Pittsburgh’s Energy Assets at a Glance

Since the first Marcellus well was sunk in 2004, gas-related employment has more than doubled

- 119.1% natural gas employment growth since 2005 (11,000+)
- Second largest natural gas reserves
- Nearly 4,000 active wells
- 2 trillion cubic feet of production in 2016
- $10B+ reported capital investment, since 2012, in natural gas infrastructure

Transmission and Distribution

- Century-plus T&D history grounded in George Westinghouse’s development of Alternating Current
- 25.0% employment growth since 2005

Nuclear

- Half of world’s reactors based on locally developed technology

Innovation

- 2 national energy R&D centers over $1 billion in research annually
- Energy-related VC in past 5 years: $200M
- Energy-related patents in past 5 years: 360

Pennsylvania:

one of America’s top 5 coal-producing states

U.S. Energy Information Administration

- CNX Coal Resources’ Pennsylvania Mining Complex is world’s largest underground mining complex

- Pittsburgh is the #1 U.S. exporter of coal, metal ore and other non-metallic minerals ($1.4B)
- Pittsburgh ranks in the top 50 U.S. metros for oil and gas exports

North American Industry Classification System (NAICS), 2015

<table>
<thead>
<tr>
<th>Industry</th>
<th>Employment</th>
<th>Avg Annual Wages</th>
<th>Location Quotient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy</td>
<td>38,720</td>
<td>$86,050</td>
<td>1.45</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Energy’s Economic Impact</th>
<th>Direct</th>
<th>Indirect</th>
<th>Induced</th>
<th>Total</th>
<th>Economic Multiplier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Employment</td>
<td>38,720</td>
<td>19,355</td>
<td>16,751</td>
<td>74,825</td>
<td>1.93</td>
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<tr>
<td>Sales/Output</td>
<td>$8.2B</td>
<td>$2.4B</td>
<td>$1.7B</td>
<td>$12.5B</td>
<td>1.51</td>
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</tbody>
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Tables above are sourced from JobsEQ to reflect the 10-county Pittsburgh region footprint.