Remote Outage Analysis
Understand and control the extent of a power outage

This is how it works

- Following an outage report, Netinium checks the customer’s smart meter and neighbouring meters for power availability
- Netinium automatically determines the extent of the power outage and enables the work force manager to decide upon the appropriate response
- During the restoration effort, progress and completeness of the work is automatically monitored

Benefits

- Eliminate unnecessary customer field visits
- Address customer problems more quickly
- Predict outage cause up to individual service location-level
- More accurate service restoration planning (save up to 50% on operational expenses)
- Avoid unnecessary claims
Short term Load forecasting
Maintenance planning based on intra-day prognoses

This is how it works

- For every feeder, Netinium collects PQ data from smart meters
- It automatically generates an accurate LV grid topology (phase recognition and load assignment for each phase)
- Combined with historic and actual measurements, Netinium automatically creates a short term load forecast for the designated area

Benefits

- Replace standard load profiles by intra-day prognoses and realize a more accurate maintenance planning based on actual measurements
- Optimize scheduling of planned outages and minimize disturbances for customers
- Isolate and re-dispatch load in case of unplanned outages
- Avoid unnecessary claims
Pro-active Monitoring of PQ data
Detect early power deterioration and prevent outage

This is how it works
- For every feeder, Netinium automatically collects LV-reliability related PQ data from smart meters
- Netinium analyses PQ data and detects possible fault locations
- Ongoing monitoring can be repeated at given intervals and for designated areas

Benefits
- Detect early signs of possible outage
- Take preventive action to avoid outage and lower grid maintenance costs
- Avoid power outage related claims
- Increase grid reliability (SAIDI, SAIFI)
Automated Line voltage control
Increase PV capacity without investments in grid reinforcement

This is how it works
- In feeders with high penetration of PV, Netinium collects voltage related PQ data from smart meters
- Netinium automatically monitors over-voltage conditions
- In case of over-voltage, Netinium automatically provides a specific control signal to the PV inverter

Benefits
- Realtime voltage control
- Install 40% more PV capacity without investments in grid reinforcements
- Prevent sustained over-voltage conditions at customer premises and avoid claims
- Enable mass adoption of roof top solar without additional staff (RPA)
Secure investments, increase efficiency and enable distributed energy resources

Building on the strong foundations of the Netinium AMM+, we enable you to manage your low-voltage grid using data from smart meters.

Technologies such as Distributed Energy Resources (DER) and Electric Vehicles (EV) pose immense complexity and technical challenges to grid operation. These developments force DSOs to highly automate their grid monitoring processes in order to meet their SLA targets.

Our IoT cloud platform applies Robotic Process Automation (RPA) to automate your business processes and increase the efficiency of your grid monitoring and control.

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  - Maintenance planning based on intra-day prognoses

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  - Detect early power deterioration and prevent outage

- **Automated line voltage control**
  - Increase PV capacity without investments in grid reinforcement

Netinium Europe Headquarters and R&D
Bruynvisweg 4, 1531 AZ Wormer, The Netherlands
+31 (0)75-6400333  info@netinium.com

www.netinium.com