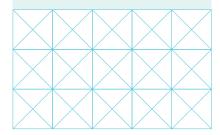


THE WORK SURFACE OF THE FUTURE

Kognitwin Grid is the digital twin solution for the distribution grid, enabling better decisions, automated processes and more efficient grid investments.

- Cloud-based, SaaS solution
- Automated load and production forecasting
- Issue identification
- Data-driven and scenario-based planning
- Advanced analytics for grid optimization
- Developed in close cooperation with DSOs



KOGNITWIN®

Accelerate the energy transition with the digital twin for distribution grids

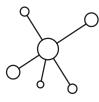
RAPID CHANGES IN THE POWER SYSTEM DRIVES A NEED FOR CHANGE

As the energy system is facing an influx of intermittent, distributed and renewable energy and a sharp increase in electrification the complexity of planning and operating the energy system increases.

These changes are causing challenges related to power quality and grid stability, more demanding customers with low-cost expectations, and new competitors with innovative solutions.



Renewables ramp-up



Low degree of digitalization



Aging assets and cost pressure



Digital grid model connecting asset data to load flow simulations



Always-on grid status identifying bottlenecks and power quality issues



Grid topology optimization for improved grid utilization

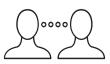
- INCREASED GRID UTILIZATION
- IMPROVED RELIABILITY
- OPTIMIZED INVESTMENTS
- DEMOCRATIZED DATA

Developed to handle the challenges of tomorrow

A digital twin solution will support the increasing complexity and enable new business models. Kognitwin Grid supports network operations, analysis, and long-term planning. This enables better informed investment decisions, automated processes, and more efficient grid operations.



Past, present and future grid condition ML-based load/production forecasting



Flexible and scalable Remove data silos 3rd party integration



Cloud-based, SaaS Data-driven Automation

Applications that support your grid operations



INSIGHT

Data
visualization
and engine
main output.
Grid state
monitoring
through
bottleneck
detection and
power quality
analysis.



PLANNER

Scenario-based
and data-driven
planning,
automation
of capacity
requests and
simulation
of future
requirements



OPTIMIZER

Optimizing grid operations through ML techniques and new tools



NEW APPLICATIONS

Integration
of 3rd party
applications,
DSO applications and
future KDI
developed
solutions

DIGITAL TWIN ENGINE

Digital twin engine that collects, adapts and contextualizes data from different sources, systems and 3rd parties to make them available for new applications and use cases. Forecasting of grid condition and continuous load flow analysis

KONGSBERG DIGITAL COMBINES INDUSTRY KNOWLEDGE WITH TECHNOLOGY EXPERTISE

With years of experience and domain knowledge, Kongsberg Digital is a global and solid technology provider. Together with our team of experts, we serve leading energy companies with innovative solutions to unlock maximum value.



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