



ENERGY ASSURANCE DAILY

Thursday Evening, April 27, 2017

Electricity

Power Restoration Underway after Strong Storms Hit Central U.S. April 26–27

Strong storms producing heavy rain, high winds, hail, and at least one tornado knocked out power to approximately 49,653 customers in Arkansas, Mississippi, and Oklahoma beginning Wednesday afternoon with impacts lasting into Thursday. Wind gusts up to 75 mph were reported, downing trees and powerlines. As of 3:30 p.m. EDT Thursday, 6,976 customers remained without power. Entergy Arkansas, the hardest hit utility with 29,700 customer outages, said it expects a multi-day restoration effort in the hardest hit areas. The utility said there were at least 45 poles down, 67 spans of conductor down, and 36 broken cross arms in Yell and Pope Counties, Arkansas. The table below shows the latest reported outages by utility.

Central U.S. Customer Power Outages		
April 26–27, 2017		
Electric Utility	State	Latest Reported
Entergy Arkansas	AR	4,796
Indiana Michigan Power	IN	899
Entergy Mississippi	MS	1,219
PSO	OK	62
TOTAL*		6,976

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

Sources:

- <http://www.etrviewoutage.com/external/ar.aspx>
- <https://twitter.com/EntergyArk>
- <https://www.facebook.com/EntergyARK>
- <http://outagemap.indianamichiganpower.com.s3.amazonaws.com/external/default.html>
- http://www.etrviewoutage.com/external/ms.aspx?_ga=2.70786840.941023620.1493304050-765096905.1491234214
- <https://www.psoklahoma.com/outages/>
- <http://m.accuweather.com/en/weather-news/reports-storms-capable-of-spawning-tornadoes-bear-down-on-arkansas/70001503>
- <http://www.wapt.com/article/storms-slam-metro-dropping-hail-trees-power-lines/9569736>
- <http://wane.com/2017/04/26/storms-knock-out-power-to-nearly-5000/>
- <http://www.krmg.com/news/local/nearly-000-pso-customers-affected-power-outage/iQUJ88j6VP4kykjhHvtymN/>

ISO New England Expects Adequate Electricity Supplies This Summer

New England is expected to have the resources needed to meet consumer demand for electricity this summer, according to ISO New England, the operator of the region’s bulk power system and wholesale electricity markets. New England has approximately 29,400 MW of total capacity available with electricity demand for this summer forecast to peak at 26,482 MW, ISO said. Extreme summer weather, such as an extended heat wave of about 94 degrees Fahrenheit, could push demand up to 28,865 MW. Forecast estimates indicate the possibility of a tighter-than-expected margin of supply and reserves because up to 700 MW of expected new resources are delayed and may not be available this summer. Last summer, demand for power peaked on August 12, 2016, at 25,466 MW. The all-time record for peak demand was set on August 2, 2006, when demand reached 28,130 MW after a prolonged heat wave.

https://www.iso-ne.com/static-assets/documents/2017/04/20170426_pr_managing_power_grid_operations_this_summer.pdf

Entergy's 836 MW Arkansas Nuclear Unit 1 in Arkansas Shut April 26

The unit shut from full power due to partial loss of offsite power.

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

<https://www.nrc.gov/reading-rm/doc-collections/event-status/event/2017/20170427en.html>

Petroleum

Anadarko to Shut, Inspect 3,000 Oil, Gas Wells in Colorado after Home Explosion April 17

Anadarko on Wednesday said it was temporarily shutting and inspecting more than 3,000 oil and gas wells in Colorado as a precaution after a house explosion in Firestone killed two people on April 17. While there are still many unknown factors, including the cause of the explosion, Anadarko operates an older, vertical well that was drilled by a previous operator in 1993 and is located approximately 200 feet from where the explosion occurred. Collectively, the wells currently account for total production of about 13,000 barrels of oil equivalent per day or roughly 2 percent of Anadarko's daily oil and gas production. The company said all wells will remain shut-in until field personnel can conduct inspections and testing of the associated equipment, such as facilities and underground lines associated with each wellhead. Depending on the weather, Anadarko expects the process to take two to four weeks.

<http://investors.anadarko.com/2017-04-26-Anadarko-Issues-Statement-Regarding-Colorado-Operations>

Reuters, 13:32 April 27, 2017

BP Restoring CDU Rates at Its 413,500 b/d Whiting, Indiana Refinery after Temporary Cuts to Repair Electrical Substation – Sources

BP Plc on Thursday was restoring production from two 75,000 b/d crude distillation units (CDUs) at its Whiting, Indiana refinery after performing work on an electrical power substation, said sources familiar with plant operations. Production was cut on Pipestills 11A and 11C, on Thursday morning so the work could be performed, the sources said. Production dipped below 90 percent of capacity for a few hours on Thursday, but was expected to be at planned rates on Friday, the sources added.

Reuters, 16:05 April 27, 2017

HollyFrontier Reports Emissions at Its 155,300 b/d Tulsa, Oklahoma Refinery April 20, 21

HollyFrontier reported excess hydrogen sulfide at the east and west plants of its Tulsa, Oklahoma refinery on April 20 and 21, according to an Oklahoma Department of Environmental Quality filing made public on Wednesday.

