



# ENERGY ASSURANCE DAILY

Friday Evening, May 20, 2016

## Major Developments

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### **Update: Wildfire Conditions Improve in Fort McMurray, Threat to Oil Sands Sites Diminishing, Work Camp Evacuations Remain In Place May 20**

Firefighters battling a wildfire that has threatened oil sands facilities near Fort McMurray, Alberta made progress on Thursday as a shift in winds pushed the fire away from communities and oil sands facilities. An Alberta wildfire officer said cooler weather and rain would also aid efforts to get the incident under control. Officials said on Thursday afternoon there has been no impact on the city, industrial facilities, or work camps. The fire, which began on May 1, has burned approximately 505,000 hectares (about 1.25 million acres) and had not increased significantly in size since Thursday after crossing into the neighboring province of Saskatchewan. On Monday, the fire surged, forcing the evacuation of 8,000 oil sands workers, destroyed a work camp, and prolonged a shutdown that has cut Canadian oil output by one million b/d. A mandatory evacuation order remains in place at 19 work camps north of Fort McMurray. The latest round of evacuations suggest production may be suspended for longer than companies and analysts had previously anticipated. To date, none of the oil sands resources have caught fire, and industry has intensified efforts to ensure facilities are well-protected. Since May 4, Canadian oil sands companies shut approximately 1.07 million b/d of production. During the week ending Friday, May 13, some companies had restarted operations at significantly reduced capacity. The northern Alberta oil sands region normally produces roughly 2.2 million b/d and has more than 20 oil production operations clustered within a 60-mile radius of Fort McMurray, according to government data. The following list of companies details the most recent status update from impacted companies, which began on Wednesday, May 4. The red text indicates an update to the wildfire impacts reported in Thursday's EAD publication.

- **Suncor Energy's oil sands sites on Friday remained under mandatory evacuation and probably would not be lifted until air quality stable and wildfire conditions improve, according to an Alberta official. On Wednesday, May 18 Suncor said the fire burned near its Base Plant, but fire breaks held and the threat has diminished.** On Tuesday, May 17 the company said that all personnel for its Base Plant and MacKay River operations will be relocated out of the region with the exception of a minimum number of emergency response and security workers required to close operations at Base Plant. Only the minimum number of essential personnel will staff the Firebag project, and personnel at the Fort Hills site have not been affected. On the evening of Monday, May 16 that the Province issued mandatory evacuations of its McKay River operation as well as the Borealis, Millennium, and Hudson lodges, which are located north of Fort McMurray and south of Fort McKay and provide lodging to industry workforces in the region. As a result, Suncor said it was moving its workers from those areas and that it had initiated a staged and orderly shutdown of its base plant operations. Suncor closed its 350,000 b/d Base Plant operations mining site, and its MacKay River and Firebag thermal oil sands operations on May 4. It cited the precautionary shut-in of takeaway pipelines and limited availability of diluent. Prior to the fire, Suncor said it was operating at reduced rates of approximately 300,000 b/d because of a maintenance turnaround.
- **Syncrude Canada's oil sands sites on Friday remained under mandatory evacuation and probably would not be lifted until air quality stable and wildfire conditions improve, according to an Alberta official.** On Thursday, May 19 the force majeure on crude production was extended, according to traders familiar with the matter. The company's customers were told to expect no further shipments for May. On Wednesday, May 18 the company said that its facilities north of the wildfire were intact. On Monday, May 16, the company said it was continuing to deploy employees to its Mildred Lake and Aurora oil sands sites to support restoration efforts. As of Sunday, May 15, several hundred employees were working to assess and ensure the safety of the sites; prepare for start-up by inspecting units and equipment; and commissioning the re-start of operations in a staged manner. Syncrude shut its 315,000 b/d Aurora bitumen mine by Saturday, May 7 while other projects were operating at minimal levels. A power generator was restarted at its Aurora bitumen mine by Tuesday, May 10. Syncrude is an oil sands project owned by a consortium of companies, including majority owner Suncor.

