OE ENERGY
MARKET SNAPSHOT
West Version – Data through March 2016

Office of Enforcement
Federal Energy Regulatory Commission
April 2016
Natural Gas and Fuels Markets

West
## West Day Ahead Natural Gas Prices
### Averaged Annually/Seasonally

<table>
<thead>
<tr>
<th>Year</th>
<th>Average Day Ahead Prices ($/MMBtu)</th>
<th>SoCal Border</th>
<th>Opal Wyoming Plant</th>
<th>El Paso Permian</th>
<th>GTN Malin Oregon</th>
<th>Henry Hub</th>
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<tbody>
<tr>
<td>2013</td>
<td>Annual</td>
<td>3.83</td>
<td>3.65</td>
<td>3.63</td>
<td>3.71</td>
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<tr>
<td></td>
<td>Summer</td>
<td>3.82</td>
<td>3.61</td>
<td>3.63</td>
<td>3.67</td>
<td>3.76</td>
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<tr>
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<td>Winter 2013/2014</td>
<td>4.89</td>
<td>4.88</td>
<td>4.68</td>
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<tr>
<td>2014</td>
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<tr>
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<td>Summer</td>
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<td>Winter 2014/2015</td>
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<td>2015</td>
<td>Annual</td>
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<tr>
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<td>Summer</td>
<td>2.67</td>
<td>2.51</td>
<td>2.51</td>
<td>2.56</td>
<td>2.67</td>
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<td>Winter 2015/2016</td>
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<td>2.01</td>
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<td>2016 YTD</td>
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<tr>
<td></td>
<td>Summer</td>
<td>1.76</td>
<td>1.70</td>
<td>1.69</td>
<td>1.72</td>
<td>1.93</td>
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<tr>
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<td>Winter 2016/2017</td>
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</tbody>
</table>

### Notes:

- Source: ICE
- Updated: Apr-2016
West Daily Day-Ahead Prices

Notes:
Source: ICE
Updated Apr-2016
West Average Monthly Basis

Source: ICE

Updated Apr-2016
Daily Rockies Natural Gas Demand All Sectors

Source: Derived from Bentek Energy data

Note: Rockies is defined as Montana, Wyoming, Colorado, and Utah

Updated: Oct 2015
Daily Southwest and Northwest Natural Gas Demand All Sectors

Southwest

Northwest

Source: Derived from Bentek Energy data
Note: Data derived from interstate natural gas pipeline flows.
Southwest is defined as New Mexico, Arizona, California, Nevada and the Northwest is defined as Idaho, Oregon, and Washington

Updated: Oct 2015
West Natural Gas Market: NG Consumption for Power Generation

Source: Derived from Bentek Energy data

Note: West is defined as Montana, Wyoming, Colorado, Utah New Mexico, Arizona, California, Nevada, Idaho, Oregon, and Washington

Updated: Oct 2015
Electricity Markets

West
West Electricity Market: CAISO Real Time Prices

CAISO Real Time Prices—Two Year History

Weighted Daily Avg ($/MWh)

Last 30 days SCE Daily Avg Real Time Price was $43.13.
Last 30 days SDG&E Avg Real Time Price was $43.34.
Last 30 days PG&E Daily Avg Real Time Price was $38.47.

Source: Genscape via Bloomberg

Updated: Oct 2015
Last 30 days average on peak load was 26 GW.
Last 30 days average off peak load was 21 GW.

Source: Genscape via Bloomberg

Updated: Oct 2015
Mountain Regional Generation Mix, Jun '13 to Jul '15

Coal Generation in Jul '15 was 18444 GWh (52%).
Gas Generation in Jul '15 was 9740 GWh (27%).
Hydro Generation in Jul '15 was 2583 GWh (7%).
Othr Renew Generation in Jul '15 was 1800 GWh (5%).
Nuclear Generation in Jul '15 was 2910 GWh (8%).
Oil Generation in Jul '15 was 20 GWh (0%).
Total Generation in Jul '15 was 35497 GWh.

Source: EIA via Bloomberg

Updated: Oct 2015
Hydro Generation in Jul '15 was 9933 GWh (30%).
Gas Generation in Jul '15 was 14607 GWh (44%).
Nuclear Generation in Jul '15 was 2107 GWh (6%).
Renew Generation in Jul '15 was 5434 GWh (16%).
Coal Generation in Jul '15 was 1256 GWh (4%).
Oil Generation in Jul '15 was 13 GWh (0%).
Total Generation in Jul '15 was 33350 GWh.

Source: EIA via Bloomberg