Reuters, 17:04 April 26, 2017

Update: Motiva Shuts Hydrocracker at Its 603,000 b/d Port Arthur, Texas Refinery to Repair Pipe Leak April 27 – Sources

Motiva Enterprises shut the hydrocracker at its Port Arthur, Texas refinery to repair a leak in a pipe, sources familiar with plant operations said on Thursday. The 105,000 b/d hydrocracking unit 2 (HCU 2) was shut on Wednesday night to repair a leak on a pipe connected to the diesel hydrotreater, the sources said. HCU 2 is expected to be out of production for a short period of time. Energy industry intelligence service Genscape reported low level flaring on Thursday from a flare associated with the hydrocracker.

Reuters, 12:49 April 27, 2017

Shell Reports Leak, Emissions at Its 285,500 b/d Deer Park, Texas Refinery April 26

Royal Dutch Shell on Wednesday afternoon reported a leak was discovered on the weld of a one-inch line at its Deer Park, Texas refinery, according to a Texas Commission on Environmental Quality filing. The company also reported emissions, the filing stated.

Reuters, 13:45 April 27, 2017

Phillips 66 Reports Process Upset, FCCU Emissions at Its 146,000 b/d Borger, Texas Refinery April 27

Phillips 66 reported a process upset and emissions from the fluidic catalytic cracking unit (FCCU) at its Borger, Texas refinery on Thursday. The company said the equipment was restarted.

Reuters, 10:36 April 27, 2017

Marathon Reports Propylene Unit Shut at Its 86,000 b/d Texas City, Texas Refinery April 27

Marathon Petroleum reported the propylene unit was shut at its Texas City, Texas refinery on Thursday, according to a filing with the Texas Commission on Environmental Quality. The unit has not operated properly since it restarted following a recently completed plant-wide turnaround.

Reuters, 1:14 April 27, 2017

BP Discovers Additional 200 Million Barrels of Resources at Its Atlantis Field in the Gulf of Mexico Using Seismic Imaging Technology April 27

BP on Thursday announced a major breakthrough in seismic imaging that has identified more than 200 million barrels of additional resources at its Atlantis field in the deep water Gulf of Mexico. The technology has enabled BP to enhance the clarity of its images collected during seismic surveys, particularly areas previously obscured or distorted by complex salt structures. The sharper seismic images mean that BP can drill new development wells in deep water reservoirs with higher confidence and accuracy. BP now is deploying this technique to fields elsewhere in the Gulf of Mexico as well as in Azerbaijan, Angola, and Trinidad and Tobago.

<http://www.bp.com/en/global/corporate/media/press-releases/bp-takes-leap-forward-in-seismic-imaging-technology.html>

Natural Gas

Enbridge Reports Electrical Malfunction at Its Tilden Gas Plant in Texas April 25

Enbridge reported its Tilden plant shut due to an electrical malfunction that caused the acid gas injector (AGI) compressors to fault. The malfunction was caused by moisture on electrical wires leading to a transformer. Enbridge reported that gas flow and processing were being managed to minimize the down time.

<http://www2.tceq.texas.gov/oce/ee/index.cfm?fuseaction=main.getDetails&target=256961>

Other News

Nothing to report.

International News

Update: Libya's Sharara Oilfield Restarts, Force Majeure Lifted April 27 – NOC Chairman

Libya's Sharara oilfield restarted on Thursday after a protest at the facilities ended, and force majeure on exports of the grade from the Zawiya terminal was lifted, according to the NOC chairman. According to the NOC, production from Sharara would soon reach 200,000 b/d. Total Libyan crude production stood at 491,000 b/d on Thursday with a target of around 1.1 million b/d by August.

Reuters, 10:52 April 27, 2017

Colombia's Ecopetrol Halts Its 210,000 b/d Cano-Limon Covenas Pipeline after Attack April 27

Ecopetrol, Colombia's state oil company, on Thursday morning said a bomb attack caused an oil spill and halted the flow of crude along the 485-mile Cano-Limon Covenas pipeline. The attack did not affect production at the Cano Limon field, operated by Occidental Petroleum Corp, nor crude exports. Staff were working to clean up the spill, Ecopetrol said. The Cano-Limon pipeline has suffered 31 attacks this year so far and was halted for 46 days in March and April because of bombings.

Reuters, 11:20 April 27, 2017

Energy Prices

U.S. Oil and Gas Prices			
April 27, 2017			
	Today	Week Ago	Year Ago
CRUDE OIL West Texas Intermediate U.S. \$/Barrel	48.96	50.26	45.24
NATURAL GAS Henry Hub \$/Million Btu	3.02	3.12	1.88

Source: Reuters

Links

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

<https://www.eia.gov/petroleum/weekly/>

Updated every Wednesday.

Weekly Petroleum Status Report from EIA

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

<https://www.eia.gov/naturalgas/weekly/>

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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