

Office of Electricity Delivery and Energy Reliability

Infrastructure Security and Energy Restoration

ENERGY ASSURANCE DAILY

Wednesday Evening, April 27, 2011

Major Developments

Storms Kill at Least 10 People, Knock Out Power to More than 944,000 Customers across South-Central/Southeastern United States April 25-27

Severe storms and possible tornadoes continued to blast the south-central and southeastern United States on April 27, killing at least 10 people and knocking out power to more than 944,000 customers across several states, multiple news and company sources reported. Tornado watches remained in effect for parts of Arkansas, Louisiana, and Mississippi, as of latest reports. Multiple states reported outages, but the following table lists only those states where 10,000 or more customers lost electricity, based on available data.

South-Central/Southeastern U.S. Customer Power Outages April 25 – 27, 2011				
Electric Utility	State	Peak	Latest Reported	
Alabama Power	AL	270,000	203,000	
Huntsville Utilities	AL	60,000	60,000	
Sand Mountain Electric Cooperative	AL	16,000*	16,000	
Cullman Electric Cooperative	AL	13,000	13,000	
Athens Utilities	AL	10,000	5,000	
Marshall-DeKalb Electric Cooperative	AL	9,500	8,000	
Albertville Municipal Utilities Board	AL	8,000	6,500	
Joe Wheeler EMC	AL	1,400	1,400	
Entergy	AR	88,020	42,759	
First Electric Cooperative	AR	28,000	9,638	
Carroll Electric	AR	7,000	2	
Craighead Electric	AR	1,000	250	
EPB	TN	74,000	74,000	
Memphis Light, Gas, and Water	TN	45,000	9,725	
Knoxville Utilities Board	TN	44,231	2,503	
Clarksville Department of Electricity	TN	30,000	1,200	
Murfreesboro Electric Department	TN	13,500	5,000	
Southwest Tennessee Electric	TN	12,240	4,787	
Jackson Energy Authority	TN	12,000	900	
Gibson Electric Membership Corporation	TN	10,000	550	
Paris Board of Public Utilities	TN	10,000	5,000	
Cumberland Electric	TN	4,800	721	
Duck River EMC	TN	1,000	1,000	
Entergy	LA	55,000	29,523	
SWEPCO	LA/AR/TX	33,300	9,190	
Beauregard Electric	LA	7,800	0	
Entergy	MS	36,000	21,868	
Georgia Power	GA	27,000	23,300	
North Georgia EMC	GA	7,200	7,200	
Oncor	TX	10,000	3,726	
TOTAL*		944,991	565,742	

^{* &}quot;At least half" of company's customers lost power, news source said. Company has 30,552 customers, according to its website.

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

Sources:

http://www.cnn.com/2011/US/04/27/severe.weather/index.html?hpt=T1

Alabama Power: http://twitter.com/#!/alabamapower,

http://www.annistonstar.com/view/full story/12943272/article-Storms-fell-trees--power-lines--schools-calling-off-

classes?instance=home lead story

Huntsville Utilities: http://www.madisoncountyrecord.com/2011/04/27/huntsville-utilities-say-60000-customers-are-

without-power-will-be-a-%E2%80%98multiple-day-recovery-effort%E2%80%99/

Sand Mountain Electric Cooperative: http://times-journal.com/news/article 46a2edfc-70e3-11e0-af36-

001cc4c03286.html, http://www.smec.coop/

Cullman Electric Cooperative: http://twitter.com/#!/cullmanec,

http://www.cullmantimes.com/local/x641329354/13-00-without-power-across-Cullman-County

Athens Utilities: http://enewscourier.com/homepage/x1250115648/Widespread-damage-reported-locally

Marshall-DeKalb Electric Cooperative:

http://www.gadsdentimes.com/article/20110427/NEWS/110429795/1016/NEWS?Title=Widespread-damage-

causes-outages-in-Marshall-County-&tc=ar

Albertville Municipal Utilities Board: http://www.sandmountainreporter.com/news/local/article c26a1362-70e7-