- **Shell Canada** said on Thursday, May 19 that its Albian Sands operation remains safe and secure, and that the mandatory evacuation order north of Fort McMurray has not been extended to include its Albian Sands sites. On Tuesday, May 17, the company said its Albian Sands operations were not under an immediate threat from the wildfire, and that production continues at reduced rates. On Monday, May 9, the company restarted production at a reduced rate at its 255,000 b/d Albian oil sands mining operation, which include the Muskeg River and Jackpine oil sands mines. The company said it will fly staff in and out to help resume operations over the coming days and weeks.
- **Nexen (CNOOC Ltd)** said on Saturday, May 14 that its emergency response team had responded to a possible hydrogen sulfide gas leak at the company's Long Lake facility, which was reported by the Alberta Energy Regulator on Friday, May 13. All tests for hazardous gas have come back negative. The company performed an aerial site assessment on Thursday, May 12, which revealed main facility and surrounding well pads were intact, however the camp site had been destroyed. The Long Lake operation, which was shut on Wednesday, May 4, can produce approximately 50,000 b/d of synthetic crude but had been operating at reduced rates since late January due to an explosion at the plant.
- **ConocoPhillips** said on Friday, May 13 that the fire was 7.5 miles from its 30,000 b/d Surmont oil sands site, which is 39 miles southeast of Fort McMurray. The fire had not advanced since the morning of Thursday, May 12, but a webcam at the site revealed extremely smoky conditions. A spokesman said operations at the Surmont site will remain shut until the Alberta government allows workers to stay overnight at Surmont's camp. The Surmont site was shut and evacuated on Thursday, May 5.
- **Husky Energy** on Sunday, May 8 shut production at its 30,000 b/d Sunrise Energy Project. Husky had previously reduced operations to 10,000 b/d.
- **Connacher Oil and Gas Ltd** said on Thursday, May 5 it was restoring production at its Great Divide operation back up to 8,000 b/d, after cutting output to 4,000 b/d on Wednesday, May 4. The Great Divide operation, which is located 50 miles south of Fort McMurray, produced 14,000 b/d during the fourth quarter of 2015.
- **Canadian Natural Resources Ltd** said on Wednesday, May 18 that the wildfire continues to be a safe distance from its Horizon project with no threat to the health and safety of its staff or infrastructure. On Tuesday, May 17 that it was closely monitoring the forest fires and changing wind conditions in the Fort McMurray area with the health and safety of its teams as its first priority. The company said the fire continues to be a safe distance from its Horizon oils sands site and that operations were returning to stable conditions following minor upgrader repairs over the past weekend, which were unrelated to the fire. The company cut output by an unspecified amount at its Horizon project by Sunday, May 8. The Horizon project produced approximately 129,000 b/d of synthetic crude oil during the fourth quarter of 2015.
- **Statoil ASA** on Friday, May 20 said its Leismer oil sands project was producing 13,000 b/d and remains on wildfire alert. On Wednesday, May 18 Leismer was producing 9,000 b/d after initiated start-up on Friday, May 13. Statoil said on Sunday, May 8 that it was suspending all production at its 20,000 b/d Leismer facility located south of Fort McMurray.
- **Athabasca Oil Corp** said on Thursday, May 5 that it evacuated and shut its Hangingstone project. The project was expected to produce 12,000 b/d by the fourth quarter 2016.
- **Imperial Oil Ltd** on Thursday confirmed it restarted limited operations at its Kearl oil sands site, but indicated full restoration would depend on a number of factors, including safety and air quality. The project was expected to produce 12,000 b/d by the fourth quarter 2016.
- **Cenovus** said on Tuesday, May 17 that its operations in northern Alberta were not affect by the wildfire activity that led to the precautionary evacuation of several oil facilities north of Fort McMurray. The company said its Christina Lak facility continues to operate with normal production and staffing levels, and that the southern edge of the wildfire was more than 40 miles north of the site. On Friday, May 6 the company said that essential staff were maintaining full production at its Christina Lake oil sands site. The company said it would return non-essential site staff beginning on Thursday, May 12.
- **MEG Energy and Japan Canada Oil Sands Ltd** said their operations near Fort McMurray were not affected.
- **Enbridge Inc** said on Monday, May 16 it was working with provincial firefighting crews to contain a fire near its Cheecham terminal. The existing firebreak around the terminal was being widened and its crew were assessing next steps in fire suppression tactics. Enbridge said some pipelines into and out of the terminal were operating, and it continues to monitor the situation very closely. On Friday, May 13 the company was working to restore operations to its Alberta pipeline network after fires halted the movement of an estimated 900,000 b/d of oil sands crude. The company resumed operations at its Cheecham terminal by the evening of Wednesday, May 11, which is located about 47 miles southeast of Fort McMurray and receives crude from production sites to be shipped on the Enbridge pipeline network. By the evening of Thursday, May 12, reports confirmed that the company was injecting volumes into its 550,000 b/d

Waupisoo pipeline (Line 18) and its 570,000 b/d Athabasca pipeline (Line 19), which transport crude south from the Cheecham terminal to the Edmonton and Hardisty markets, respectively.

