

MISO Transmission Expansion Plan 2011



A brief summary of these new plans is documented below:

Ellendale to Big Stone to Brookings

A new line planned from North Dakota into Minnesota provides an outlet to North Dakota wind by directly transferring wind energy at 345 kV, thus offloading the existing 230 kV circuits.

Brookings to Twin Cities

In addition to transferring wind from North Dakota, this new 345 kV line helps transfer additional southwestern Minnesota wind into Minneapolis-St. Paul. Through various transformations throughout the path, this circuit provides on and off ramps for power transfer.

North LaCrosse to North Madison to Cardinal

This new transmission, a continuation of the northern 345 kV path, connects the North LaCrosse station at the Minnesota-Wisconsin border into the Madison load center.

Pleasant Prairie to Zion Energy Center

Creating a new tie line between American Transmission Company (ATC) and Commonwealth Edison (ComEd), this new 345 kV circuit provides an outlet for southeast Wisconsin generation noted in the near term assessment, in addition to allowing wind energy transfer from the Dakotas and Minnesota.

Lakefield to Winnebago to Winco-Burt, Lime Creek to Emery to Blackhawk to Hazleton, Sheldon to Burt to Webster 345kV

These lines facilitate transfer of wind from MISO's West Region closer to large load centers in Illinois and Wisconsin by connecting existing wind heavy areas around Lakefield and Sheldon, and further accessing wind in central Iowa from the Lime Creek area to Hazleton. It provides on and off ramps for power transfer through intermediate transformations.

Dubuque County to Spring Green to Cardinal and Oak Grove to Galesburg to Fargo

Both projects, one connecting to Madison, Wisconsin; and the other to the northern Illinois station at Fargo, provide an outlet for the Western Region wind and connections to load centers. The two projects also help offload transmission constraints out of the Quad Cities Station.

Ottumwa to Adair to Palmyra Tap

This new line provides an outlet for a wind zone in Missouri, and offloads transmission constraints driven through transfers between Iowa and Illinois.