



# ENERGY ASSURANCE DAILY

Monday Evening, January 23, 2017

## Electricity

### Approximately 40,000 Customers Remain without Power in California January 23 following Heavy Rain, Snow Storms January 20 – 23

A series of winter storms brought heavy rain, snow, and strong winds to portions of Northern and Southern California over the weekend, knocking out power to thousands of electric utility customers with major impacts observed on Friday and Sunday. Moderate to heavy rain and snow with wind gusts between 30 – 50 mph moved through Pacific Gas & Electric’s (PG&E’s) and Sacramento Municipal Utility District’s (SMUD’s) Northern California service territories late Friday morning. Shortly after, heavy rains and strong winds began impacting the Los Angeles and San Diego metropolitan areas knocking out power to customers served by San Diego Gas & Electric (SDG&E), Southern California Edison (SCE), and Los Angeles Department of Water and Power (LADWP). On Sunday, another round of storms brought a windy, wintry mix across northern portions of the state and heavy rains to the Los Angeles area, disrupting restoration efforts and adding new outages for California utilities. The table below shows peak outages reported by utilities on Friday, January 20, and Sunday, January 22, and the latest reported outages. The “Peak” column shows the highest number of customers reported without power by each utility over the course of the storm. As of 3:30 p.m. EST, January 23, at least 38,869 customers remained without power. The largest remaining outages are located in PG&E’s service territory. As of 3:30 p.m. EST, PG&E was reporting nearly 31,000 customers without power, down from a peak of nearly 62,000 customers on Sunday.

California Customer Power Outages January 20 – January 23			
Electric Utility	Peak (January 20)	Peak (January 22)	Latest Reported
Los Angeles Department of Water and Power	10,000	9,400	n/a
Pacific Gas & Electric	37,091	61,765	30,928
Sacramento Municipal Utility District	9,396	15,032	38
San Diego Gas & Electric	39,053	2,781	57
Southern California Edison	30,892	25,895	7,846
<b>TOTAL*</b>			<b>38,869</b>

\*Total outages represent only electric utilities listed in this table.

Sources:

- <https://eagle-i.doe.gov/Analytics/Reports/Reports.aspx>
- [http://www.tellmeladwp.com/go/doc/1475/2913562/?adbcs=social\\_2017\\_0120\\_1263651&adbid=822573227146936320&adbpl=tw&adbpr=22584849](http://www.tellmeladwp.com/go/doc/1475/2913562/?adbcs=social_2017_0120_1263651&adbid=822573227146936320&adbpl=tw&adbpr=22584849)
- <https://twitter.com/LADWP/status/823310513115250688>
- <http://sacramento.cbslocal.com/2017/01/22/storms-cause-widespread-power-outages-in-sacramento-area/>

## Approximately 33,000 Customers Remain without Power January 23 after Wind Storms, Tornadoes Impact Gulf Coast January 22

A line of severe storms brought heavy rain, strong winds, and tornadoes across the Gulf Coast on Sunday, knocking out power to thousands of utility customers from Texas to Florida. Wind gusts of up to 50 mph were reported on Sunday across southern Texas, including the Houston metropolitan area, while severe storms and tornadoes battered portions of Louisiana, Mississippi, Alabama, Georgia, and Florida. As of 3:30 p.m. EST, at least 32,568 customers remained without power. The table below shows utilities that experienced peak outages greater than 5,000 customers and the latest reported outages by utility. The “Peak” column shows the highest number of customers reported without power by each utility over the course of the storm.

<b>Gulf Coast Customer Power Outages</b>			
January 22 – January 23			
<b>Electric Utility</b>	<b>State</b>	<b>Peak</b>	<b>Latest Reported</b>
Central Alabama Electric Cooperative	AL	5,700	906
City of Tallahassee	FL	30,000	6,200
Clay Electric Cooperative	FL	7,722	102
Duke Energy	FL	19,696	2,396
Florida Power & Light	FL	33,325	10,697
Gulf Power	FL	7,139	31
Suwannee Valley Electric Cooperative	FL	7,197	466
Talquin Electric	FL	22,000	2,472
Tampa Electric	FL	7,548	438
Withlacoochee River Electric Cooperative	FL	7,794	142
Georgia Power	GA	32,045	5,306
North Georgia Electric Membership Corp.	GA	7,114	90
Entergy Louisiana	LA	9,368	1,026
Southwestern Electric Power Co.	LA	9,838	455
Entergy Mississippi	MS	13,316	52
AEP Texas	TX	20,318	663
CenterPoint Energy	TX	36,054	393
CPS Energy	TX	11,144	95
Entergy Texas	TX	8,285	2
Oncor	TX	20,035	636
<b>TOTAL*</b>			<b>32,568</b>

\*Total outages represent only electric utilities listed in this table.

