NWGA Members:
Avista Utilities
Cascade Natural Gas Corp.
FortisBC Energy
Intermountain Gas Co.
NW Natural
Puget Sound Energy
Enbridge BC Pipeline
TC Energy GTN System
Williams NW Pipeline
## By the Numbers

<table>
<thead>
<tr>
<th>State/Province</th>
<th>Households / Businesses</th>
<th>Pipeline (miles / km)</th>
</tr>
</thead>
<tbody>
<tr>
<td>British Columbia</td>
<td>932,061 / 97,416</td>
<td>35,000 / 55,000</td>
</tr>
<tr>
<td>Idaho</td>
<td>406,876 / 42,528</td>
<td>17,500 / 28,000</td>
</tr>
<tr>
<td>Oregon</td>
<td>756,982 / 84,758</td>
<td>30,000 / 48,000</td>
</tr>
<tr>
<td>Washington</td>
<td>1,191,659 / 107,837</td>
<td>45,000 / 72,000</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>3,287,578 / 332,539</strong></td>
<td><strong>127,500 / 203,000</strong></td>
</tr>
</tbody>
</table>
Efficient Energy Resource

Natural Gas

- **Source Energy**: 100 MMBtu
- **Extraction, Processing & Transportation**: 7% Energy Loss
  - Result: 93 MMBtu
- **Generation**: 40 MMBtu
- **Distribution**: 6% Energy Loss
  - Result: 38 MMBtu
- **Delivered to Customer**: 34 MMBtu

*Based on EIA 2017 average US natural gas generation operational heat rate*

Electricity

- **Source Energy**: 100 MMBtu
- **Extraction, Processing & Transportation**: 5% Energy Loss
  - Result: 95 MMBtu
- **Generation**: 6% energy loss
  - Result: 42 MMBtu
- **Distribution**: 6% energy loss
  - Result: 40 MMBtu
- **Delivered to Customer**: 40 MMBtu

*Based on EIA 2017 average US natural gas generation operational heat rate*
Gas, Electric Peaks Concurrent

• January 5, 2017, 7am-8am:
  – ~30 GWh delivered via electric system
  – ~1,500,000 therms delivered via gas system
• 1.5 million therms = 44 GWh

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