will consist of wood poles ranging in height from 80-95 feet above ground with a distance between poles of 400-500 feet. In wet areas, guy wires and anchors will be used to stabilize the poles. Some specialty poles may be required. The new transmission line will require a 120-foot-wide right of way, 60 feet on each side of the centerline. Trees and vegetation in the right of way will be removed to provide a safe operation area.

## Permitting and Easements

Great River Energy will seek local approval for the project. An Environmental Assessment must be prepared and accepted as complete by the local permitting authority before final project approval. Landowners along the proposed transmission line route will be provided information on the project and approval process.

New easements will be required to construct this project. Landowners will be contacted to discuss the easement and review the necessary tree removal.

## Project Schedule

Public notice and approval process -----	2014-15
Easement Acquisition/Environmental permits -----	2015
Survey/Design -----	2015-16
Construction Activities -----	2016-17



*Typical 115 kV Wood  
Single Circuit Structure  
with brace post insulators*

## For project updates and information, visit [greatriverenergy.com/Quarry](http://greatriverenergy.com/Quarry) or contact:

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# Proposed Project

