

THIS IS KOGNITWIN

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

KOGNITWIN®

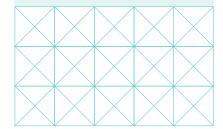
Accelerate the energy transition with the digital twin for distribution grids

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.

Grid Companies lack the tools to tackle new challenges and they need to reshape their Operating Model.





Data silos hinder efficiency



Data lacks context and accessability



New tech POC's are not being scaled



Existing systems dictates process

FROM CONTEXTUALIZING DATA AND FORECASTING LOAD FLOW TO PROVIDING ACTIONABLE INSIGHT AND PROCESS SUPPORT



GRID MODELLING AND CONTEXTUALIZATION

Combination of grid model data, asset data and real-time sensor and SCADA data to build a framework for application development



FORECAST LOAD FLOW

Power flow analysis of all grid components based on real-time and forecasted load and production values and grid topology



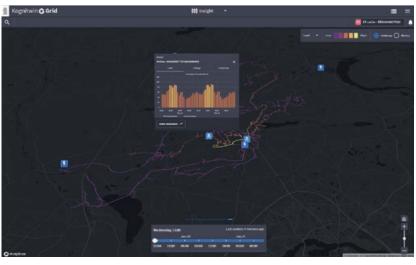
DELIVER DECISION SUPPORT

Providing actionable insight and applications that enable more efficient grid planning and operations

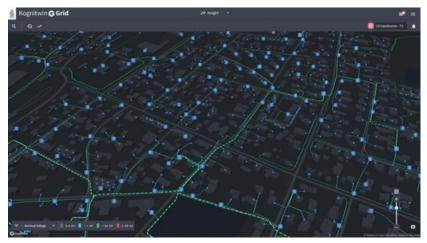
HOW KOGNITWIN SUPPORTS YOUR BUSINESS

- Grid connection requests
 Automatic and cloud-based
 evaluation of customer
 requests
- Operations planning
 Short-term prognosis of load flow to identify issues in grid operations (bottlenecks and voltage quality)
- Investment planning
 Analytics and decision support to prioritize investments
- What-if analysis Creation of scenarios by manipulating input variables (grid, load/ production, topology)

DEVELOPED TO HANDLE THE CHALLENGES OF TOMORROW



Always-on grid status: Identify bottlenecks and power quality issues



Connect asset data to load flow simulations with your digital grid model

ABOUT KONGSBERG DIGITAL

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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