Energy Innovation Summit

Colorado Rural Electric Association

October 11, 2021

ABOUT UTILIDATA

Utilidata builds software to run the clean, modern electric grid.

We are an **energy technology company** with:

- A decade of experience developing **real-time software solutions** for major utility companies

- More experience than any other company **using smart meter data** for grid operations

- A unique combination of expertise in **engineering, computer and data science, energy, and public policy**

Our vision is to digitize the grid edge to unleash the full potential of clean energy.
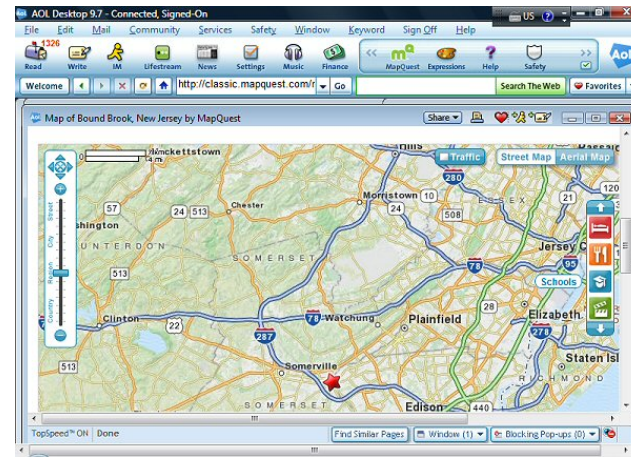
Select Customers & Partners

THE TECHNOLOGY EVOLUTION

Our software leverages real-time data to enable distributed optimization.

The Utility Default:
Analog systems and static models

Moving to Digital:
Using software to operate more efficiently and deliver enhanced benefits

Embracing Software:
Leveraging real-time data and machine learning to maximize outcomes
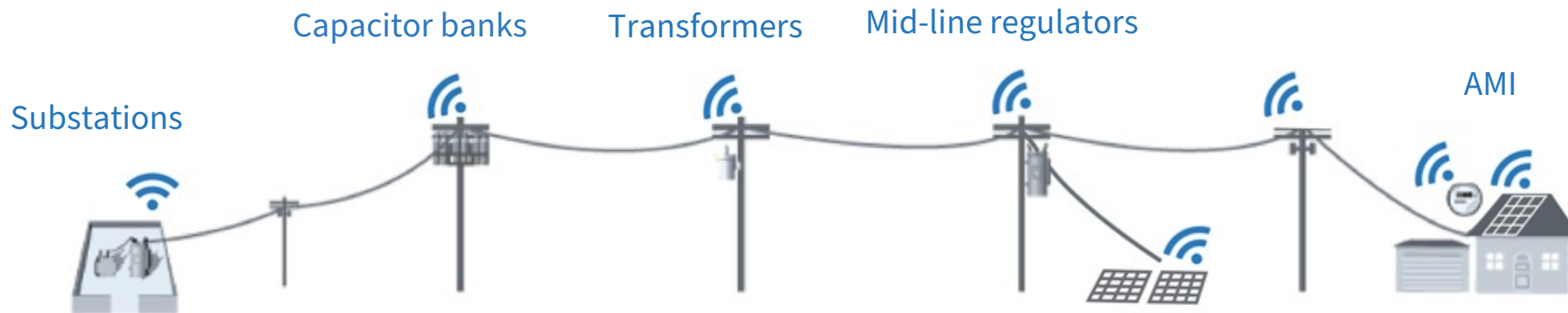
OUR GRID-EDGE OPERATING PLATFORM

Utilidata has built the only software platform that can fully leverage grid-edge data for operations.

Utilidata's platform captures **real-time data from grid-edge and primary system devices** and delivers four essential capabilities necessary for operating the clean, modern grid:

- **Visibility:** Leverages real-time data to visualize the system for operational planning.

- **Security:** Monitors for anomalies that are indicative of reliability or security issues.

- **Optimization:** Optimizes power flow to save energy, reduce peak demand, and integrate clean energy.

- **Control:** Operates distribution system assets.

Utilidata's Grid-Edge Operating Platform

Microgrids
Electric Vehicles
Electric HVAC
Smart Home Tech
Batteries
Solar panels
Industrial IoT
BEMS

UTILIDATA OPERATES BETWEEN THE SUBSTATION AND THE CUSTOMER

Capacitor banks

Transformers

Mid-line regulators

Substations

AMI

Primary Device Data
- Voltage
- Device State
- Real and Reactive Power
- Current

DER Data
- Voltage, real and reactive power, etc.
- Device State (e.g. state of charge for storage, mode of smart inverter)

AMI Data
- Voltage
- Custom applications for topology, virtual power flow, and anomaly detection

Meter-based computation improves grid operations. We built the first app for Itron meters and our apps will be embedded in all Landis + Gyr Revelo meters.

OUR VVO DELIVERS MORE THAN ENERGY EFFICIENCY

Our software platform delivers a suite of benefits that stakeholders are demanding.

By leveraging real-time data from entire grid, we deliver:

- **Double the energy savings** of any other grid optimization solution

- **Add voltage headroom for solar** through central and distributed voltage optimization

- **Manage localized capacity constraints** to avoid or delay upgrading assets

PROVEN RESULTS:

4%+ energy savings

4%+ demand reduction

25%+ improvement in asset health

50%+ solar hosting capacity