ENERGY ASSURANCE DAILY

Friday Evening, April 07, 2017

Major Developments

Power Restoration Underway after Windstorm Hits Northwest April 6–7

A powerful windstorm producing gusts up to 70 mph knocked out power to approximately 421,400 customers across Northern California, Oregon, and Washington overnight Thursday into Friday. As of 3:30 p.m. EDT Friday, 248,481 customers remained without power. Utilities across the region reported high winds downing trees and powerlines caused the majority of outages. Portland General Electric, the hardest hit utility with 168,000 customers without power in Oregon, said on Friday afternoon it was unable to provide restoration estimates due to the volume of outages. The utility said it had all available crews responding and would continue working through the weekend to restore power. Pacific Gas and Electric, which reported 114,000 customer outages, said crews were working to get as many people restored to full power by the end of Friday. The table below shows the latest reported outages by utility.

Northwest Customer Power Outages
April 6–7, 2017

Electric Utility	State	Latest Reported
Pacific Gas and Electric	CA	33,538
Portland General Electric	OR	156,495
Pacific Power	CA/OR	27,501
Clark Public Utilities	OR	3,298
Emerald People's Utility District	OR	3,000
Eugene Water & Electric Board	OR	4,800
Puget Sound Energy	WA	19,849
TOTAL*		**248,481**

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

Sources:
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Update: Power Restoration Ongoing after Series of Strong Storms Hit Midwest U.S., Ontario April 5–7

A series of strong storms producing wet snow, high winds, and heavy rain knocked out power to approximately 202,300 customers in Michigan, Ohio, and southern Ontario beginning overnight Wednesday with impacts lasting into Friday. Wind gusts of up to 50 mph were reported. As of 3:30 p.m. EDT Friday, 77,059 customers remained without power. DTE, the hardest hit utility with 80,000 customer outages, said it did not have a restoration timeline on Friday but expects to have one available Saturday morning. The utility said outages were scattered across the region, with the majority of outages north of M-69 in the Thumb area. Hydro One, which reported 56,000 customer outages, said it expected to restore the majority of outages by Saturday night. The table below shows the latest reported outages by utility.

Midwest U.S., Ontario Customer Power Outages
April 5–7, 2017

Electric Utility	State	Latest Reported
Consumers Energy	MI	4,639
DTE	MI	28,854
FirstEnergy Ohio	OH	828
DP&L	OH	0
AEP Ohio	OH	815
Hydro One	Ontario	41,923
TOTAL*		**77,059**

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

Sources:
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https://www.dpandl.com/customer-service/outage-center/outage-map/
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http://www.mlive.com/news/index.ssf/2017/04/power_outage_update.html
http://toronto.ctvnews.ca/thousands-without-power-north-of-the-city-1.3358777

Update: Power Restoration Nearly Complete after Severe Thunderstorms Hit Southeast April 5–7

Power restoration was continuing on Friday after severe thunderstorms producing high winds and baseball-sized hail knocked out power to approximately 199,581 customers across the Southeast beginning Wednesday with impacts lasting into Thursday. Wind gusts of up to 70 mph were reported, downing powerlines and power poles. As of 3:30 p.m. EDT Friday, 5,467 customers remained without power. Dominion Power, which reported 40,124 customer outages in Virginia, said significant restoration progress was made Thursday afternoon and overnight as crews responded to over 1,000 work locations. The utility said crews on Friday were sent to the hardest hit areas to expedite restoration. The table below shows the latest reported outages by utility.

