

SIEMENS ADVANTA

Grid maintenance optimization Kärnten Netz GmbH

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Grid maintenance optimization

KNG - Kärnten Netz GmbH Distribution grid operator for electricity and natural gas in Carinthia, Austria

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

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Ein Unternehmen der Kelag







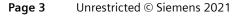
Carinthia, Austria

Leading electricity and gas distribution network operator in Carinthia



Annual turnover € 1.3 bil

Grid covering 400,000 customers 18,000 km of power lines 65,000 poles 7,000 transformers



Kärnten ____Netz

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THE CHALLENGE

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

Increased grid complexity with growing amount of distributed energy sources Outage risk due to environmental factors and higher stress on assets due to integration of fluctuating sources

Budget constraint, avoiding / delaying infrastructure replacements

2



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

Integration & enrichment of own data with available external data sources

2

3

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



THE IMPACT

Optimized asset management prioritizes maintenance on assets with highest failure probability

Optimized utilization of maintenance resources due to dynamic inspection schedules Prediction accuracy for future failures at named assets >90%

2

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.

