

HOW DATA AND ANALYTICS ARE TRANSFORMING ENERGY AND UTILITIES

THE OPPORTUNITY

A connected ecosystem generates more data than ever

1.2B
Global Smart Meters
by 2024¹

By 2023,
75%
of utilities assets
will be digitally
connected.²



INVESTMENTS IN ADVANCED METERING INFRASTRUCTURE (AMI)

\$145.8B
in 2024¹

OPPORTUNITY:

Continuous improvement and digital innovation could increase profitability by up to

20%

by 2021.²

THE SOLUTION

The power of data and analytics

By 2022



55%

of utilities will use a core digital platform to automate, optimize, and orchestrate assets, business processes, customers and employees.²

By 2020



65%

of power, gas, and water companies will have invested in **edge analytics** and computing.²

Artificial intelligence will enable water, gas, and electricity companies to reduce revenue losses by

70%.²



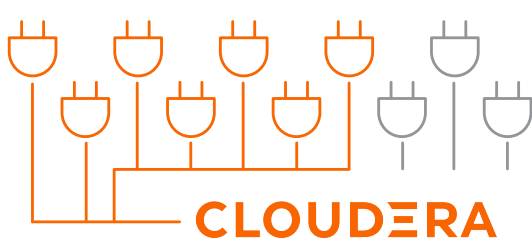
We've completely changed the way to collect, store, search for, identify, and use data to make actionable decisions. What previously took days to develop code, we can now do in minutes.

John Kuchmek, senior technologist, American Water

RESULTS

Transforming energy and utilities with data and analytics

7 of the **top 10 utilities** across the globe run on Cloudera



Goal: Protect revenue from theft and malfunctioning and misconfigured meters

DATA ANALYSIS
TIME TO INSIGHTS
REDUCED FROM 6 MOS.
TO LESS THAN AN
HOUR

REVENUE PROTECTION
TENS OF MILLIONS OF DOLLARS
by 2020



We were able to use machine learning on billing, smart meter data and other data sets to better understand when we had energy theft issues across our systems.

– Catherine Hope Butler, Duke Energy

Goals: Reduce costs, increase data accuracy with smart metering, and improve customer interactions

centrica



\$55M
RETURN ON INVESTMENT

COLLECTING & ANALYZING DATA FROM MORE THAN

2.9M
SMART METERS

Centrica uses smart meters to monitor consumption in real time to gain visibility into usage patterns and give customers the ability to tailor services to their needs.



Goals: Predict power consumption and serve customers in an efficient, customer-friendly way

40B
RECORDS ANALYZED

CONSUMER ELECTRIC COSTS REDUCED BY
30%



With Cloudera, we can apply big data thinking across the whole company. No decision is taken unless it is backed by data extracted from the platform.

– Alberto Hernández Seco, Technology Manager, Podo

Get more information about [Cloudera for Energy and Utilities](#).

¹ Wood Mackenzie, "AMI Global Forecast 2019-2024: H1 2019", July 23, 2019.

² IDC, "Top 10 Worldwide Utilities 2019 Predictions," November 28, 2018.