onesait utilities | metering

Deepen the insights into business needs leveraging metering data

Meter Data Analytics, a platform oriented to treatment of metering data, with powerful analytics functions such as demand forecasting, characterization of customers demand profiles, demand management, and load analysis of distribution assets.

1. Data Acquisition

Analyze metering data with data from other sources in the same platform, for more thorough understanding.

2. Data Analysis

From streaming to processing data, from storage to visualization, this platform helps any utility to increase the reach of data analytics through the application of machine learning.

3. Capture Opportunities

Turn data into knowledge to improve network operations, identify overloaded assets, detect feeder hosting capacity, increase revenues, reduce losses and spot exceptions in customer load profiles.

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Functionalities

Monitoring
MDA provides many ways to visualize data to suit business needs. Metering data can be aggregated to analyze load patterns at different levels: building, service transformer, circuits, feeder and substation.

Demand Forecasting
Utilities can identify demand profiles (electricity, gas, water…) and by using MDA's machine learning forecast hourly demand including weather forecast variable and situational variables.

Characterization
With MDA, utilities can study energy usage characteristics, demand gaps and recognize patterns over distinct periods (monthly, daily, hourly). MDA also allows to comprehensively study energy flows across the whole service network, based on historical data, weather data and other external variables.

Outlier Identification
Through the analysis of historical data, MDA can define energy usage habits at service point level and spot deviations (outliers) and dates when they have occurred.

Innovation
MDA helps finding the most suitable network sections to plan for new commercial offers such as, Roof top PVs, energy storage, dispatchable generation, EVs.

Main Features

Reporting
MDA encourages collaboration within the organization, through sharable dashboards, KPIs and reports. Its modern and sleek interface eases making smarter business decisions based on solid quantitative analysis. MDA helps utilities achieving broader visibility of growing trends and anticipating future needs.

Flexibility
Flexibility is everywhere, from the user interface to the analytics tools, from data acquisition to its storage. Additionally, MDA's open-source components mean no vendor-lock in.

Scalability
Great scalability that allows Utilities to manage, use and export data to external platforms. MDA's user interface is browser-based and it can be deployed in AWS, Google CP, Microsoft Azure and on premise.

Platform Governance
MDA features an integrated governance of all elements (acquisition, staging, storage, analytics, visualization and user management) and of the API layer to integrate with enterprise systems such as MDM, GIS, Work Force Management, SCADA, etc. and IIoT field devices and platforms.

Relevant KPIs

- % deviation on typical consumer's consumption pattern
- Positive Irregular consumption candidates
- Monthly consumption increase
- % Gaps in readings and in demand
- Average Consumption
- % Error on consumption patterns
- Maximum Consumption / demand
- Overloaded and underused network assets
- Energy delivered by asset

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