Sources:

<https://eagle-i.doe.gov/Analytics/Reports/Reports.aspx>

<https://twitter.com/COTNews/status/823317827138551809>

[https://twitter.com/TECtwi?ref\\_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor](https://twitter.com/TECtwi?ref_src=twsrc%5Egoogle%7Ctwcamp%5Eserp%7Ctwgr%5Eauthor)

<https://my.talquinelectric.com/outages/maps/>

## Over 24,000 Customers without Power as Winter Storm Begins Impacting Pennsylvania, New Jersey January 23

A winter storm bringing heavy snow and strong winds to the Northeast region of the United States began affecting electric utilities in Pennsylvania and New Jersey on Monday morning with impacts expected to persist across the region through Tuesday afternoon. PECO said a Nor'easter with heavy rain and wind gusts up to 45 mph was moving through its service territory on Monday, knocking out power to 27,318 customers at the peak of the impacts. Jersey Central Power and Light (JCP&L) experienced a peak of 17,612 outages on Monday afternoon. As of 3:30 p.m. EST, 7,583 PECO customers and 16,819 JCP&L customers remained without power.

<https://eagle-i.doe.gov/Analytics/Reports/Reports.aspx>

<https://twitter.com/PECOconnect/status/823610383302881281>

## Southern's 856 MW Hatch Nuclear Unit 1 in Georgia Reduced to 59 Percent by January 22

On the morning of January 21, the unit was operating at 96 percent.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2017/>

## **TVA's 1,125 MW Sequoyah Nuclear Unit 1 in Tennessee Ramped Up to 93 Percent by January 21**

On the morning of January 20, the unit was operating at 44 percent.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2017/>

## **PG&E's 102 MW Electra Aggregate Hydro Unit 1–2 in California Shuts by January 20; Restarts by January 21; Shuts by January 22**

The unit entered unplanned outages.

<http://content.caiso.com/unitstatus/data/unitstatus201701221515.html>

<http://content.caiso.com/unitstatus/data/unitstatus201701211515.html>

<http://content.caiso.com/unitstatus/data/unitstatus201701201515.html>

## **SCE's 820 MW Big Creek Hydro Unit in California Reduced by January 21**

The unit entered an unplanned curtailment of 224 MW.

<http://content.caiso.com/unitstatus/data/unitstatus201701211515.html>

## **NRC Completes Safety Review of Proposed New 1,470 MW Reactor at North Anna Nuclear Power Plant in Virginia**

The U.S. Nuclear Regulatory Commission has completed its Final Safety Evaluation Report for a Combined License for a proposed reactor at the North Anna site near Mineral, Virginia, the commission announced Friday. The report concludes there are no safety aspects that would preclude issuing the license for construction and operation of the proposed reactor, adjacent to two operating reactors approximately 40 miles northwest of Richmond. The inspection staff will provide the report and the Supplemental Environmental Impact Statement on the North Anna application to the Commission for the mandatory hearing phase of the licensing process. In the mandatory hearing, expected to take place later this year, the Commission will examine whether the staff's review supports the findings necessary to issue a license. Following the mandatory hearing, the Commission will vote on whether to authorize the staff to issue the license. Dominion Virginia Power submitted its license application for North Anna on Nov. 26, 2007, for permission to build and operate an Economic Simplified Boiling Water Reactor at the site. The NRC certified the design in 2014. The NRC issued an Early Site Permit for North Anna in November 2007, and the agency supplemented the permit's environmental review for the proposed North Anna reactor in March 2010. Dominion Virginia Power has not made a final decision to build the third reactor at its North Anna power plant. The project would also need state approval.

<https://www.dom.com/about-us/making-energy/nuclear/north-anna-power-station>

<https://www.nrc.gov/reading-rm/doc-collections/news/2017/17-003.pdf>

Associated Press, 12:31 January 20, 2017

## ***Petroleum***

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### **Update: Enbridge Restarts 230,000 b/d Ozark Pipeline in Missouri January 19**

Enbridge says Line 51 was safely restarted at 8:57 p.m. local time Thursday. The Ozark pipeline, also known as Line 51, which transports oil from Cushing, Oklahoma, to Wood River, Illinois, was shut after the release of about 365 barrels (15,330 gallons) of light oil in Lawrence County, Missouri on January 14.