11e0-858f-001cc4c03286.html, http://www.gadsdentimes.com/article/20110427/NEWS/110429784?Title=Three-rescrible towardeds reported in Marchell County, 845-27

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Joe Wheeler EMC: http://www.decaturdaily.com/stories/Power-outage-storm-damage-in-Lawrence,78775

Entergy (Arkansas): http://viewoutage.entergy.com/ar.aspx,

http://www.entergy.com/News_Room/newsrelease.aspx?NR_ID=2121

First Electric Cooperative: https://ebill.firstelectric.coop/outage/, http://www.firstelectric.coop/pdfs/FECC Outage

Release April 27 2011 - 9 a m.pdf

Carroll Electric: http://www.outageentry.com/dvosm/dvOSM2.php?Client=cecar,

http://www.digitaljournal.com/article/305987

Craighead Electric: http://www.craigheadelectric.coop/content/severe-storms-knock-out-power

EPB: http://twitter.com/#!/EPB Chattanooga,

http://www.wdef.com/news/epb_update_65_000_homes_and_businesses_without_power/04/2011

Memphis Light, Gas and Water: http://azimuth.mlgw.org/OutageSummary.php,

http://www.commercialappeal.com/news/2011/apr/27/more-storms-headed-memphis-area-tries-recover-1800/

Knoxville Utilities Board: http://www.kgis.org/website/kub_outage/mainpage.htm,

http://www.knoxnews.com/news/2011/apr/26/knoxville-thousands-without-power-after-storm/

Clarksville Department of Electricity: http://www.clarksvillede.com/Storm 4262011.html,

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across-Montgomery-County?odyssey=tab|topnews|text|FRONTPAGE

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26938, http://www.dnj.com/article/20110427/NEWS01/110427023

Southwest Tennessee Electric: http://stemconline.com/2011/04/26/outage-update-1130-a-m/,

http://stemconline.com/2011/04/27/outage-update-1130-a-m-42711/

http://www.jacksonsun.com/article/20110426/NEWS01/110426016/Southwest-Tennessee-Electric-reports-almost-

4-000-homes-regain-power?odyssey=tab|topnews|text|FRONTPAGE

Jackson Energy Authority: http://www.jacksonsun.com/article/20110426/NEWS01/110426014,

http://www.jacksonsun.com/article/20110426/NEWS01/110426031/About-3-000-JEA-customers-still-without-power?advssay=tabltoppays/text/IEPONTPAGE

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 $\underline{\text{http://www.jacksonsun.com/article/20110427/NEWS01/110427005/1002/Highway-70-West-flooded-power-outage-updates-reported}$

Gibson Electric Membership Corporation:

http://www.jacksonsun.com/article/20110426/NEWS01/110426030/About-1-400-Gibson-Electric-customers-

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extended-outage-expected?odyssey=tab|topnews|text|FRONTPAGE

Paris Board of Public Utilities:

http://www.parispi.net/articles/2011/04/26/news/local_news/doc4db6f9b24d373596215408.txt,

http://www.parispi.net/articles/2011/04/27/news/local_news/doc4db8473d0a011667818039.txt

Cumberland Electric: http://www.theleafchronicle.com/article/20110426/MAJOREVENT/110426003/CDE-

Electric-restored-most-customers-under-4-000-still-lack-power

Duck River EMC: http://www.c-dh.net/articles/2011/04/27/top stories/0001localstorm.txt

Entergy (Louisiana): http://viewoutage.entergy.com/la.aspx,

http://www.thenewsstar.com/article/20110427/UPDATES01/110427008

SWEPCO: https://www.swepco.com/outages/details.aspx?stormName=April%2025-27%20Ark-La-Tex%20Storms