- **Inter Pipeline** said late on Wednesday, May 18 that it had safely resumed operations on the Polaris and Corridor pipeline systems, and that it continues to monitor the situation while working with its customers. The company confirmed on Tuesday, May 17 that operations on Polaris and Corridor pipeline systems were partially shut down as a proactive measure due to the on-going fires around Fort McMurray. On Wednesday, May 4, the company shut its 346,000 b/d Corridor pipeline system and a section of its 540,000 b/d Polaris diluent pipeline system near Fort McMurray. The company resumed operations on the Polaris pipeline system on Thursday, May 5, and said that the Corridor system was ready to restart as soon as Shell's oil sands site restore production.
- **Pembina's** Algar to Cheecham Lateral remains fully operational as of Thursday, May 5, but was not delivering due to the shutdown of downstream facilities. All other Pembina facilities in the Fort McMurray area remain fully operational.
- **TransCanada Corp** said it did not expect the wildfire to affect deliveries of natural gas. The nearest pipeline was about 12 miles west of the current wildfire.

Reuters, 19:43 May 19, 2016

Reuters, 13:34 May 20, 2016

<http://www.alberta.ca/premier.cfm>

<http://fingfx.thomsonreuters.com/gfx/rngs/1/1706/2971/index.html>

<http://www.suncor.com/fort-mcmurray-fires>

<http://www.syncrude.ca/our-news/syncrude-insights/2016/syncrude-continues-to-implement-safe-restart-plan/>

<http://www.shell.ca/en/aboutshell/employee-help-site.html>

<http://www.nexencnoocld.com/en/AboutUs/MediaCentre/FortMcForestFires.aspx>

<http://www.conocophillips.ca/newsroom/Pages/Fort-McMurray-Fire.aspx>

[http://www.cnrl.com/upload/media\\_element/1011/07/may-18-2016-public-statement-fort-mcmurray-forest-fires.pdf](http://www.cnrl.com/upload/media_element/1011/07/may-18-2016-public-statement-fort-mcmurray-forest-fires.pdf)

<https://twitter.com/StatoilASA/status/731200671542706176>

<https://www.atha.com/news/releases.html>

[http://www.imperialoil.ca/Canada-English/about\\_media\\_releases.aspx](http://www.imperialoil.ca/Canada-English/about_media_releases.aspx)

<http://www.cenovus.com/news/news-releases/2016/20160504-Fort-McMurray-fire-response.html>

<http://www.enbridge.com/wildfires-in-fort-mcmurray>

<http://www.interpipeline.com/ourresponsibility/communityinvestment/fort-mcmurray-fires.cfm>

<http://www.pembina.com/media-centre/news-releases/>

<http://finance.yahoo.com/news/imperial-provides-kearl-operations-224800438.html>

### **Update: Alberta Oil Sands Cogeneration Capacity Increases to 465 MW May 20 – AESO**

Cogeneration electric plants' output around Fort McMurray in Alberta, Canada increased to 465 MW on Friday morning from 431 MW Thursday afternoon, according to the Alberta Electric System Operator (AESO). There is about 3,200 MW of power cogeneration capacity serving the oil sands industry in Alberta, with about two-thirds located in the Fort McMurray area. Before the wildfires started, the Fort McMurray units were producing about 1,300 MW, according to local media reports. Since the fires started on May 1, generators have shut Suncor's 197 MW MacKay River on May 4, the 510 MW Syncrude plant on May 7, Imperial's 84 MW Kearl, Suncor's 473 MW Firebag by May 8, Suncor's 50 MW Base, TransAlta's 376 MW Poplar Creek and Firebag again by May 17, according to the AESO. The Syncrude plant returned to service on May 10 and Kearl and Firebag on May 13 and Firebag again by May 18.