Reuters, 22:54 January 19, 2017

### **Phillips 66 Reports Power Loss, Process Unit Restart at Its 247,000 b/d Sweeny, Texas Refinery January 22**

Phillips 66 reported that a feeder at its Sweeny refinery tripped Sunday Monday, resulting in a power loss at Unit 27, according to a filing with the Texas Commission on Environmental Quality. Operators restarted the process unit and returned operating parameters to normal, the filing said.

<http://www2.tceq.texas.gov/oce/eeer/index.cfm?fuseaction=main.getDetails&target=250892>

### **PES Restarts Units at Its 335,000 b/d Philadelphia, Pennsylvania Refinery January 18**

Philadelphia Energy Solutions restarted Cumene Units 8733 and 1733 at the Girard Point section of its Philadelphia refinery on January 18, according to a filing with a state pollution regulator made public on Friday. In addition, operators shut down the 431 DIB Unit at Girard Point on January 17; restarted the 1232 CO Boiler at Girard Point on January 16; and restarted the no. 870 gasoline hydrotreater at the Point Breeze section on January 13, the filing said.

Reuters, 13:38 January 20, 2017

### **Update: FCCU at Motiva's 603,000 b/d Port Arthur, Texas Refinery Operating Normally January 19 – Sources**

The gasoline-producing fluidic catalytic cracking unit (FCCU) was operating normally on Thursday at Motiva Enterprises' Port Arthur, Texas refinery following a malfunction, sources familiar with plant operations said. The air blower on the 81,000 b/d FCCU 3 malfunctioned on Wednesday night as the unit was returning to full production following a malfunction on January 14. The FCCU was running at 75,000 b/d, or 93 percent of capacity, on Thursday afternoon, the sources said. On January 14, a pump for fine powder catalyst failed, forcing the shutdown of the FCCU. The unit restarted on January 16.

Reuters, 19:17 January 19, 2017

### **Flint Hills Reports Flaring at Its 295,630 b/d Corpus Christi, Texas West Plant January 21**

Flint Hills Resources reported that operating conditions at its Corpus Christi West plant made flaring necessary on Saturday, according to a notice posted to a community information line.

Reuters, 22:56 January 22, 2017

### **Tesoro Completes Unplanned Work at Its 166,000 b/d Martinez, California Refinery January 23**

Tesoro Corp. on Monday reported it had completed unplanned maintenance at its Martinez refinery. The refinery on Friday had reported an operational upset, according to a filing with the California Emergency Management Agency. The filing did not identify the unit involved in the incident.

Reuters, 22:46 January 22, 2017

Reuters, 11:43 January 23, 2017

### **ExxonMobil Reports Boiler Trip, Compressor Snag at Its 560,500 b/d Baytown, Texas Refinery January 20**

ExxonMobil Corp. reported a boiler trip at its Baytown refinery was due to severe weather and a compressor trip on Friday, according to filings with the Texas Commission on Environmental Quality.

<http://www2.tceq.texas.gov/oce/eer/index.cfm?fuseaction=main.getDetails&target=250877>

<http://www2.tceq.texas.gov/oce/eer/index.cfm?fuseaction=main.getDetails&target=250878>

### **Phillips 66 Reports Unit Upset at Its 120,200 b/d Rodeo, California Refinery January 22**

Phillips 66 reported an unspecified unit upset at its Rodeo refinery Sunday, according to a filing with the California Emergency Management Agency.

Reuters, 21:14 January 22, 2017

### **Valero Reports Normal Operations at Its 335,000 b/d Port Arthur, Texas Refinery January 23 after Hydrotreater Upset January 22**

A diesel hydrotreater was operating normally on Monday at Valero Energy Corp's Port Arthur refinery, one day after it malfunctioned, according to a source familiar with plant operations. Valero had reported the 43,000 b/d hydrotreater malfunctioned Sunday morning, according to a filing with state regulators.

<http://www2.tceq.texas.gov/oce/eer/index.cfm?fuseaction=main.getDetails&target=250882>

Reuters, 11:21 January 23, 2017

### **Process Unit Upset Leads to Flaring at Phillips 66's 336,000 b/d Wood River, Illinois January 21**

Phillips 66 reported an unspecified process unit upset and flaring at its Wood River refinery on January 21, according to a filing with the Illinois Emergency Management Agency.

