

ENERGY STORAGE

FAST FACTS

Devices that can store energy for use at a later time have developed rapidly to meet the rising requirements for energy. The U.S. is on the cusp of a breakout year for energy storage.

The U.S. energy storage market is forecast to grow 250 percent in 2015, according to the inaugural U.S. Energy Storage Monitor report from GTM Research and the Energy Storage Association (ESA). enerG takes a look at some of the highlights of the report:

- ▶ Deployments will increase from 62 megawatts in 2014 to 220 megawatts in 2015. This represents more than three times the 2014 total, and growth should continue at a rapid clip thereafter, says the report.
- ▶ The report notes, however, that both behind-the-meter segments saw a dramatic increase in deployments in the fourth quarter of 2014. GTM Research expects behind-the-meter storage to account for 45 percent of the overall market by 2019.
- ▶ Over the course of the past year, 180 grid-connected electrochemical and electromechanical storage installations came online, representing 61.9 megawatts of power capacity. That's up 40 percent from the 44.2 megawatts completed in 2013.
- ▶ The energy storage market is geographically concentrated within the U.S., with the vast majority of deployments in a small number of markets. The report cites PJM in the northeast and California as taking the early lead in policy, regulatory drivers, and wholesale market structure to encourage storage deployments. In fact, two-thirds of all deployed capacity in 2014 was located in PJM.
- ▶ Ninety percent of new U.S. energy storage capacity in 2014 was in front of the meter, while 10 percent was behind the meter at residential or non-residential (commercial, education, military, or nonprofit) sites.

- ▶ The market was concentrated in terms of technology as well, with 70 percent of all 2014 deployments using lithium-ion batteries.

"Demand continues to rise for energy storage solutions—for the entire range of applications," said Matt Roberts, executive director of the Energy Storage Association. "Companies that understand the market opportunities and the competitive policies that are driving adoption are poised for immense growth."

- ▶ By 2019, GTM Research expects the U.S. energy storage market to reach 861 megawatts annually and be valued at \$1.5 billion, about 11 times its size in 2014.