Southeast Customer Power Outages
April 5–7, 2017

Electric Utility	State	Latest Reported
Alabama Power	AL	470
Duke Energy Florida	FL	28
TECO Energy	FL	29
Georgia Power	GA	1,656
Georgia EMC	GA	0
Pepco	DC/MD	29
Duke Energy North Carolina	NC	1,405
Duke Energy South Carolina	SC	174

KUB	TN	169
Dominion Power	VA	695
Rappahannock Electric Cooperative	VA	566
Northern Virginia Electric Cooperative	VA	246
TOTAL*		**5,467**

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

Sources:
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TVA's 1,118 MW Browns Ferry Nuclear Unit 3 in Alabama Reduced to 90 Percent by April 7

On the morning of April 6, the unit was operating at full power.
http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2017/

FirstEnergy's 1,235 MW Perry Nuclear Unit 1 in Ohio Reduced to 80 Percent by April 7

On the morning of April 6, the unit was operating at full power.
http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2017/

Petroleum

ExxonMobil Shuts HCU at Its 344,600 b/d Beaumont, Texas Refinery April 7 – Sources

ExxonMobil Corp. on Friday shut the hydrocracking unit (HCU) at its Beaumont refinery, according to sources familiar with plant operations. The sources said the expected duration of the 65,000 b/d HCU outage was unknown. ExxonMobil did not provide the cause of the outage.
Reuters, 13:46 April 7, 2017

Update: LyondellBasell Says FCCU Restart at Its 263,776 b/d Houston, Texas Refinery Remains on Schedule

LyondellBassel Industries said the 90,000 b/d fluidic catalytic cracking unit (FCCU) was on schedule to return to production early next week. The FCCU was shut earlier this year for a planned six-week overhaul. However, a fire in a cooling tower on March 15 extended the outage. The FCCU began restarting on Monday.
Reuters, 18:52 April 6, 2017

Phillips 66 Reports Flaring at Its 120,200 b/d Rodeo, California Refinery March 31

Phillips 66 reported flaring at its Rodeo refinery on March 31, according to a filing with Contra Costa Health Services.
Reuters, 19:58 April 6, 2017

Coast Guard Closes Section of Ohio River after Vessel Carrying Gasoline Takes on Water April 6

The Coast Guard on Thursday reported the UTV Mike A. Nadicksbernd took on water at Lock and Dam 52 on the Ohio River. The Coast Guard closed the waterway from mile marker 937 to mile marker 941, and said that the queue is nine vessels up-bound and six vessels down-bound. The vessel, owned by American Commercial Barge Line, had approximately 47,000 gallons of diesel on board, but there were no reports of a spill or injuries from the incident. The Coast Guard was investigating the cause of the incident.
Reuters, 19:29 April 6, 2017

U.S. Oil Rig Count Increases to 672 April 7 – Baker Hughes

U.S. drillers added 10 oil rigs in the week to April 7, bringing the total count up to 672, the most since August 2015, energy services firm Baker Hughes said on Friday. The rig count was at 354 one year ago.
Reuters, 13:04 April 7, 2017

Natural Gas

FERC Issues Final Environmental Impact Statement for 1 Bcf/d PennEast Pipeline in Pennsylvania April 7

The Federal Energy Regulatory Commission (FERC) on Friday issued a Final Environmental Impact Statement (EIS) for the 120-mile, 36-inch diameter PennEast Pipeline after nearly three years of scientific review studying the impacts of an underground pipeline on the environment. The EIS is the last major federal regulatory hurdle for the PennEast Pipeline prior to an anticipated favorable order from FERC Commissioners that would result in approval of the pipeline. The Pennsylvania Department of Environmental Protection validated the pipeline in February when it issued a Water Quality Certification. The PennEast Pipeline is a consortium of companies made up of New Jersey Resources, PSEG, SJI Midstream, Southern Company Gas, Spectra Energy Partners, and UGI Services.
http://penneastpipeline.com/final-eis-statement/

U.S. Natural Gas Rig Count Increases to 165 April 7 – Baker Hughes

The number of rigs drilling for natural gas in the U.S. rose by 5 this week to 165, data from oil services firm Baker Hughes showed on Friday.
Reuters, 13:00 April 7, 2017

Other News

Nothing to report.

International News

Nothing to report.

Energy Prices

U.S. Oil and Gas Prices April 7, 2017			
	Today	**Week Ago**	**Year Ago**
CRUDE OIL **West Texas Intermediate U.S.** $/Barrel	52.10	50.49	37.25
NATURAL GAS **Henry Hub** $/Million Btu	3.23	3.07	1.86

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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