 $Beauregard\ Electric:\ \underline{http://outage.beci.org/MilsoftOutageWeb/}\ ,\ \underline{http://www.kplctv.com/story/14515120/thousands-lectric}\ .$

without-power-after-overnight-storms

Entergy (Mississippi): http://www.wapt.com/r/27686401/detail.html Georgia Power: http://twitter.com/#!/georgiapower, http://twitter.com/#!/georgiapower, http://twitter.com/#!/georgiapower, http://twitter.com/#!/georgiapower, http://twitter.com/mes/atlanta-weather-minute-by-

926660.html?cxtype=rss news

North Georgia EMC: http://www.ngemc.com/

Oncor: https://maps.oncor.com/summary.asp , http://www.cbs19.tv/story/14519658/tornadoes-touching-down-

across-east-texas

Electricity

Voltage Fluctuations Knock Offline Calpine's 400 MW Power Plant in Texas City, Texas April 27 - Electric Arc Flash Leaves One Worker Injured

Voltage fluctuations caused the plant to shut this morning, a Calpine spokeswoman said. An electric arc flash occurred as the plant shut, leaving one worker injured.

http://www.reuters.com/article/2011/04/27/bp-texascity-idUSN2715347420110427

Update: Calpine's 751 MW Pastoria Gas-Fired Unit in California Ramps up by April 26

According to the California Independent System Operator, the unit reported a return from an unplanned curtailment of 521 MW.

http://www.caiso.com/unitstatus/data/unitstatus201104261515.html

AES's 227 MW Huntington Beach Gas-Fired Unit 4 in California Returns to Service by April 26

According to the California Independent System Operator, the unit reported a return from an unplanned outage. http://www.caiso.com/unitstatus/data/unitstatus201104261515.html

Martinez Refining Co.'s 100 MW Gas-Fired Unit in California Shut by April 26

According to the California Independent System Operator, the unit reported an unplanned outage by April 26. http://www.caiso.com/unitstatus/data/unitstatus201104261515.html

Exelon's 1,111 MW La Salle Nuclear Unit 2 in Illinois Reduced to 80 Percent by April 27

The Nuclear Regulatory Commission reported that on the morning of April 26 the unit was operating at full power. Information derived from the NRC Power Reactor Status Reports:

http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/

Constellation's 565 MW Nine Mile Point Nuclear Unit 1 in New York Reduced to 46 Percent by April 27

The Nuclear Regulatory Commission reported that on the morning of April 26 the unit was operating at 78 percent. Information derived from the NRC Power Reactor Status Reports:

http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/

Update: Entergy's 510 MW Vermont Yankee Nuclear Unit in Vermont at Full Power by April 27

The Nuclear Regulatory Commission reported that on the morning of April 26 the unit was operating at 76 percent. Information derived from the NRC Power Reactor Status Reports:

http://www.nrc.gov/reading-rm/doc-collections/event-status/reactor-status/2011/

Tucson Electric Power Plans 500 kV, 50-Mile Transmission Line in Pinal County, Arizona

The line would run from the planned Pinal central substation east of Casa Grande to Tucson Electric Power's Tortolita Substation southeast of Red Rock, the company said on April 26. Construction is expected to begin in the summer of 2013 and conclude in May 2014.

http://ir.uns.com/releasedetail.cfm?ReleaseID=571922

NRC Investigating Radiation Spike in Work Area at FirstEnergy's 1,268 MW Nuclear Power Plant in Ohio April 25

The U.S. Nuclear Regulatory Commission (NRC) launched a Special Inspection on April 25 to review the circumstances around work activities that led to higher-than-expected radiation levels in a work area at the Perry facility last week, the agency said in a release. The spike occurred on April 22 as the company worked to remove a source range monitor from the reactor core. During the work, plant personnel identified an increase in radiation levels in their work area. The workers stopped and immediately left the area. FirstEnergy does not believe that the workers received radiation in excess of NRC limits. The incident did not impact plant workers or members of the public.

