

# Portage Lake 69-kV transmission project

Great River Energy proposes to construct a new 69-kV transmission line and substation located in Aitkin County (see map on back). This project will improve the reliability and system voltage of the transmission system in the area.

## Overview

The transmission line will extend from Mille Lacs Energy Cooperative’s existing Palisade Substation, located in Logan Township, to the new 69/115-kV “Portage Lake” Substation located in Section 11 in Kimberly Township. The transmission line generally will follow Aitkin County Road 5 with the poles proposed to be located 3 to 5 feet outside of the edge of the road right of way in most areas.

South of MN Trunk Highway 210, Aitkin County has a project in preliminary stages to rebuild, and in some areas realign, County Road 5. Great River Energy will coordinate with Aitkin County Highway Department through their design and construction and place poles where they will not interfere with the existing and rebuilt roadways.

Wood poles will be primarily used, although laminate and/or steel poles may be utilized based on engineering design needs. Guy wires to support poles will be needed in some locations to accommodate angles in the transmission centerline. Poles and guy wires will be placed to not interfere with agricultural and residential land uses to the extent possible.

The transmission line requires a 100-foot wide easement, being 50 feet on each side of the transmission centerline. Where the transmission line follows County Road 5, a portion of the easement will overlap with the road right-of-way.



*Typical 69 kV wood single circuit structure*

In areas where trees and vegetation are in the easement, it will be necessary to remove them for the safe operation and maintenance of the line, which will be discussed with landowners during easement negotiations.

## Public involvement

Great River Energy will hold a virtual open house to share additional project information with landowners in the project vicinity, local government officials and other permit authorities and to solicit input on the project. A conditional use permit will be required by Aitkin County for the Portage Lake Substation. Additional permits from road authorities, environmental agencies and other utilities will begin once the project has local approval and preliminary design is complete.

### Schedule

|                                |                              |
|--------------------------------|------------------------------|
| Notifications                  | <b>Spring 2022</b>           |
| Survey/design                  | <b>Summer 2022</b>           |
| Easement acquisition           | <b>Summer to winter 2022</b> |
| Permits                        | <b>2022</b>                  |
| Transmission line construction | <b>2023</b>                  |
| Energization                   | <b>Spring 2024</b>           |

### Quick facts

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| Length – <b>9.5 miles</b>  |
| Voltage – <b>69kV</b>  |
| Structures – <b>Primarily wood with laminate or steel in some areas.</b>                   |
| Spans – <b>325 to 375 feet apart</b>   |
| Right of way – <b>100-foot-wide easement being 50 feet on each side of the centerline.</b> |

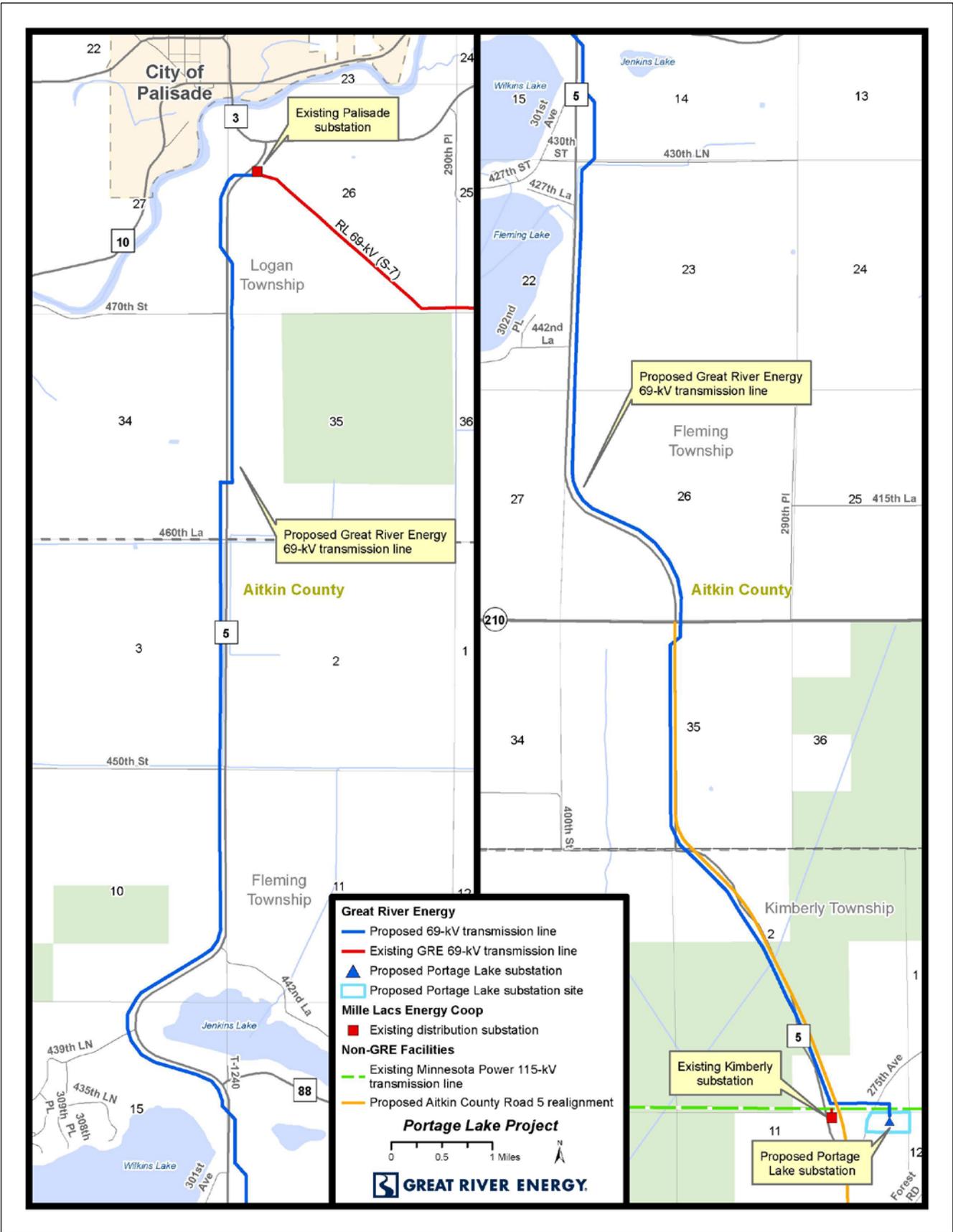
## Great River Energy representatives

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

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# Proposed project



## About Great River Energy

Great River Energy is a not-for-profit wholesale electric power cooperative which provides electricity to 28 member-owner distribution cooperatives. Together, our systems provide power to approximately two-thirds of Minnesota geographically and parts of Wisconsin, serving 700,000 families, farms and businesses.