

TWE Project Description and Benefits



The TWE Project is a high-voltage transmission system that will extend across four states from south-central Wyoming to Southern Nevada. The Project will include approximately 730 miles of transmission line, two terminals located in Wyoming and Utah, and one substation in Nevada. The Project will be capable of transmitting 3,000 megawatts (MW) of electric energy (enough to power more than 1,800,000 homes), and will incorporate both high voltage direct current (DC) and high voltage alternating current (AC) technology. The DC System will transmit power from Wyoming, across Colorado to Utah with maximum efficiency, and the AC System will transmit power from Utah to southern Nevada with the flexibility to connect with other systems along the route. Converter stations at both the Wyoming and Utah Terminals will allow the TWE Project's DC System to interconnect with other local AC systems. For example, in Wyoming, the converter station will interconnect with PacifiCorp's existing Platte-Point of Rocks transmission line, Power Company of Wyoming LLC's Chokecherry and Sierra Madre Wind Energy Project (CCSM Project), and may connect to PacifiCorp's planned Energy Gateway West transmission line.

Economic Benefits

- ✓ \$1.188 billion investment in critical infrastructure in Wyoming
- ✓ Provide \$314 million in total tax revenue over 50-year economic life
- ✓ Create about 200 construction jobs and 20-30 permanent, good-paying jobs
- ✓ Economic effects will support new and existing businesses in the Area of Site Influence

Benefits to Current Land Uses

- ✓ Balance among energy infrastructure, agriculture and the environment
- ✓ Facilitate delivery of power from renewable and other sources in Wyoming
- ✓ Existing grazing and agricultural uses would continue during Project construction and operations

Environmental Benefits

- ✓ Project will support the transmission of power from clean and sustainable energy
- ✓ Reduce air emissions and greenhouse gases, as effective as taking 1.5 million cars off the road
- ✓ Project is sited in designated corridors and is co-located with other infrastructure when feasible