http://pbadupws.nrc.gov/docs/ML1111/ML111160613.pdf

Petroleum

Update: Power Issues Postpone BP's Plans to Resume Operations at 475,000 b/d Texas City, Texas Refinery – Power Outage Forced Shut Facility on April 25-26

BP expected to restart multiple units at its 475,000 b/d Texas City, Texas refinery between April 26 and May 5, it said in filings with state regulators, but continued power issues were postponing the company's plans on April 27, according to sources familiar with the facility's operations. A power outage forced shut the entire facility on April 25-26. The company was waiting for "a stable, redundant power supply" on April 27, Reuters said, citing the sources familiar with the situation. Power outages also forced shut Valero's 214,000 b/d Texas City refinery and disrupted operations at Marathon's 76,000 b/d Texas City refinery. Operators had begun restarting units at those facilities by April 26. Those efforts continued, as of latest reports.

http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153785

http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153795

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http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153754

 $\frac{http://www.bloomberg.com/news/2011-04-27/bp-to-resume-gasoline-unit-operations-at-texas-city-oil-refinery.html}{http://www.reuters.com/article/2011/04/27/bp-texascity-idUSN2715347420110427}$

Power Disruption Briefly Shuts SRUs at ConocoPhillips' 247,000 b/d Sweeny, Texas Refinery April 26

A power disruption "caused by a broken power pole" at a third-party substation temporarily forced shut two sulfur recovery units (SRUs) at ConocoPhillips' Sweeny refinery on April 26, the company said in a filing with state regulators. The incident triggered flaring. Power was restored within hours and the company resumed operations, according to the filing.

http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153768

Exchanger Leak Causes Release at ExxonMobil's 192,500 b/d Chalmette, Louisiana Refinery by April 27

ExxonMobil planned to shut a unit to fix a cooling exchanger leak, according to a regulatory filing. It was not clear if the incident had any impact on production.

Reuters, 00:32 April 27, 2011

Update: Tesoro Resumes Normal Rates at 93,500 b/d Kapolei, Hawaii Refinery by April 26

Tesoro restarted a sulfur recovery unit (SRU) and returned the facility to normal rates by April 26, the company said. It was not clear when the shutdown occurred, but the company said the incident had not impacted its ability to satisfy supply agreements.

Reuters, 12:35 April 26, 2011

Reuters, 00:16 April 26, 2011

Update: Kinder Morgan Postpones Plans to Restart 300,000 b/d, 715-Mile, Alberta-to-British Columbia and U.S. Northwest Trans Mountain Oil-and-Oil Product Pipeline April 26-27

Kinder Morgan Energy Partners LP postponed a plan to restart the pipeline on April 26, saying it needed to perform additional assessments and repairs along a section of the line. The company shut the line on April 22 after discovering a small "product seep." Workers excavated the leak site and discovered no visible oil, sources said previously. The line remained out of service, as of latest reports. The Trans Mountain pipeline delivers crude oil and oil products from Edmonton, Alberta to British Columbia, according to the company's website. It transports crude oil and condensates to multiple refineries in the northwestern United States.

 $\frac{http://www.google.com/hostednews/canadianpress/article/ALeqM5iKmUK0yvDydLjaLqto-N0h4AaXxg?docId=6679849$

http://af.reuters.com/article/energyOilNews/idAFN2627020620110426

http://www.edmontonjournal.com/Trans+Mountain+pipeline+restart+Tuesday/4676545/story.html

http://online.wsj.com/article/SB10001424052748704132204576284951013449130.html

http://www.kindermorgan.com/business/canada/transmountain.cfm

http://www.vancouversun.com/Kinder+Morgan+shuts+down+Trans+Mountain+pipeline+possible+leak/4671098/st orv.html

Reuters, 11:46 April 25, 2011 DJN, 11:14 April 25, 2011

U.S. Crude Oil Inventories Surge 6.16 Million Barrels in Week Ended April 22, EIA Reports – Analysts Had Expected 1.7 Million Barrel Gain

