Element Unify for Power and Utilities
Meet 21st century challenges with data

Power and utilities businesses are pursuing transformation to cut costs and achieve growth in the face of newer challenges like cyber risk, decarbonization, and ESG (environmental, social, and governance) mandates and the ever-present needs for optimizing capex and working capital and maximizing asset utilization.

Yet the IT/OT landscape at most power and utility companies is not suitable for modern analytics. Teams rely on approaches based on python code and spreadsheets to wrangle data in support of desired analytics. These approaches are inefficient and the resulting models difficult to maintain giving rise to governance and scaling challenges.

Element Unify for Power and Utilities

Element Unify for Power and Utilities is a solution offering that fast-tracks time to insight for power and utilities companies.

The solution includes:

- The Element Unify platform

- Element-developed asset templates for assets such as transformers, batteries, breakers, etc.

- Asset templates based on the IEC 61970 Common Information Model (CIM) for energy grid assets*

- Example pipeline to map sensor and asset data to templates using Unify transformations

- Example graph model of California electric transmission system

- Sample datasets based on frequently-encountered data sources

- Project initiation workshop to support realization of solution benefits

No-code pipelines for building data models

Easy to Build and Maintain Knowledge Graph-Based Model

Key Benefits

Element Unify uses automated, no-code data pipelines to integrate and contextualize IT/OT metadata, storing relationships in Unify Graph resulting in value along speed, quality, governance, and scale dimensions.

- **Speed** – dramatic reduction in time to build data models and derive insights
- **Quality** – confidence that the data used to drive analytics is sound
- **Governance** – based on on-going management of the data feed to ensure on-going value
- **Scale** – ability to scale from one to hundreds of use cases as needs evolve

Package Highlights

Package Component	Outcomes
Unify no-code pipelines	· Eliminate manual effort, realize fast time to insight · Eliminate dependence on spreadsheets and Python coding skills · Easy to understand, maintain and govern data models
Unify Graph	· Easily capture complex data relationships · Eliminate need for a priori schema definition, operate flexibly · Visually and programmatically explore data model · Incrementally add to model as use cases emerge and needs evolve
Unify AssetSync	· Keep models up-to-date and in sync with physical assets
IEC 61970 CIM templates	· Get started quickly with optional industry-standard templates
Project initiation workshop	· Unify data experts help get project scoped and off to a great start