TWE Project in Wyoming

- ✓

Transmission line
- ✓

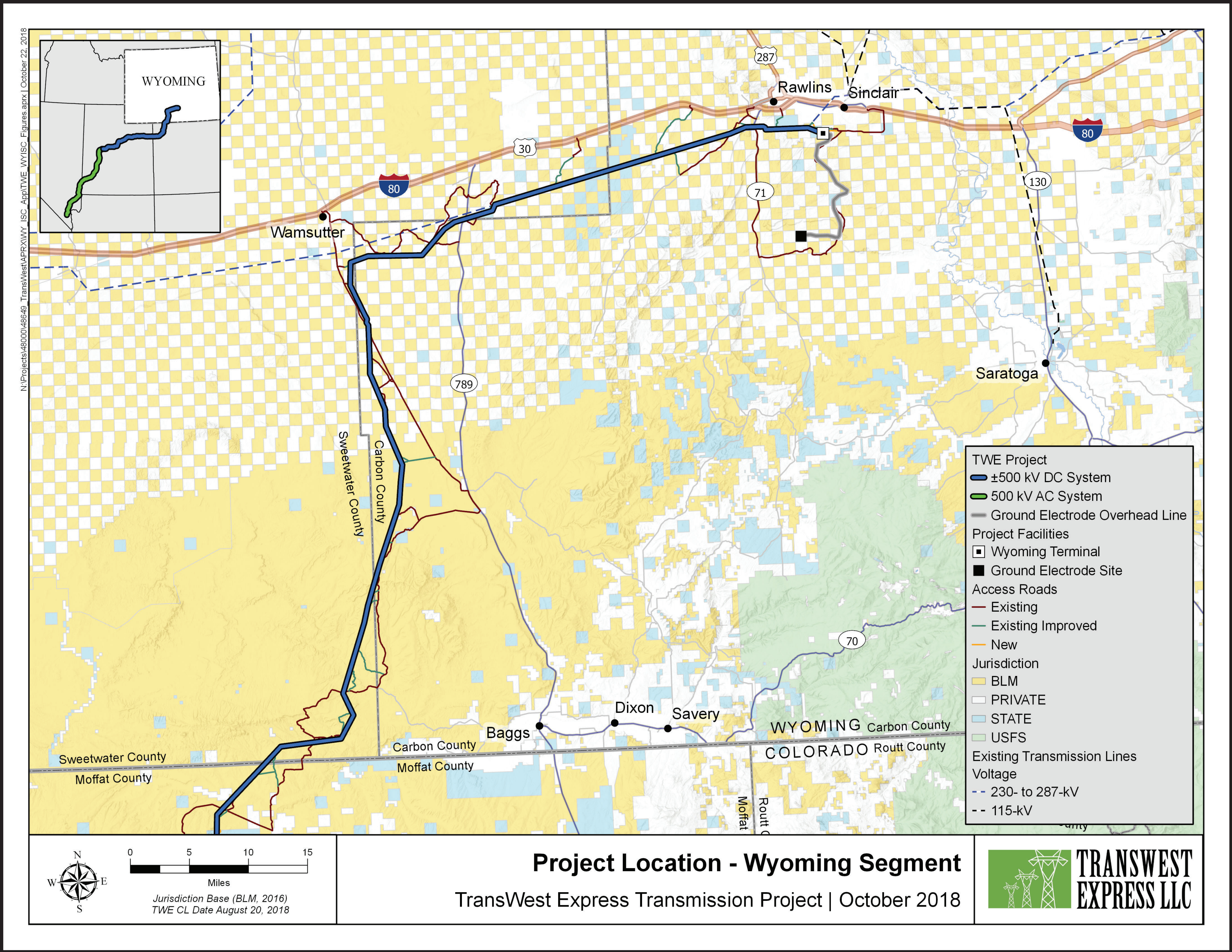
Access roads
- ✓

Wyoming Terminal
- ✓

Ground electrode facility
- ✓

Communication regeneration site
- ✓

Temporary facilities, including wire pulling, tensioning and splicing sites; structure work areas; material storage yards; staging areas; fly yards; and batch plants



This route aligns with the route selected by the Carbon County, Sweetwater County and Moffat County Commissioners in a joint resolution signed in 2011.

Project Components by County

Location	Transmission Line	Access Roads	Wyoming Terminal	Ground Electrode Facility	Communication Regeneration Site
Carbon County	55 miles 211 structures	Existing 124 miles Existing Improved 37 miles New 45 miles Temporary 7 miles	180 acres 18 structures for interconnection	<1.0 acre permanent disturbance 15 miles of ground electrode line with 116 monopole structures*	1 site
Sweetwater County	37 miles 154 structures	Existing 43 miles Existing Improved 31 miles New 27 miles Temporary 6 miles	Not applicable	Not applicable	Not applicable

* Wyoming ground electrode overhead electrical line will be hung on previously permitted CCSM Project 230kV line.

