

Energy Demand Forecasting

Cortana Intelligence Suite







Trends and Business Requirement



Internet of Things (IoT), alternative energy sources, and big data have merged to create vast opportunities in the utility and energy domain

The utility and the entire energy sector have seen consumption flattening out with consumers demanding better ways to control their use of energy

Utility & Smart Grid companies are in great need to innovate & renew themselves & find ways to forecast future energy demand



Balances Supply and Demand



Controls Cost



Determines Production Volumes

Benefits of Energy Demand Forecasting





Prevents Energy Wastage



Forecasts Future Demand &



Use Case | eSmart Systems - Overload optimization



Business 01 need **eSmart**

02

Solution

To achieve the business need, an accurate and fast performing prediction is needed which requires implementation of three predictive models:



Long term model

that enables forecasting of power consumption on each substation during the next few weeks or months

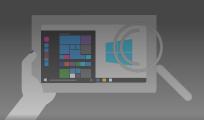
Short term model

that enables forecasting of power consumption on each substation during the next few weeks or months

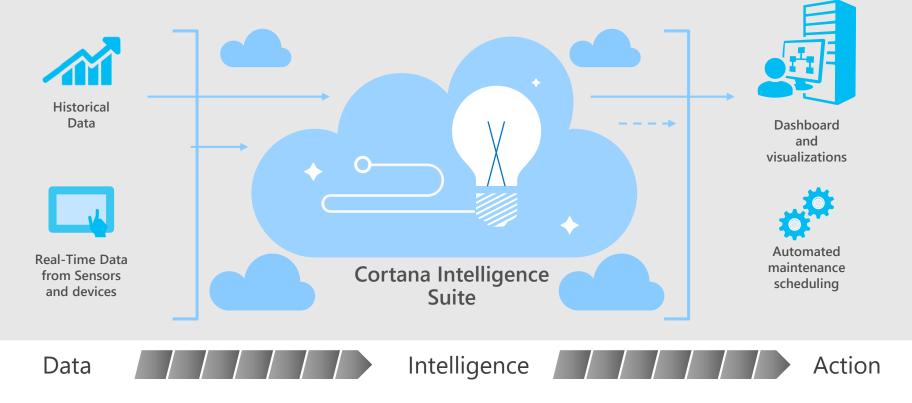
Temperature model

that provides forecasting of future temperature over multiple scenarios

Cortana Intelligence Suite Solution Overview



Demand forecasting can help solve critical business problems in many ways and can be considered the foundation for many core use cases in the industry. New abilities to trade power between utilities have brought in a great need to forecast future demand and future price of electricity. Cortana Intelligence Suite offers advanced capabilities for data ingestion, storage, and processing, and advanced analytics allowing our customers to build robust energy demand forecasting solutions.



Demand Forecasting

