



ESSENTIALS

CHALLENGE

Utilities must keep up with growing energy demands while increasing business efficiency and managing pricing strategies. Legacy infrastructures are not designed to handle diverse types of data and produce the intelligence necessary to improve production, reduce unplanned maintenance, and boost revenue.

SOLUTION

Dell EMC Analytic Insights Module enables utilities to analyze data faster and move from discovery to actionable insights in the shortest possible time.

BUSINESS OUTCOMES

- Accelerate time to insights from months to weeks
- Improve production uptime with predictive maintenance
- Enhance commodity pricing to increase revenue
- Prevent fraud and energy theft

DELL EMC ANALYTIC INSIGHTS MODULE FOR UTILITIES

Boost Production, Efficiency and Revenue with Data-Driven Insights

STAY AHEAD OF INCREASING ENERGY DEMANDS

Electricity, oil, gas—they are among our most precious commodities needed for everyday life and commerce. But utilities face significant challenges to meet rapidly growing energy demands in the face of relentless price pressure.

Oil and gas companies need to accelerate discovery and extend the life of existing fields by improving recovery efficiency. This requires a huge amount of data to improve well production and minimize non-productive time (NPT). For electric utilities, the flood of data from smart meters and smart grid technologies holds the key to improving distribution and pricing models based on demand. The challenge is that legacy data warehouse systems are ill equipped to handle big data. This results in multiple, small data siloes that can require months to produce useful intelligence.

Utilities need a solution to pool, enrich, analyze, and act upon their data in real time. Dell EMC Analytic Insights Module helps address these challenges.

TRANSFORM DATA INTO ACTIONABLE INSIGHTS

Analytic Insights Module delivered on Native Hybrid Cloud, is a turnkey platform based on Pivotal Cloud Foundry. It combines self-service data analytics with cloud-native application development, providing a ready-to-deploy hybrid cloud solution that eliminates the months it would take to build a solution in-house.

Analytic Insights Module delivers flexibility, deep data awareness, and rapid transformation of customer, operations, and business data into actionable results. It brings together utility executives, data analysts, application developers, and IT teams with the insights, data sources, tools, and controls they need to accelerate data analytics initiatives and improve production efficiency, generation uptime, and revenue.

IMPROVE PRODUCTION AND PRICING STRATEGIES

Analytic Insights Module integrates data from systems such as customer information systems (CIS), supervisory control and data acquisition (SCADA), and enterprise asset management (EAM) into a single organized resource. Instead of spending 80 percent of their time finding, assessing, blending, and wrangling data¹, data analysts can shrink the time to produce actionable insights from months to days.

By securely sharing curated data sets through the Data and Analytics Catalog, data analyst teams also empower other stakeholders in the utility. C-level executives can harvest insights from the data sets for new hedging and pricing strategies. Operations staff can derive insights to optimize voltage and boost well production.

¹ “Boost your Business Insights by Converging Big Data and BI” March 25, 2015, Forrester Research

DATA ANALYTICS USE CASES FOR UTILITIES

- Data integrity and data integration
- Abnormal situation and intelligent alarms
- Smart meters
- Customer Information System (CIS)
- Geographic Information System (GIS)
- Supervisory Control and Data Acquisition (SCADA)
- Outage Management System (OMS)
- Computerized Maintenance Management System (CMMS)
- Enterprise Asset Management (EAM)
- Well performance management
- Well downtime management
- Collaboration and decision support
- Production optimization
- HSSE compliance

Developers also can plug data sets directly into Pivotal Cloud Foundry's application development framework to build data-driven applications. These can be used to generate real-time operational visibility, predict incidents to reduce unplanned maintenance, and drive higher plant efficiency.

GREATER INSIGHTS FOR GREATER BUSINESS VALUE

Analytic Insights Module supports a continuous self-enriching analytics cycle that generates greater insights and value as more data is fed into it. For example, as smart meter adoption expands, customer usage data can help determine network build-out based on geographical demand. Continuous analysis of consumption patterns also can reveal opportunities for upselling new energy offerings to boost revenue.

PREVENT FRAUD WITH STRONGER DATA SECURITY

Analytic Insights Module provides everyone from the C-suite to analysts and developers with self-service access to the relevant data sets they need, using the tools they choose. This helps electric utilities use analytics-driven insights to enable a secure, self-healing grid. Oil and gas companies can use insights for real-time drilling decisions, weekly logistics changes, or long-range reservoir planning based on seismic traces.

In addition, the solution's Data Governor ensures that data sets are secure. IT administrators can easily create and manage granular data access policies with end-to-end data visibility and traceability. This helps prevent fraud and energy theft. It is also a critical element for operating in accordance with health, safety, security and environmental (HSSE) regulations.

GET STARTED NOW

Dell EMC Services offers a portfolio of consulting engagements to accelerate your data analytics initiatives. Two consulting services, Analytic Insights Module Software Installation and Analytic Insights Module Use Case Implementation are available to support and extend the value of the platform. Many customers start with our Big Data Vision Workshop to quickly identify their best data-driven use cases. We can also help enact your plans by developing your Big Data architecture, surfacing data insights, developing and implementing analytics solutions into production, and operating your Big Data environment.

Contact your Dell EMC sales representative to learn more about Analytic Insights Module and how it can benefit your organization.

CONTACT US

To learn more, contact your local representative or authorized reseller.



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