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Utilities

Oracle Utilities Analytics Insights

Oracle Utilities Analytics Platform was designed to deliver the robust yet simple to use analytics tools you need to become a master of your data. Built with utility-specific needs in mind, we offer analytics you need to visual and manipulate data across systems to discover fresh insights. With our platform, the power of data science and machine learning is at your fingertips.

UNCOVER THE STORY YOUR DATA IS TELLING

Utilities around the world are deploying machine learning (ML) and advanced analytics to help improve performance across their business. Disruptive trends across DER adoption, electrification of transportation, and extreme weather coupled with aging infrastructure, are pushing utility leaders to rely on analytics to navigate the added complexity to their business.

We believe that to tackle these challenges, analytics should not just be a toolkit, it should be a central capability in every utility process. Oracle Utilities continues to be at the forefront of data science for utilities. Our data science team has created an extensive library of utility-specific use cases that span from asset operations to customer engagement

The Power of Machine Learning to Answer Your Most Complex Questions

Oracle Utilities Analytics Insights deliver prebuilt machine learning insights designed to drive utility business outcomes, solving specific and complex use cases with data science.

- Drive deep business value across areas like theft recovery, grid optimization and more

- Find the needle in the haystack with trained algorithms – pinpoint where EVs are charging, identify water leaks before they impact the customer bill, predict storm damage, and so much more

- Enable your teams to explore machine learning results through powerful visualization tools

Our analytics platform power:

- Over a petabyte of data leveraged for machine learning

- 2/3 of US smart meter data runs on our platform

- Servicing 550 million homes

- Managing 2.8 billion utility bills

- 700 billion meter reads annually

Utility Successes:

- "…saved over $1M in theft and losses in our first year…"

-Manager of Revenue Protection, Texas Utility

- One North American IOU recovered over $10 million in revenue with Analytics Insights-driven theft and broken meter detection
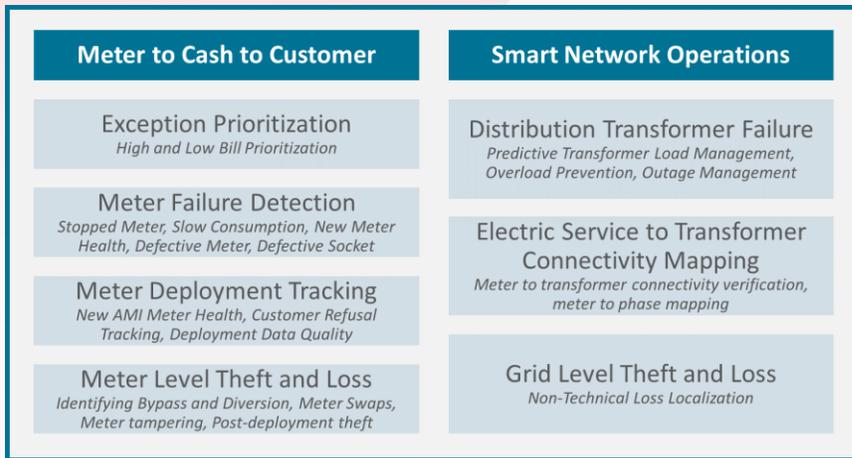
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Figure 1: Sample menu of prebuilt insights available across utility meter-to-cash, AMI deployment, and network operations.

USE CASE DEEP DIVE: ELECTIC VEHICLE DETECTION

Tapping deep machine learning, Oracle Utilities Analytics can identify the presence of an EV, show the time and frequency of charging, and disaggregate the energy being consumed from the vehicle with advanced metering infrastructure (AMI) data. With this insight, utilities can better plan for the demand growth needed to power EVs at scale, while engaging customers to charge at times that are the least expensive for them and best for the health of the energy grid.

Figure 2: Oracle Utilities Analytics Insights deep learning algorithm disaggregates EV charging from whole home energy use, providing accurate accounts across the network of where and when EVs are charging as well as how much the EVs are impacting load demand.

Key Features:

- Trained machine learning algorithms that provide insights that drive significant business value for utilities

- Insights resulting from the machine learning algorithms are surfaced into Oracle Analytics Cloud to be explored further by utility users

- Standardized data ingest from the Oracle Utilities apps speeds up delivery

- Flexible platform allows the ability to ingest any type of data and allow our data scientists to add it into an algorithm

- Export tools allow insights to be added to any data lake

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