U.S. crude oil inventories surged 6.16 million barrels to a total 363.1 million in the week ended April 22, the Energy Information Administration (EIA) said on April 27, more than tripling analysts' expectations of a 1.7 million barrel increase. Gasoline inventories dropped 2.51 million barrels to a total 205.59 million barrels, according to the EIA. Analysts had projected a 1 million barrel drop. The 205.59 million barrel total marked the lowest such level since August 2009, according to Reuters.

http://www.bloomberg.com/news/2011-04-27/gasoline-fluctuates-after-energy-department-inventory-report.html http://eia.doe.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html Reuters, 10:38 April 27, 2011

Artificially-Low Prices to Blame as Parts of Russia Experience Gasoline Shortages – Producers Exporting Gasoline to Countries with Higher Prices

http://online.wsj.com/article/SB10001424052748704099704576289054276246180.html

Natural Gas

Nothing to report.

Other News

Turkey Plans Canal That Would Link Black Sea to Mediterranean, Ease Traffic along Bosphorous Strait

Turkey plans to construct a 28-to-31-mile, 82-foot-deep canal that would link the Black Sea to the Mediterranean Sea and ease traffic along the parallel-running Bosphorous Strait, the nation's Prime Minister said on April 27. He said it would take two years to finish a study of the terrain.

http://www.downstreamtoday.com/news/article.aspx?a id=26452

EIA Releases Annual Energy Outlook 2011 April 26

The U.S. Energy Information Administration (EIA) yesterday released the complete version of its Annual Energy Outlook 2011 (AEO2011). Key results included:

- The United States is expected to rely less on imported fuels due to increased domestic production including biofuels and greater fuel efficiency. Total U.S. consumption of liquid fuels, including both fossil fuels and biofuels, is projected to rise from about 18.8 million b/d in 2009 to 21.9 million b/d in 2035, according to EIA's Reference case. The import share, however, which reached 60 percent in 2005 and 2006 before falling to 51 percent in 2009, is forecast to slide to 42 percent in 2035.
- Shale gas production is expected to grow almost fourfold from 2009 to 2035, according to EIA's Reference
 Case. In 2035, shale gas is projected to account for 47 percent of total U.S. production, compared to 16
 percent in 2009.
- Proposed environmental regulations could alter the power generation fuel mix. Because the rules have not been finalized, the EIA did not include their impacts in the Reference case. However, the EIA did include several alternative cases examining the sensitivity of power generation markets to various assumed requirements for environmental retrofits. The range of coal plant retirements varies considerably across the cases, with a low of 9 GW (3 percent of the coal fleet) in the Reference case and a high of 73 GW (over 20 percent of the coal fleet) in the most extreme case.

http://www.eia.gov/pressroom/releases/press361.cfm

Energy Prices

U.S. Oil and Gas Prices April 27, 2011				
	Today	Week Ago	Year Ago	
CRUDE OIL West Texas Intermediate U.S. \$/Barrel	112.04	110.71	82.43	
NATURAL GAS Henry Hub \$/Million Btu	4.32	4.19	4.18	

Source: Reuters

Energy Notes

Severe Weather Knocks Out Power to at Least 15,000 FirstEnergy Customers in Ohio April 27

http://www.woio.com/Global/story.asp?S=14525420

Dry Weather Causes Salt to Build up on Power Lines, Knocks Out Power to nearly 13,000 CenterPoint Energy Customers in Texas April 27

http://www.chron.com/disp/story.mpl/ap/tx/7539078.html

Equipment Failure Cuts Power to about 12,000 PG&E Customers in Oilsdale, California April 26

http://www.bakersfieldnow.com/news/local/120721029.html

IPL Replacing Cable after Manhole Explosion in Indianapolis, Indiana April 27 http://www.wibc.com/news/Story.aspx?ID=1408653