Reuters, 02:05 January 23, 2017

## **Tesoro Reports Unplanned Flaring, Breakdown at Its 256,830 b/d Carson, California Refinery January 22**

Tesoro Corp. reported unplanned flaring due to a breakdown at its Carson refinery, according to a filing with state pollution regulators.

Reuters, 23:51 January 22, 2017

## **Power Interruption Leads to Emissions at Lyondell's 270,000 b/d Houston, Texas Refinery January 19**

LyondellBassell subsidiary Houston Refining LP reported emissions at its Houston refinery last Thursday were due to a temporary power interruption in part of the Sulfur Recovery Complex, according to a filing with the Texas Commission on Environmental Quality.

<http://www2.tceq.texas.gov/oce/eer/index.cfm?fuseaction=main.getDetails&target=250831>

## **Update: HCU at Motiva's 235,000 b/d Convent, Louisiana Refinery May Resume Full Production in February – Sources**

Motiva Enterprises' Convent refinery may restore full production to the fire-damaged heavy oil hydrocracking unit (HCU) in February, ahead of schedule, sources familiar with plant operations said on Monday. The 45,000 b/d HCU was heavily damaged in an August 2016 fire. The HCU restored production at half capacity in late November and, at that time, full production to the unit was expected to be restored sometime in March. In addition to repairs to the unit, Motiva is also reconfiguring the unit to run a wider slate of feedstocks. The revamp had been planned ahead of the fire and was scheduled for February 2017. The reconfiguration was integrated into the repairs. The reconfiguration is part of Motiva's plan to link the Convent refinery with Motiva's refinery in Norco, Louisiana, and operate them as a single plant.

Reuters, 11:41 January 23, 2017

## **BP Thunder Horse South Expansion in Gulf of Mexico Starts Up January 23; Boosts Production at the Facility by 50,000 boe/d**

BP today announced that it has started up the Thunder Horse South Expansion project in the deepwater Gulf of Mexico 11 months ahead of schedule. The project is expected to boost production at the facility by an estimated 50,000 barrels of oil equivalent per day (boe/d), further increasing output at one of the largest oil fields in the Gulf of Mexico. A BP executive said the project marks the first of several major upstream start-ups expected before the end of this year and a major step toward the company's goal of adding 800,000 barrels of new production by 2020. The Thunder Horse South Expansion project adds a new subsea production system roughly two miles to the south of the existing Thunder Horse platform. The system is a collection point for wells connected to the Thunder Horse platform by two 11,000-foot flowlines installed on the seabed in late 2016. The first new well for the project tapped into the highest amount of hydrocarbon bearing sand seen to date at the Thunder Horse field, with drilling results confirming more than 500 feet of net pay. Developed with partner ExxonMobil, the Thunder Horse platform sits in more than 6,000 feet of water and began production in June 2008. It has the capacity to handle 250,000 barrels of oil and 200 million cubic feet per day of natural gas. The facility continued to operate during construction and installation of the new subsea production and pipeline system.

<http://www.bp.com/en/global/corporate/press/press-releases/bp-thunder-horse-south-expansion-starts-up-ahead-of-schedule-and-under-budget.html>

## **U.S. Oil Rig Count Rises to 551 – Baker Hughes**

U.S. energy companies this week added the most oil rigs in nearly four years, extending an eight-month recovery as drillers take advantage of a deal by OPEC to cut supplies that has boosted prices over \$50 a barrel since early December. Drillers added 29 oil rigs in the week to January 20, bringing the total count up to 551, the most since November 2015, energy services firm Baker Hughes Inc. said on Friday. During the same week a year ago, there were 510 active oil rigs.

Reuters, 13:47 January 20, 2017

## **New 150,000 b/d Hewitt Segment of Plains' Red River Pipeline Began Supplying Crude Oil to Valero's 86,000 b/d Ardmore, Oklahoma Refinery January 2017**

Valero Partners Wynnewood LLC, an indirect wholly-owned subsidiary of Valero Energy Partners LP, on Thursday announced that it has acquired a 40 percent undivided interest in the Hewitt segment of Plains All American Pipeline, L.P.'s Red River pipeline. The Hewitt segment is a newly constructed 138-mile, 16-inch crude oil pipeline with 150,000 b/d of capacity. The purchase also includes a 40 percent undivided interest in two 150,000 shell barrel capacity tanks located at Hewitt Station. The Hewitt segment originates at Plains Marketing L.P.'s Cushing, Oklahoma terminal and ends at Hewitt Station in Hewitt, Oklahoma. The pipeline began supplying crude oil to Valero's refinery in Ardmore, Oklahoma in January 2017.