Reuters, 7:40 May 20, 2016

## Thunderstorms Knock Out Power to 94,000 Customers in Louisiana May 19

A line of thunderstorms producing heavy rains, high winds, and lightning knocked out power to 94,000 customers in Louisiana late Thursday night. As of 3:00 p.m. EDT Friday, 20,723 customers remained without power. Damaging wind gusts of up to 50 mph were reported, knocking down trees and powerlines. Entergy, the hardest hit utility with 60,000 customer outage, said it was bringing in additional workers to assist crews who have already begun to assess damage and restore service to customers. Entergy estimates full restoration by 6:00 p.m. CDT on Saturday. The table below shows total affected customers and the latest reported outages by utility. The “Affected” column shows the total count of customers that lost power at one point or another over the course of the storm for each utility. These outages may not have occurred concurrently and are not the same as peak outages.

Louisiana Customer Power Outages			
May 19–20, 2016			
Electric Utility	State	Affected	Latest Reported
Entergy	LA	60,000	17,940
Southwest Louisiana Electric Membership Corporation (SLEMCO)	LA	20,000	717
Dixie Electric Membership Corp (DEMCO)	LA	7,000	1,647
Central Louisiana Electric Company (CLECO)	LA	6,000	269
Beauregard Electric Cooperative	LA	1,000	150
<b>TOTAL*</b>		<b>94,000</b>	<b>20,723</b>

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

Sources:

<http://www.etrviewoutage.com/external/la.aspx>

<https://twitter.com/EntergyLA>

<https://www.facebook.com/officialslemcpage/>

<https://www.slemco.com/site.php?pageID=350>

<http://demco.maps.sienatech.com/>

<http://outage.cleco.com/external/default.html>

<http://www.becioutage.org/>

<http://www.ksla.com/story/32021648/severe-weather-causes-damage-to-parts-south-louisiana-assumption-parish-schools-closed>

<http://www.wvl.com/Storms-knock-out-power/22749332>

<http://theadvocate.com/news/15845845-55/tornado-warnings-issued-for-east-baton-rouge-livingston-assumption-st-james-parish-and-ascension-pa>

## Windstorm Knock Out Power to 85,000 Rocky Mountain Power Customers in Utah May 19

Strong winds knocked out power to 85,000 Rocky Mountain Power customers at approximately 10:45 p.m. MDT Thursday night in the Salt Lake City metro area. Crews fully restored power by 2:53 a.m. MDT Friday. Local media reported that the outage caused Tesoro’s Salt Lake City refinery to go into shutdown mode, which made its regular flare stack flames increase in size to burn off excess gas. That outage is covered in today’s petroleum section.

<https://www.rockymountainpower.net/ed/po/uoi.html>

[https://twitter.com/RMP\\_Utah](https://twitter.com/RMP_Utah)

<http://fox13now.com/2016/05/19/more-than-11000-without-power-in-salt-lake-city-magna-and-west-valley-city/>

[http://www.theeagle.com/news/nation/nighttime-power-outage-affects-thousands-in-salt-lake-area/article\\_4012397f-cef8-56d5-93b4-f29a5a5f6397.html](http://www.theeagle.com/news/nation/nighttime-power-outage-affects-thousands-in-salt-lake-area/article_4012397f-cef8-56d5-93b4-f29a5a5f6397.html)

## Update: Dominion’s 1,130 MW Millstone Nuclear Unit 3 in Connecticut at Full Power by May 20

On the morning of May 19 the unit was operating at 75 percent after restarting and ramping up to 20 percent on May 18. The unit was shut on May 15 due to a main generator hydrogen gas leak into the turbine building.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

<http://www.pennenergy.com/articles/pennenergy/2016/05/millstone-reactor-shuts-down-due-to-hydrogen-gas-leak.html>

### **Update: DTE's 1,089 MW Fermi Nuclear Unit 2 in Michigan at Full Power by May 20**

On the morning of May 19 the unit was operating at 80 percent, reduced from full power on May 18.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### **Update: Exelon's 855 MW Quad Cities Nuclear Unit 2 in Illinois at Full Power by May 20**

On the morning of May 19 the unit was operating at 84 percent, reduced from full power on May 18.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### **APS's 1,243 MW Palo Verde Nuclear Unit 1 in Arizona Reduced to 67 Percent by May 20**

On the morning of May 19 the unit was operating at full power.

