

Grid maintenance optimization

SIEMENS Ingenuity for life



KNG - Kärnten Netz GmbH

Distribution grid operator for electricity and natural gas in Carinthia, Austria

T''T CLIENT CHALLENGES

Improve efficiency and lower efforts for maintenance workload with constrained budgets



OUR SOLUTION

Built an application for outage prediction and maintenance simulations



CLIENT BENEFITS

Optimized asset management prioritizes maintenance on assets with highest failure probability

>900 Prediction accuracy for failures at named assets





Electricity & Gas



Annual turnover 1,3B



Carinthia, Austria



Leading electricity and gas distribution network operator in Carinthia



THE CUSTOMER'S CHALLENGE

Advancing sustainable energy system while coping with high maintenance efforts and constrained budgets

Increased grid complexity with growing amount of distributed energy sources 2

Outage risk due to environmental factors and higher stress on assets due to integration of fluctuating sources 3

Budget constraint, avoiding / delaying infrastructure replacements



OUR APPROACH

By identifying, integrating, enriching and interpreting data, we co-created a decision support system to predict future outages

Identification of influencing parameters and available data sources

2

Integration & enrichment of own data with available external data sources

3

Co-creation of outage prediction application based on Al & domain expertise



THE IMPACT

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Optimized asset management prioritizes maintenance on assets with highest failure probability

Optimized
utilization of
maintenance
resources due to
dynamic
inspection
schedules

2

Prediction
accuracy for
future failures at
named assets
>90%

3

Smart route optimization for workforce crew as spin-off for added value



Why is Siemens Advanta the best partner for this sort of project?

Benefit from our deep Domain Knowledge

Siemens Advanta brings unparalleled operational technology (OT) experience in power utilities to the table, key to capture the essence of domain-specific challenges and work out effective solutions.

Leverage unique IT OT Integration Expertise

Cross-functional, multi-disciplinary teams with IT, OT, and analytics skills allows for a lean setup to achieve big value with limited budgets.

Profit from our powerful Ecosystem

Siemens Advanta agnostically integrates across various platforms, drawing on an extensive, global partner network to deliver tangible business outcomes for your projects.

