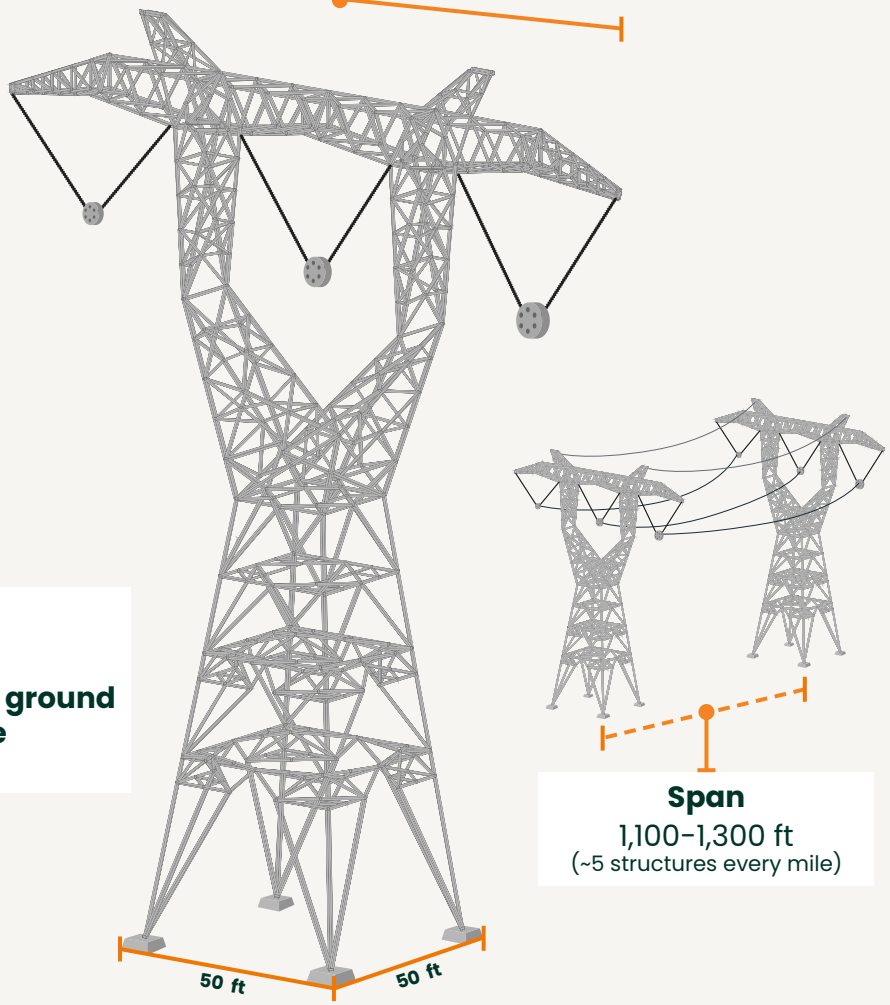
765 kV Structures

PowerOn Midwest™
Big Stone South to Brookings

Otter Tail Power Company · Xcel Energy®

Transmission structures play a vital role in the delivery of electricity. They support the components that are used to transport electricity. PowerOn Midwest is working with landowners and the community to power our region today and into the future.

Typical structure



Footprint size
35 x 35 ft to
50 x 50 ft

Foundation depth
25-65 ft

Right-of-way width: 250 ft (125 ft each side from the centerline)

PowerOn Midwest
Big Stone South to Brookings

OTTER TAIL POWER COMPANY Xcel Energy

Why 765 kV technology

765 kV technology was identified in the planning process as the preferred solution for the region, presenting several advantages:

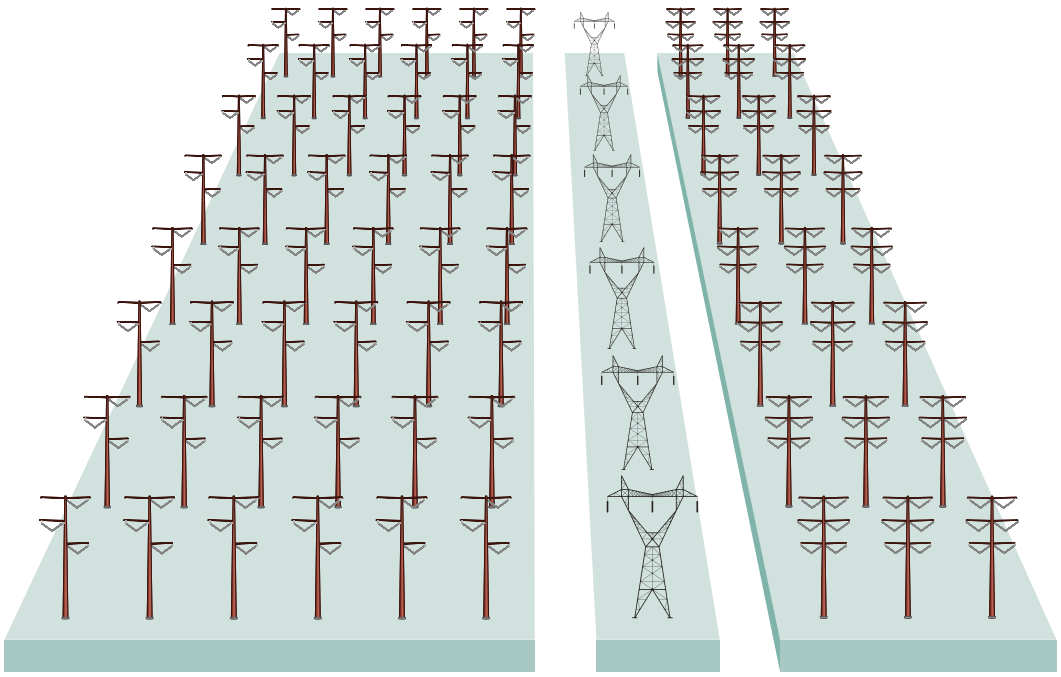
Efficiently carries power over long distances

Fewer transmission lines needed to carry the same amount of power

Fewer structures reduce impact on land, communities, and the environment

Resilient infrastructure that can consistently deliver power

Provides backup power pathways



345 kV
SIX
SINGLE CIRCUIT TOWERS
(900 ft of total right-of-way)

765 kV
ONE
SINGLE CIRCUIT TOWER
(250 ft of total right-of-way)

345 kV
THREE
DOUBLE CIRCUIT TOWERS
(450 ft of total right-of-way)

CONTACT US PowerOnMidwest.com/SouthDakota SouthDakota@PowerOnMidwest.com 877.869.2087