<http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2016/>

### **Update: AES's 175 MW Alamos Gas-fired Unit 1 in California Returns to Service by May 19**

The unit returned from an unplanned outage that began on May 18.

<http://content.caiso.com/unitstatus/data/unitstatus201605191515.html>

### **Update: AES's 336 MW Alamos Gas-fired Unit 4 in California Returns to Service by May 19**

The unit returned from an unplanned outage that began on May 18.

<http://content.caiso.com/unitstatus/data/unitstatus201605191515.html>

### **Update: AES's 498 MW Alamos Gas-fired Unit 5 in California Returns to Service by May 19**

The unit returned from an unplanned outage that began on May 18.

<http://content.caiso.com/unitstatus/data/unitstatus201605191515.html>

### **Update: AES's 495 MW Alamos Gas-fired Unit 6 in California Returns to Service by May 19**

The unit returned from an unplanned outage that began on May 18.

<http://content.caiso.com/unitstatus/data/unitstatus201605191515.html>

### **Update: Luz Solar Partners' 175 MW Aggregate Solar Units 3-7 in California Return to Service by May 19**

The unit returned from an unplanned outage that began on May 18.

<http://content.caiso.com/unitstatus/data/unitstatus201605191515.html>

### **BHE Renewables' 276 MW Solar Star 2 Solar Unit in California Shut by May 19**

The unit entered an unplanned outage.

<http://content.caiso.com/unitstatus/data/unitstatus201605191515.html>

## ***Petroleum***

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### **PES Reports Operational Upset, Fire at Its 335,000 b/d Philadelphia, Pennsylvania Refinery May 20; Sources Say Reformer Shut**

Philadelphia Energy Solutions' (PES) extinguished a fire on a heating unit associated with a reformer at its Philadelphia, Pennsylvania refinery that two sources said workers were shutting for 10 days of planned work. The company said it experienced an operational upset when a fire broke out in a furnace, but provided no further details. The company was still assessing the damage from the fire, the source said, adding that the reformer was shut, which will result in the loss of production of 35,000 b/d of gasoline and diesel, respectively.

Reuters, 13:07 May 20, 2016

Reuters, 13:18 May 20, 2016

### **Marathon Reports CFHU Leak Isolated at Its 451,000 b/d Galveston Bay, Texas Refinery May 19; FCCU to Be Shuttered June 1 – Sources**

Marathon Petroleum Corp reported a leak and emissions from the “cat feed hydrotreating unit” (CFHU) at its Galveston Bay, Texas refinery on May 19, according to a filing with the Texas Commission on Environmental Quality. The leak was isolated and the unit equipment was de-inventoried, according to sources. On Thursday, sources familiar with plant operations said Marathon plans to begin permanently shutting the 60,000 b/d fluid catalytic cracking unit 1 at the refinery on June 1. For more than a year, the company has been planning to shut the FCCU to fulfill an agreement with U.S. environmental regulators to reduce pollution at the refinery.

Reuters, 14:55 May 19, 2016

Reuters, 17:00 May 19, 2016

### **Tesoro’s 63,000 b/d Salt Lake, Utah Refinery Shut Due to Power Outage May 19**

Tesoro said its Salt Lake, Utah refinery underwent an unplanned shutdown at about 10:30 p.m. MDT Thursday as a result of a power outage. Power was fully restored by 3:30 a.m. MDT Friday.

Reuters, 11:39 May 20, 2016

### **Phillips 66 Reports Emissions at Its 146,000 b/d Borger, Texas Refinery May 19**

Phillips 66 reported emissions from the unit 82 amine treater at its Borger, Texas refinery on May 19, according to a filing with the Texas Commission on Environment Quality.

Reuters, 18:06 May 19, 2016

### **Shell Reports 500 Barrel Crude Release, Shuts Its San Pablo Bay Pipeline in Tracy, California May 20**

Royal Dutch Shell on Friday said it shut down and isolated its San Pablo Bay pipeline in Tracy, California after it noticed very low suction and increased flow rate on the pipeline. A release of approximately 500 barrels of crude oil was confirmed from a segment of 24-inch pipe near the pipeline’s right of way.

