

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



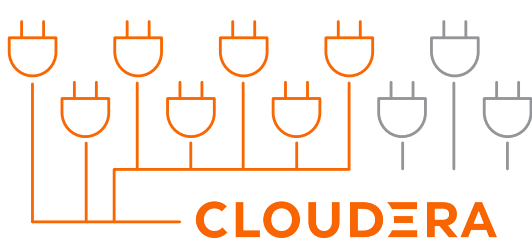
We've completely changed the way to collect, store, search for, identify, and use data to make actionable decisions. What previously took days to develop code, we can now do in minutes.

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



CLOUDERA



**DUKE
ENERGY**

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.

podo

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.

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