

OptaNODE[®]

Simple and affordable SCADA-like functionality

Electric utilities are continuously facing operational challenges that must be managed in a timely manner. Supervisory Control and Data Acquisition (**SCADA**) systems allow them to manage processes and tackle such challenges. However, **SCADA** usage is mostly limited to substations, despite the fact that it could benefit greatly from reaching further into the feeders.

With busy personnel, scarce resources, and monitoring needs which cannot afford long and costly implementations, extending **SCADA** systems reach beyond the substation can be too complex, and economically unfeasible. **GRID20/20's OptaNODE Solution** overcomes these issues and allows for simple and affordable **SCADA**-like functionality and integration.

GRID20/20's OptaNODE Solution enhances SCADA

COST EFFECTIVE

OptaNODE devices are self-contained, line powered, and rugged outdoor monitors. They are Plug & Play and maintenance free, which makes them perfect for extending Distribution Grid monitoring beyond the substation. Data is immediately available via a friendly and intuitive user interface, which includes programmable, automated alerts.

FAST & EASY

With straight forward, non-intrusive live installation, **OptaNODE** devices allow for permanent online monitoring. The sensors are specially designed to be mounted on Distribution Transformers, but can also be installed in feeder voltage regulators, capacitor banks or other locations with low voltage access.

SCADA FEATURES

GRID20/20's OptaNODE Solution seamlessly integrates with **SCADA** and provides continuous monitoring, accessible anytime, from anywhere. Applications include: End of Line Voltage Monitoring, Volt/VAR Optimization, DER monitoring, and Voltage Regulation feedback, as well as Asset Loading, Loss detection, Outage Notification and Power Flow Analysis for distribution circuits modeling.

Use Cases

Existing customers are using the **OptaNODE Solution** to tackle their everyday Distribution Grid monitoring needs, as attested below by Utility personnel with 25+ years of experience:

"Whenever we get calls from customers complaining about pumps tripping offline, we check the OptaNODEs to see if the output voltages are balanced. When a regulator is blocked for some reason, it causes unbalanced voltages which causes the pumps to trip offline during the system peak."

"One SCADA-like function we've used the OptaNODEs for is to get substation voltages where three phase readings were not available. Installing the OptaNODEs is not labor intensive and access to the data is almost immediately available."

"I've recently used your Optanodes to address a low secondary voltage (below tariff) complaint which had escalated to executive levels."



OptaNODE® - Instant & reliable SCADA-like functionality, in the palm of your hand.

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