OE ENERGY MARKET SNAPSHOT
West Version – Data through September 2015

Office of Enforcement
Federal Energy Regulatory Commission
Oct 2015
Natural Gas and Fuels Markets
West
# West Natural Gas Market: Annual Hub Prices

## 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>2012</td>
<td>Annual</td>
<td>2.91</td>
<td>2.68</td>
<td>2.67</td>
<td>2.73</td>
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<tr>
<td></td>
<td>Summer</td>
<td>2.83</td>
<td>2.58</td>
<td>2.61</td>
<td>2.61</td>
<td>2.69</td>
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<tr>
<td></td>
<td>Winter 2012/2013</td>
<td>3.62</td>
<td>3.46</td>
<td>3.38</td>
<td>3.52</td>
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<tr>
<td>2013</td>
<td>Annual</td>
<td>3.83</td>
<td>3.65</td>
<td>3.63</td>
<td>3.71</td>
<td>3.72</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>
<td></td>
<td>Winter 2013/2014</td>
<td>4.89</td>
<td>4.88</td>
<td>4.68</td>
<td>4.88</td>
<td>4.61</td>
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<td>2014</td>
<td>Annual</td>
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<tr>
<td></td>
<td>Summer</td>
<td>4.34</td>
<td>4.07</td>
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<td>4.14</td>
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<tr>
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<td>Winter 2014/2015</td>
<td>3.15</td>
<td>3.03</td>
<td>3.01</td>
<td>3.06</td>
<td>3.21</td>
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<tr>
<td>2015 YTD</td>
<td>Annual</td>
<td>2.71</td>
<td>2.56</td>
<td>2.57</td>
<td>2.60</td>
<td>2.76</td>
</tr>
<tr>
<td></td>
<td>Summer</td>
<td>2.71</td>
<td>2.55</td>
<td>2.55</td>
<td>2.60</td>
<td>2.72</td>
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<tr>
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<td>Winter 2015/2016</td>
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</tbody>
</table>

**Notes:**
- Source: ICE

**Updated:** Oct-2015
West Natural Gas Market: Day-Ahead Prices

West Daily Day-Ahead Prices

Notes:
Source: ICE
Updated Oct-2015
West Daily Day-Ahead Basis

- SoCal Border Basis
- Opal Wyoming Plant Basis
- El Paso Permian Basis
- GTN Malin Oregon Basis

30D Moving Avg

Notes:
Source: ICE
Updated Oct-2015
West Natural Gas Market: Average Monthly Basis

West Average Monthly Basis

Notes:

Source: ICE

Updated Oct-2015
West Natural Gas Market: Daily Demand

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
CAISO Real Time Prices—Two Year History

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.
Mountain Regional Generation Mix, Jun '13 to Jul '15

States: AZ, CO, ID, MT, NM, NV, UT, WY

- 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