<http://www.investorvlp.com/phoenix.zhtml?c=252308&p=irol-newsArticle&ID=2238254>

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## **Natural Gas**

### **SoCalGas Urges Customers in California to Conserve Natural Gas January 23**

Southern California Gas Co. (SoCalGas) announced that beginning at 7:00 a.m. PST Monday, a SoCalGas Advisory has been issued and will remain in effect until further notice. A SoCalGas Advisory asks all customers to immediately reduce their natural gas use to help lower the risk of possible natural gas and electricity shortages. SoCalGas and San Diego Gas & Electric (SDG&E) have also issued a system-wide curtailment watch for noncore customers (large commercial and industrial customers, including electric generation plants). SoCalGas and SDG&E are currently meeting system demands utilizing storage withdrawal and flowing supplies. However, due to forecasted cold weather conditions throughout the SoCalGas and SDG&E service territories, there is a potential for a supply shortfall. Customers are advised that they may be receiving a notice to curtail service. More than 95 percent of Southern Californians use natural gas for home heating, and about 60 percent of the electricity used in California comes from power plants that run on natural gas. By conserving natural gas during this critical period, SoCalGas customers can help lower the risk of possible natural gas and electricity shortages. The California Public Utilities Commission ordered the creation of the SoCalGas Advisory program to help address state agencies' concerns about regional energy reliability this winter due to the moratorium on injection operations at Aliso Canyon.

<http://sempra.mediaroom.com/index.php?s=19080&item=137242>

### **U.S. Natural Gas Rig Count Rises to 142 – Baker Hughes**

The number of rigs drilling for natural gas in the United States rose by 6 this week to 142, data from oil services firm Baker Hughes showed on Friday.

Reuters, 13:00 January 20, 2017

### **Atlas Pipeline Reports Power Loss, Flaring at Its 195 MMcf/d Midkiff Gas Plant in Texas January 22**

Atlas Pipeline reported that a third party-purchased power loss caused a total plant shutdown and led to flaring at its Midkiff plant Sunday, according to a filing with state regulators.

<http://www2.tceq.texas.gov/oce/ee/index.cfm?fuseaction=main.getDetails&target=250893>

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## **Other News**

### **EPA Approves Higher Production Volumes for Commonwealth Agri-Energy's 35 MMgal/Year Hopkinsville, Kentucky Ethanol Plant**

The U.S. EPA recently approved an efficient producer pathway petition for Commonwealth Agri-Energy LLC's Hopkinsville, Kentucky facility, which has a nameplate capacity of 35 MMgal/year, according to an industry magazine. Plants that have approved efficient producer pathways are able to generate renewable identification numbers (RINs) for production volumes above those grandfathered under current renewable fuel standard (RFS) regulations. When the RFS was established in its current form, the rulemaking grandfathered in the production volume of existing corn ethanol plants. To qualify for compliance with the RFS program, any new production above the grandfathered gallons must meet a 20 percent GHG reduction threshold when compared to the program's gasoline baseline. The efficient producer pathway petition process is designed to aid ethanol plants in gaining pathway approval for expanded production above those grandfathered volumes.

<https://www.epa.gov/sites/production/files/2017-01/documents/commonw-agri-energy-deter-ltr-2016-12-15.pdf>  
<http://www.ethanolproducer.com/articles/14077/epa-approves-efficient-producer-pathway-for-kentucky-plant>

