

## Energy and Utilities

### Data Sheet

- Smart energy grid management
- Energy sensors and meter data capture
- Weather monitoring systems
- Energy usage analytics
- Energy trading systems
- Outage analysis and forecasting



Today's modern energy company needs to manage vast amounts of data that comes in at a rapid pace from many different locations at once. Collecting measurements from countless sensors and energy meters, managing large energy grids, constantly monitoring weather conditions, analyzing customer energy usage, trading energy capacity in the manner of stock exchanges, and analyzing historical data to cut down on outages are just some of the use cases that can't be satisfied with legacy database technology, and instead require new data management platforms that are up to the challenge.

### How can DataStax Help?

DataStax provides DataStax Enterprise, which is an enterprise NoSQL platform built on Apache Cassandra™, which is a massively scalable NoSQL database. DataStax Enterprise is designed to handle the demands of modern energy applications by managing real time, analytic, and enterprise search data all in the same database cluster.

### Benefits of DataStax Enterprise

- Continuous availability with no single point of failure so applications always stay online.
- "Active Everywhere" read/write design that is the gold standard in spanning multiple data centers and cloud availability zones.
- Linear scalability and transparent scale out for ensuring optimal performance all the time.
- Operational simplicity so both time and money aren't wasted in babysitting hard-to-manage systems.
- Flexible data model for capturing and storing all types of energy-related data.
- 24x7 expert support for key systems.

### Energy Customer Examples

- E3 Greentech provides key information and home management services to utilities with DataStax technology that includes reading hundreds of thousands of energy sensors around-the-clock.
- Accenture uses DataStax for machine-generated data coming from smart meters to drive demand forecasting for utility companies so they can make smarter buys on the energy spot market.
- The U.S. Department of energy uses Cassandra for its energy bus platform that monitors / analyzes energy data.

Visit the DataStax website for more information and downloads of DataStax Enterprise.