Montana Operations

**Electric**
- 363,800 customers
- 24,450 miles – transmission & distribution lines
- 809 MW nameplate owned power generation

**Natural Gas**
- 194,100 customers
- 7,250 miles of transmission and distribution pipeline
- 18 Bcf of gas storage capacity
- Own 61 Bcf of proven natural gas reserves

South Dakota Operations

**Electric**
- 63,200 customers
- 3,550 miles – transmission & distribution lines
- 440 MW nameplate owned power generation

**Natural Gas**
- 46,200 customers
- 1,673 miles of transmission and distribution pipeline

Nebraska Operations

**Natural Gas**
- 42,300 customers
- 787 miles of distribution pipeline
The Montana Intertie is a 500-kV transmission line in NorthWestern’s Balancing Authority Area that runs from the Broadview Substation in the east to the Garrison Substation in the west. The Montana Intertie is physically and contractually divided into two sections, with Townsend, Montana, as the dividing point.

Bonneville owns and operates the section from Townsend to the Garrison Substation. This section is also referred to as the Eastern Intertie.


The Colstrip Transmission Owners own the section from the Broadview Substation to Townsend. This section is operated by NorthWestern Energy.
### Ownership Rights and Capacity Allocations

#### Colstrip Project Transmission Owners

<table>
<thead>
<tr>
<th>Ownership Rights</th>
<th>Colstrip to Broadview</th>
<th>Broadview to Townsend</th>
</tr>
</thead>
<tbody>
<tr>
<td>NorthWestern Energy (NWMT)</td>
<td>822.8</td>
<td>468.5</td>
</tr>
<tr>
<td>Puget Sound Energy (PSE)</td>
<td>746.0</td>
<td>758.6</td>
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<tr>
<td>Portland General Electric (PGE)</td>
<td>307.2</td>
<td>312.4</td>
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<tr>
<td>Avista Corp (AVAT)</td>
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<td>234.3</td>
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<tr>
<td>PacifiCorp (PAC)</td>
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<td>156.2</td>
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<tr>
<td>Totals</td>
<td>2260</td>
<td>1930</td>
</tr>
</tbody>
</table>

#### 2200 MW Path 8 Rating
Standard generator interconnection procedures and agreements are outlined in Attachments M (large generators) and N (small generators) of NorthWestern’s OATT.
Part II of the OATT governs point-to-point transmission service

Application

System Impact Study (if required)

Facilities Study (if indicated)

Transmission Service Agreement

A generator would also need to enter into a Power Purchase Agreement with a buyer.
Export Capability

**Available Now:** 146 MW

**Available 1/1/2019:** 246 MW

**Available 1/1/2022:** 271 MW

*Based on commitments and postings on OASIS.*

308 MW  NorthWestern’s Transmission Capacity on Path 8
- 162 MW  Firm Commitments
  146 MW  Capacity Available Today

**0 MW**  Pending Requests in Transmission Queue (on OASIS)
NorthWestern’s Efforts to Facilitate Wind Exports

Mountain States Transmission Intertie Project (MSTI)
- 430-mile, 500-kV AC line from southwest Montana to southeast Idaho
- $24 million write-off in 2012

Collector Project
- MOU with WAPA in 2010
- Proposed series of up to five 230-kV generator lead lines into new substation in Townsend, Montana
NaturEner | Rim Rock Wind Farm

- Illustration of cost and difficulty integrating large amounts of wind

Gaelectric | Jawbone Wind

- NorthWestern’s most recent large wind exporter
- Failed business model despite transmission availability
**Mapping the Stakeholder Landscape**

**Our Challenge:**
Being the center of our stakeholder group without being the target.

**Stakeholder:**
A person, group, or organization that has direct or indirect stake in an organization because it can affect or be affected by the organization's actions, objectives, and policies.

As an investor-owned, state and federally regulated, public utility, NorthWestern Energy has numerous stakeholders and lots of accountability.
The needs of NorthWestern’s customers and shareholders will drive future investments.

NorthWestern is very interested in partnering with viable wind projects wishing to export Montana wind.

Significant ATC currently available on NorthWestern’s system.

There are other, real issues that need to be addressed regarding Montana wind development. Supply and Demand is key.
Delivering a bright future