



Jason T. Keller, P.E.

Director, Grid Infrastructure and Engineering
Duquesne Light Company

- Electrical Engineer
- Registered professional engineer
- Over 20 years of experience in the electrical utility industry
- Held several positions during his career:
 - Craft work
 - Engineering
 - Supervision
 - Management
 - Senior leadership

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DLC Overview



>615,000
Customers



1,800+
Employees



\$2.7 Billion
Investment in transmission and
distribution infrastructure through
2030



5 Service Centers
Edison, McKeesport, Penn Hills,
Preble, Raccoon



90% Residential
Customer base



341 Substations
Including company and
customer-owned



>8,400 Miles
Transmission, distribution and sub
transmission lines maintained



812 Square Miles
Service territory in Allegheny
and Beaver counties



315+
EV charging ports incented by
DLC and more coming soon

Current Technologies Providing Grid Visibility

- Deployed **1,200+ intelligent pole top devices** transmitting real-time data and enabling remote operations.
- Network of **630,000+ intelligent metering at customer points of use** providing operational data.
- Over **500+ dedicated remote terminal units (RTU)** on electrical network feeding downtown Pittsburgh supplying loading, alarming and equipment status of critical loads.
- **Robust SCADA** (Supervisory Control and Data Acquisition) at all major substations and operations centers.

What do we use the data for?

- The Energy Management System is the primary use case of operational data.
 - Allows DLC to **monitor, control and optimize** grid operations.
 - **Ensures system stability** through real-time monitoring of key variables including voltage, power flow and operational status.
 - **Analyzes and predicts** load forecasting and **contingency analysis**.
 - Allows **informed decision making** during planned and unplanned outages.

Forward looking Technologies Enhancing Traditional Grid Visibility

Gridware 



Gridware provides **real-time grid monitoring for advanced grid reliability and resilience**

- 1,933 sensors installed
- ~4,000 poles monitored
- In service since 10/4/2024
- 460 alerts received to date

Hardware developed with multi-domain physical sensing and on-device intelligence

Deployment of AMI 2.0 edge-enabled meters (~20K) starting 2025-26

- Meters become grid-edge computing platforms with near real-time intelligence
- Capabilities: Monitoring, DER/EV visibility, power quality and asset awareness
- Visibility: Real-time insight at the grid edge
- Operational Value: Proactive safety, reliability and system integration
- Outcome: Intelligent edge network enabling DER integration and grid modernization

Itron