Lea County Electric Cooperative, Wartsila Break Ground on Proposed 46.7 MW Gas-Fired Power Plant in Lovington, New Mexico April 26 – Facility to Enter Service by June 2012

http://www.prnewswire.com/news-releases/ground-breaking-of-new-lcec-power-plant-in-new-mexico-supplied-bywartsila-120705589.html

Lincoln Renewable Energy to Complete 10 MW New Jersey Oak Solar Project in Fairfield Township, New Jersey in 2011

http://www.prnewswire.com/news-releases/lincoln-renewable-energy-signs-41-million-project-finance-deal-for-new-jersey-solar-project-120772069.html

Japanese Nuclear Disaster Will Cause "Slight Decrease" in Scope of U.S. Nuclear Expansion: EIA Official

Reuters, 16:31 April 26, 2011

Update: Provincial Regulators Okay Cenovus Energy's Plans to Expand Capacity by 120,000 b/d (in Three 40,000 b/d Phases) at Christina Lake Oil Sands Operation in Alberta, Canada – Company to Open First Phase in 2014, Second Phase in 2016, and Third Phase in 2017, Boosting Site's Production to 218,000 b/d

http://www.cenovus.com/news/news-releases/2011/0426-Cenovus-receives-approval-expand-christina-lake.html

PG&E Says its Records Incorrectly Identified 34 Miles of Natural Gas Pipelines as Seamless in Urban California

http://www.sfgate.com/cgi-bin/article.cgi?f=/c/a/2011/04/26/MNCT1J3VOI.DTL

Shell's Natural Gas Production to Exceed Oil Output by 2012: Company President http://imarketnews.com/node/29913

SRU Shutdown Triggers Emissions Event at Goldsmith Gas Plant in Texas April 26-27 http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153764

Lightning Strike Suspected to Blame for Electrical Short, SRU Shutdown at Teague Gas Plant in Texas April 26

http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153779 http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153778

Enterprise Products Isolates Valve after Failure along Natural Gas Pipeline in La Salle County, Texas April 26-27

http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153771

Wind Storm Leads to Power Outage, Briefly Shutting Acid Gas Compressor at Sand Hills Gas Plant in Texas April 26

http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153809

External Corrosion Causes Leak along Southern Union's 20-Inch Natural Gas Pipeline in Pecos County, Texas April 26-27

http://www11.tceq.state.tx.us/oce/eer/index.cfm?fuseaction=main.getDetails&target=153803

Bomb Attack Forces Shut Gasco-Controlled Pipeline that Delivers Natural Gas from Egypt to Israel and Jordan April 27

 $\frac{http://www.google.com/hostednews/afp/article/ALeqM5irZiBQ5KBVbQFVpnWrxL127wqbPQ?docId=CNG.e8e90}{619ea9f57952ae0e6582e01ea81.981}$

MSHA Authorizes Peabody Energy to Restart Longwall Production at Twentymile Coal Mine in Colorado, Company Says on April 26 – Site "Encountered Unforeseen Geologic Conditions" Earlier in April 2011

http://phx.corporate-ir.net/phoenix.zhtml?c=129849&p=irol-newsArticle&ID=1554914&highlight=http://www.bizjournals.com/stlouis/news/2011/04/26/peabody-to-restart-ops-at-colorado-mine.html

Links

This Week in Petroleum from the Energy Information Administration (EIA) http://tonto.eia.doe.gov/oog/info/twip/twip.asp Updated every Wednesday.

Weekly Petroleum Status Report from EIA

http://www.eia.doe.gov/oil_gas/petroleum/data_publications/weekly_petroleum_status_report/wpsr.html Updated after 10:30 AM & 1:00 PM EST every Wednesday.

Natural Gas Weekly Update from EIA

http://tonto.eia.doe.gov/oog/info/ngw/ngupdate.asp Updated after 2:00 PM EST every Thursday.

ENERGY ASSURANCE DAILY

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

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