## California Updates ‘Scoping Plan’ to Achieve 2030 Climate Goals

The California Air Resources Board (CARB) released an update to the Assembly Bill (AB) 32 Scoping Plan to reduce greenhouse gas emissions by 40 percent below 1990 levels by 2030. The plan outlines the most effective ways to reach the 2030 goal, including continuing California’s Cap-and-Trade Program, and introduces a new approach to reduce greenhouse gases from refineries by 20 percent. Achieving the 2030 target under the proposed plan will continue to build on investments in clean energy and set the California economy on a trajectory to achieving an 80 percent reduction in greenhouse gas emissions by 2050. AB 32, signed in 2006, set California’s initial goal to reduce greenhouse gas emissions to 1990 levels by 2020 and directed CARB to develop a climate change scoping plan—to be updated every five years—detailing specific measures needed to reach the target. The 2017 update to the plan, required by the Governor’s April 2015 Executive Order, updates the previous scoping plan to account for the new 2030 target codified in Senate Bill 32. The first of three public hearings on the proposed plan will be held at the regularly scheduled Board meeting on January 27. CARB is slated to hold workshops in February and hear an update at the February 16 Board meeting. The Final 2017 Scoping Plan Update will be released in late March and be considered for approval by the Board in late April.

<https://www.arb.ca.gov/newsrel/newsrelease.php?id=891>

## International News

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### Libyan Oil Output Falls to Roughly 640,000 b/d by January 23 after Electrical Fault at Sarir Oilfield – NOC

Libya’s oil production has fallen by 60,000 b/d after an electrical fault at the Sarir oilfield, the head of the National Oil Corp (NOC) said on Monday. The fault caused a fire at a substation. Production was around 700,000 b/d before the incident, the official said. On Friday NOC reported production had risen to roughly 722,000 b/d after recovering from a dip in output partly caused by bad weather. Production has risen from lows of less than 300,000 b/d last year largely because of the reopening of ports. But it remains well under the 1.6 million b/d Libya produced before its 2011 uprising.

Reuters, 04:57 January 20, 2017

Reuters, 08:02 January 23, 2017

### Bombings Halt Pumping at Colombia’s 210,000 b/d Cano-Limon Oil Pipeline January 22

Bomb attacks last week halted pumping operations along Colombia’s second most important oil pipeline, the Cano-Limon Covenas pipeline, state oil company Ecopetrol said on Sunday. The company did not say who was responsible for the attacks but military sources said it was the leftist National Liberation Army (ELN) rebels. Production and exports were not interrupted, Ecopetrol said. The seven attacks occurred last week in a rural area of northern Norte de Santander and Arauca provinces, close to the border with Venezuela. The 485-mile (780 km) pipeline has the capacity to transport up to 210,000 b/d of crude oil from fields operated by U.S.-based Occidental Petroleum to the Caribbean port of Covenas.

Reuters, 14:34 January 22, 2017

<http://www.reuters.com/article/us-colombia-oil-idUSKBN15611Y>

### Under OPEC Oil Deal, Iraq Cuts 180,000 b/d of Oil Production by January 23; Has Plans to Cut 30,000 b/d More – Minister

Iraq has reduced its oil production by around 180,000 b/d and plans to cut a further 30,000 b/d before the end of the month, an Iraqi oil minister said on Monday. The cut came from a 4.75 million b/d level. Iraq agreed to lower its production by 210,000 b/d under a deal struck in December between the Organization of the Petroleum Exporting Countries and other producers led by Russia.

23-Jan-2017 07:23:37 AM

[http://www.rigzone.com/news/oil\\_gas/a/148207/Iraq\\_Has\\_Cut\\_180000\\_Bpd\\_As\\_Part\\_Of\\_OPEC\\_Oil\\_Deal](http://www.rigzone.com/news/oil_gas/a/148207/Iraq_Has_Cut_180000_Bpd_As_Part_Of_OPEC_Oil_Deal)

## Energy Prices

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U.S. Oil and Gas Prices			
January 23, 2017			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	52.72	52.31	32.02
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	3.21	3.32	2.20

Source: Reuters

## Links

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***This Week in Petroleum*** from the U.S. Energy Information Administration (EIA)

<http://www.eia.gov/oog/info/twip/twip.asp>

Updated every Wednesday.

***Weekly Petroleum Status Report*** from EIA

[http://www.eia.gov/oil\\_gas/petroleum/data\\_publications/weekly\\_petroleum\\_status\\_report/wpsr.html](http://www.eia.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html)

Updated after 10:30 AM & 1:00 PM ET every Wednesday.

***Natural Gas Weekly Update*** from EIA

<http://www.eia.gov/oog/info/ngw/ngupdate.asp>

Updated after 2:00 PM ET every Thursday.

### ENERGY ASSURANCE DAILY

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<http://www.oe.netl.doe.gov/ead.aspx>

Please direct comments and questions to: [ead@oe.netl.doe.gov](mailto:ead@oe.netl.doe.gov)