TWE Project Elements

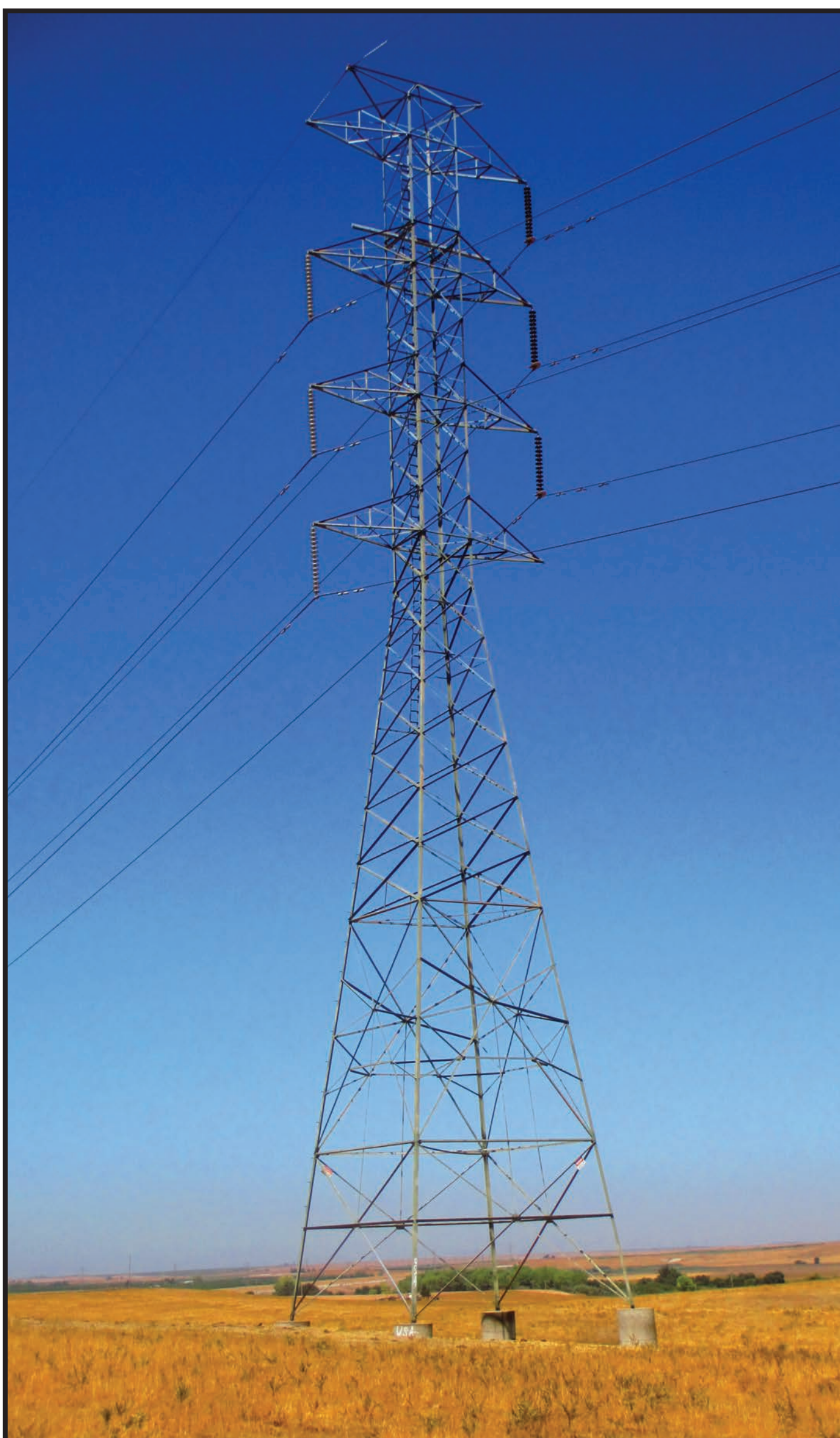


Representative photo of guyed I-string lattice tangent structure.

Transmission Line Design

This direct current high-voltage transmission line is designed to carry as much power as possible to minimize land use needed while increasing the capacity, stability and reliability of the western power grid.

- **Structure heights:**
100-180 feet
- **Span between structures:**
900-1,500 feet
- **Transmission line right-of-way width:**
typically 250 feet
- **Access road width:**
typically 14-20 feet



Representative photo of self-supporting I-string steel angle or dead-end lattice structure.



Typical AC/DC converter station.



Representative photo of self-supporting lattice tangent structure.

Wyoming Terminal Area

The Wyoming Terminal includes:

- AC/DC converter station
 - ◆ ± 500 kV DC switchyard
 - ◆ AC/DC conversion equipment
 - ◆ transformers
 - ◆ equipment, control, maintenance, and administrative buildings
- AC substation (500/230 kV)
 - ◆ switchyard
 - ◆ transformers
 - ◆ control equipment
 - ◆ control buildings
- Two buildings to house the AC/DC conversion equipment, each approximately 200 feet long, 80 feet wide, and 60 to 80 feet tall
- 230 kV Interconnection and switchyard to provide connection to the existing Platte-Point of Rocks Transmission Line
- Ground electrode facility

