



STEADY POWER DESPITE DEMAND



Utility Load Management for Stable Power

Utilities must power homes, businesses, hospitals, schools, and factories despite the swings in energy supply. Having Cat[®] natural gas generator sets helps utilities quickly and efficiently provide electricity when demand is high. Balancing the amount of available power during times of high usage results in savings for utilities and their ratepayers and reduces regional energy demands.

- + Utility load management systems use generators and paralleling equipment, allowing the generator to monitor the electric grid, start up as necessary, and synchronize frequencies with the grid.
- + By using data to predict peak usage events, utilities can efficiently provide on-demand power.
- + Periods of high consumption are typically during the summer, but also occur throughout the year, such as after work and school from 4-8 p.m. on weekdays, or during inclement weather.
- + Providing an alternate onsite power source during peak usage helps utilities meet demand and save money, some of which can be passed on as savings to customers.





PROVIDING CHEAPER POWER AND PLAYING THE MARKET



Utah Municipal Power Agency

Provo, Utah

Solution: Five Cat G3520H generator sets, 15 kV utility paralleling switchgear

The largest municipally owned electric utility in the state of Utah, Provo Power uses utility load management to balance its electrical load demand and to stabilize energy costs.

The utility has its own source of generation to provide cheaper power during high usage in the hottest and coolest time periods in summer and winter. While renewable energy resources are being integrated into the electrical grid, they depend on the sun shining and the wind blowing. If one of those resources go down, the utility seeks additional sources. Those times can provide additional opportunities for the municipal utility to play the market. Provo Power can also provide black start capability in the event of a power outage from the grid via a remotely operated facility in Spanish Fork.

Scan code or [CLICK HERE](#) to learn more.



SAVING BETWEEN \$5,000 TO \$8,000 A MONTH



Volunteer Energy Cooperative

Decatur, Tennessee

Solution: Two G3412 gas generator sets and two G3512 gas generator sets

One of the largest rural electric cooperatives in the nation, Volunteer Energy Cooperative (VEC) serves members through nine customer service centers. It has a contract to buy all its energy from the Tennessee Valley Authority (TVA), although it's allowed to generate power for its own facilities. VEC's engineering department continuously monitors the system to predict when the most usage will occur, typically in the hours shortly before and after people go to work. It uses its generator sets to make extra power to replace energy used in offices and a maintenance facility.

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REDUCING RESIDENTIAL AND COMMERCIAL RATES BY 11.5 PERCENT



Town of Berlin

Berlin, Maryland

Solution: Cat G3520 gas generator set

When Berlin's rates hit a peak high in 2007-2008, the town implemented several cost- and energy-saving initiatives, including working with the town's electric utility consultant, Booth & Associates, to use utility load management. By analyzing data to forecast peak events, the municipal utility can run its generators as little as six times a year.

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