Reuters, 10:23 May 20, 2016

### **Energy Transfer Partners Begins Construction on Its 570,000 b/d Dakota Access Pipeline in North Dakota, South Dakota, Illinois**

Energy Transfer Partners said construction was underway on its 1,168-mile, 30-inch Dakota Access Pipeline in North Dakota, South Dakota, and Illinois. The pipeline also will cross Iowa but regulators there declined this week to act quickly on a request to allow Energy Transfer to begin construction in that state, even though the project has been approved by regulators in all four states. The pipeline will carry crude from western North Dakota's Bakken oil fields to the Patoka, Illinois crude distribution hub. The U.S. Army Corps of Engineers still must issue permits for the pipeline to cross the Missouri and Mississippi Rivers. Dakota Access LLC, a unit of Energy Transfer Partners, secured easements from landowners along the route to pass through their property. Dakota Access LLC said last week that it had to start laying pipe this week in order to finish before winter and avoid disturbing farmland for a second growing season.

<http://www.dapipelinefacts.com/>

Reuters, 8:31 May 20, 2016

## **Update: DOT Releases Failure Investigation Report for 2015 Plains All-American Pipeline Spill in Santa Barbara, California May 19**

The U.S. Department of Transportation's (DOT) Pipeline and Hazardous Materials Safety Administration (PHMSA) on Thursday announced it completed its investigation of the May 19, 2015, Plains All-American pipeline release in Santa Barbara County, California. The pipeline ruptured and released an estimated 2,934 barrels of crude oil on land and beaches, and into the Pacific Ocean. PHMSA's investigation focused on the factors that caused the pipeline to fail, and on factors that contributed to the severity of the crude oil release. PHMSA's Failure Investigation Report identifies the direct cause of the failure as external corrosion. The investigation found that several factors contributed to the severity of the release, including the company's failure to protect the pipeline from corrosion, and the company's failure to detect and respond to the pipeline rupture once it occurred. At the time of the release, Plains operated Lines 901 and 903 as interstate pipelines, subject to PHMSA regulatory, inspection, and enforcement jurisdiction. The consequences of the spill were compounded by an oil spill response plan that did not adequately consider a culvert that was installed after the pipeline was constructed. The culvert provided a path between the pipeline and the Pacific Ocean that allowed crude oil to easily flow towards the beach and ocean. Immediately following the incident, PHMSA issued a Corrective Action Order (CAO) that required Plains to shut down Line 901. As the failure investigation progressed, the CAO was amended and PHMSA required Plains to take a number of actions to ensure the safety and integrity of Line 901 and Line 903, including emptying both lines of oil and filling them with inert gas to ensure safety during the investigation and development of a remedial action plan. PHMSA's CAO will be further amended to direct the operator to take additional actions to address the root cause of this incident and any other factors that contributed to the pipeline failure based on the findings of PHMSA's investigation.

<https://www.transportation.gov/briefing-room/usdot-releases-failure-investigation-report-may-2015-plains-all-american-pipeline>

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## ***Natural Gas***

### **Regency Reports Third Party Power Outage at Its 290 MMcf/d Waha Gas Plant in Texas May 19**

Regency reported a third party power outage at its Waha gas plant. Once power was restored, the plant was restarted and the acid gas injector compressor was reset. Intermittent flaring was reported.

<http://www2.tceq.texas.gov/oce/eer/index.cfm?fuseaction=main.getDetails&target=233516>

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## ***Other News***

Nothing to report.

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## ***International News***

### **NNPC Pipeline Attacked in Nigeria May 19**

A pipeline in Nigeria's Niger Delta region operated by the Nigerian National Petroleum Corporation (NNPC), the state energy company, was attacked late on Thursday, a spokesman for a local community group and a witness said on Friday. The pipeline, which connects the Escravos oil terminal to Warri, supplies fuel to different parts of the country. Nigeria has seen a resurgence in militant attacks in the oil-rich southern region in the last few weeks, with strikes on pipelines and oil facilities. A group calling itself the Niger Delta Avengers has claimed responsibility for the majority of attacks.

Reuters, 11:12 May 20, 2016

## Energy Prices

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U.S. Oil and Gas Prices			
May 20, 2016			
	Today	Week Ago	Year Ago
<b>CRUDE OIL</b> <b>West Texas Intermediate U.S.</b> \$/Barrel	47.62	46.17	58.91
<b>NATURAL GAS</b> <b>Henry Hub</b> \$/Million Btu	1.83	2.01	3.07

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>

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