POWER OUTAGE REPORTER

September 2017



OVERVIEW

Power disruptions can occur anywhere, for a variety of reasons.

Listed here are some of the recent disruptions.

Remember, though most of the publicly reported events tend to happen outside of an organization's facility, there are many unreported problems happening every day inside a building.

Vertiv™ designs, builds and services critical infrastructure that enables vital applications for data centers, communication networks and commercial and industrial facilities. Formerly Emerson Network Power, Vertiv supports today's growing mobile and cloud computing markets with a portfolio of power, thermal and infrastructure management solutions including the ASCO®, Chloride®, Liebert®, NetSure™ and *Trellis*™ brands.

Contact us at VertivCo.com

Want to know more about the cost of downtime? Read this paper from the Ponemon Institute



9/1/2017 Southeast 20,000+ Harvey 9/1/2017 Hazeltown, PA 3,258 Crash into utility pole 9/3/2017 Affinaton, MA Part of town Fire on utility pole 9/3/2017 Toledo, OH 8,000 Storm 9/5/2017 Cortez, CO Neighborhood Microburst wind 9/5/2017 Cartaz, CO Neighborhood Microburst wind 9/5/2017 Utah County 18,000 Weather 9/5/2017 Utah County 18,000 Weather 9/5/2017 Key West, IA Part of town Runaway semi-truck hits pole 9/5/2017 Fishers Island, CT 250 Transformer fire 9/5/2017 Entertal Maine 11,000 Storm 9/5/2017 Manchester, NH 1,800 Transformer failure 9/7/2017 Reverly, MA Stuck in elevator Tree fails on line 9/9/2017 No Kohala, HI Area wide Planned Planned 9/9/2017 Florida 6,300,000 Irma 9/9/2017 South Carolina 270,000 Irma 9/9/2017 South Carolina 270,000 Irma 9/9/2017 North Carolina 270,000 Irma 9/9/2017 North Carolina 75,000 Irma 9/9/2017 Alabama 23,000 Irma 9/9/2017 Alabama 23,000 Irma 9/9/2017 Santa Monica, CA 3,600 Backhoe cuts line 9/1/2017 Santa Monica, CA 3,600 Backhoe cuts line 9/1/2017 Cathlamet, OR Localized Truck accident 7/1/2017 Cathlamet, OR Localized Truck accident 9/1/2017 Cathlamet, OR Localized Equipment failure 9/1/2017 Springfield, MO 10,000 Substation fire 9/1/2017 Mycst Palm Bach, El School closed Equipment f	DATE	ADEA	IMPACT	DEACON
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9/9/2017			Area wide	
9/9/2017	9/9/2017	<u>Florida</u>	6,300,000	Irma
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9/9/2017	9/9/2017	South Carolina	270,000	
9/9/2017	9/9/2017	North Carolina	75,000	Irma
9/11/2017 Santa Monica, CA 3,600 Backhoe cuts line 9/12/2017 Jamestown, ND 2,772 Truck accident 9/12/2017 Cathlamet, OR Localized Truck accident 9/12/2017 Nampa, ID 1,150 Truck accident 9/13/2017 Kirksville, MO 650 Racoon chews wire 9/13/2017 Western, AK 4 towns Equipment failure 9/14/2017 Reno, NV 4,400 Equipment failure 9/14/2017 Carson, NV School closed Equipment failure 9/14/2017 Central Maine 2,770 Substation failure 9/14/2017 Tulsa, OK 10,000 Equipment failure 9/14/2017 Little Rock, AR 58 Tree falls on line 9/14/2017 Little Rock, AR 58 Tree falls on line 9/15/2017 Edwardsville, IL Criminal Justice Ctr Utility service failure 9/15/2017 Springfield, MO 10,000 Substation fire 9/16/2017 Missolula, MT >200 Snow on trees	9/9/2017	<u>Alabama</u>	23,000	Irma
9/12/2017	9/9/2017	Puerto Rico	1,300,000	Irma
9/12/2017	9/11/2017	Santa Monica, CA	3,600	Backhoe cuts line
9/12/2017	9/12/2017	Jamestown, ND	2,772	Truck accident
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9/17/2017 West Seattle, WA 302 Equipment failure 9/18/2017 NYC, NY Subway shutdown Transformer failure 9/18/2017 Huntington, WV 300 Accident hits pole 9/18/2017 Murfreesboro, TN 1,300 Failed lightning arestor 9/19/2017 West Palm Beach, FL School closed Equipment failure 9/19/2017 Gulf Coast Oil platform closed Unreported outage 9/20/2017 West Palm Beach, FL Localized Grid instability 9/20/2017 Biloxi, MS 130 Pole down by car accident 9/21/2017 Huron, SD Part of city Planned	9/16/2017	Missolula, MT	>200	Snow on trees
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9/20/2017 West Palm Beach, FL Localized Grid instability 9/20/2017 Biloxi, MS 130 Pole down by car accident 9/21/2017 Huron, SD Part of city Planned	9/19/2017	West Palm Beach, FL	School closed	Equipment failure
9/20/2017 Biloxi, MS 130 Pole down by car accident 9/21/2017 Huron, SD Part of city Planned	9/19/2017	Gulf Coast	Oil platform closed	Unreported outage
9/21/2017 Huron, SD Part of city Planned	9/20/2017	West Palm Beach, FL	Localized	Grid instability
	9/20/2017	Biloxi, MS	130	Pole down by car accident
9/21/2017 Cape Cod. MA 32 000 Jose storm	9/21/2017	Huron, SD	Part of city	Planned
-,-,	9/21/2017	Cape Cod, MA	32,000	Jose storm

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9/21/2017	Orange Cty, CA	5,700	Unknown
9/22/2017	Sheldon, IA	250	Tree on line
9/22/2017	Las Vegas, NV	2,300	Equipment failure
9/22/2017	Reynoldsburg, OH	13,000	Substation failure
9/22/2017	Providence, RI	1,000	Jose storm
9/22/2017	St Louis, MO	3,500	Substation failure
9/22/2017	Guilford Cty, NC	30	Crash into Utility pole
9/22/2017	Springdale, MO	3,900	Substation failure
9/23/2017	Gratiot, MO	4,900	Substation fire
9/24/2017	Holland, MI	2,000	Transformer failure
9/24/2017	Marcy, NY	4,000	Unknown
9/26/2017	San Angelo, TX	Localized	Unknown
9/26/2017	Watertown, SD	Part of city	Substation failure
9/26/2017	Dayton, OH	School closed	Fuse failure
9/26/2017	Tampa Bay, FL	37	Parachutist hits line
9/26/2017	Idaho Falls, ID	29	Squirrel
9/26/2017	Southwest, MS	2,000	Tree hits line
9/26/2017	Brooke Cty, WV	877	Auto accident
9/26/2017	Cookeville, TN	Part of city	Planned

^{*} List may not be exhaustive. Impact is measured in the number of households/businesses affected, unless otherwise noted.

Total Power Protection from Desktop to Data Center

Liebert® GXT4™ UPS 500 - 10,000VA



Liebert EXM™ UPS 10 - 250kVA



Liebert EXL™ S1 UPS 1000 - 1200kVA/kW



 $\textbf{VertivCo.com} \hspace{0.2cm} \textbf{I} \hspace{0.2cm} \textbf{Vertiv Headquarters,} \hspace{0.1cm} \textbf{1050 Dearborn Drive, Columbus,} \hspace{0.1cm} \textbf{OH,} \hspace{0.1cm} \textbf{43085,} \hspace{0.1cm} \textbf{USA} \\$

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