



## DATA SHEET

# Outage intelligence

## Our innovative advanced analytics solution for rapid outage prediction and restoration

### OMNETRIC Outage Intelligence

OMNETRIC Outage Intelligence is a geospatial analytics accelerator. It is designed to assist utilities to:

- Predict outages based upon factual data and algorithms rather than monitored assets
- Understand where forecast outages or damage may occur and take proactive measures
- Issue pre-advisory messages
- Pre-stage assets and coordinate resources
- Monitor response to facilitate a more accurate (re)calculation of time to restoration
- Easily reconstruct entire outage event, including:
  - Estimated impact
  - Pre-storm plan
  - Actual outage events and utility response
  - Post-storm wrap-up and restoration to normal service
  - Planned versus actual storm performance and cost.

### Part of a comprehensive outage management solution

OMNETRIC Outage Intelligence is a critical part of OMNETRIC Next Generation Outage Management Solution.

OMNETRIC Next Generation Outage Management Solution seamlessly integrates evolving data sources and applications (e.g., social media mining and smart grid analytics) with core systems (traditional outage management systems such as OMS, DMS and ADMS) and IT systems. This concept brings together the solution strengths of an ecosystem of providers and enables utilities to leapfrog the limitations imposed by existing power technologies to more effectively address outage management.

### How does it work?

OMNETRIC Outage Intelligence harnesses utility source data alongside data from external services – for example it comes with pre-packaged API's to weather sources – to drive predictions. The core capability of this solution is its ability to

view severe weather information in the context of the assets in the field. Key features include scenario simulation, outage prediction, outage restoration, and asset management.

Experienced OMNETRIC data scientists determine what data and outputs are required. We then provide a simple graphic user interface, algorithms and all relevant services, from solution design to implementation, field testing and commissioning, and oversight.

Using data assembled from disparate sources, the solution runs scenario simulations using advanced analytics to predict outage areas and impacts on assets and operations, and inform resource, execution and restoration planning.

- **Geospatial visualization** capabilities enable multi-layer zoom viewing of the storm area and customized viewing by control area, county, and zip code.
- **Weather feeds** from open data sources and pre-built APIs are polled and data is categorized for use in real-time and severe event applications. Historical data is stored for analytics and archived to meet reporting requirements.
- **Simulation scenarios** make use of pre-defined analytics to simulate impacts of wind, lightning, ice, heat, and floods.
- **Forecasted outage area** provides a view of severe weather information in the context of the assets in the field.
  - **Assets – outage prediction** looks at the age and history of assets, as well as engineering thresholds.
  - **Vegetation** risk is simulated.
- **Optimized staging of crews** via crew distribution and shift scheduling functionality.

### Ease of use

OMNETRIC Outage Intelligence is available as a cloud-based or on-premise solution. It has a number of outage intelligence applications ready for use, from low-cost entry level applications that facilitate future analytics expansion, to accelerators for rapid co-creation of value.



## Get in touch

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## About OMNETRIC

OMNETRIC is dedicated to helping energy providers reap the benefits of the digital energy system by integrating their energy operations with IT to support their business goals.

Our global team of engineering, IT, security and data experts brings extensive industry experience to help customers discover and exploit data intelligence to capitalize on industry change, and realize new business models.

Helping customers since 2014, we are an inventive, technology services company. For more, visit [www.omnetric.com](http://www.omnetric.com).

OMNETRIC is a Siemens company.