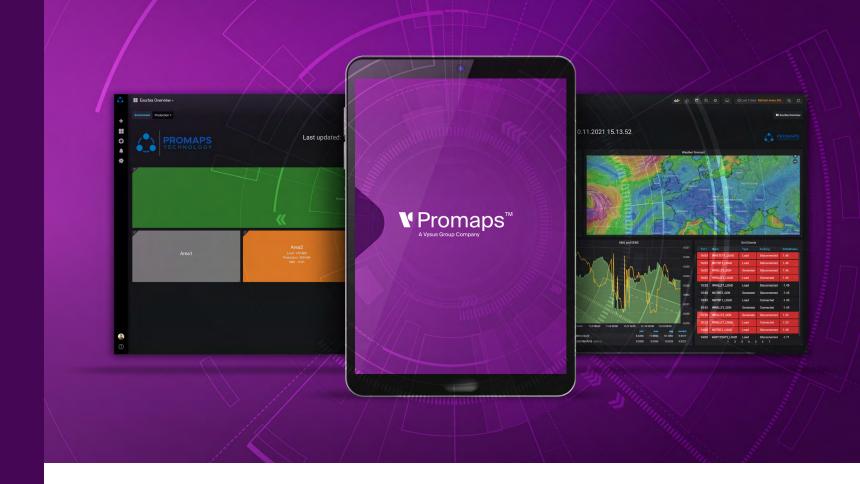# Promaps™

A Vysus Group Company

See your system-wide risk and know
when to act with Promaps™ Realtime

Keep on supplying
energy effectively

Be data driven, daily. Quantify your power system's current and future risk level. Make calculated decisions on the uncertainty you face in supplying stable energy.

From fluctuating energy supply and demand to adverse weather, maintenance schedules to reinvestment plans – Promaps™ Realtime will reduce your all-round risk.

Whatever the complexity of your energy operations, and the changes and challenges ahead, get the clarity to act.

Industry first software

Promaps™ Realtime is market-leading risk management software for your power system's reliability. It will help you identify and reduce the risk of costly outages and missed opportunities, as well as plan and develop operations efficiently. It predicts system disruption by performing probabilistic risk calculations.

Ready to run

Within minutes of receiving data, the resulting analysis gives you a real-time picture of your system's risk, the key contributors to risk and the probability of failure. You can also use the calculations for prognosis, looking ahead at your system over the next 48 hours, as well as to analyse scenarios.

Easily expandable

Promaps™ Realtime is ready to use by Distribution System Operators (DSOs) and Transmission System Operators (TSOs).

Key benefits

Using **Promaps™ Realtime** you can maximise operations across your organisation and value chain with an industry first: a dynamic, probabilistic risk baseline for your power system.

Now, your departments and teams can all have the same visibility of your operational challenges and opportunities, and share an understanding of the risk implications and the actions needed.

Help you ensure a stable and secure energy supply, avoiding outages, blackouts and financial penalties

React and take adaptive actions as situations happen, understanding and minimising their adverse impact

Back up swift decision-making with clear data that puts financial numbers on risk and its consequences

Safely push your system further, meeting reliability criteria

Expand successfully and efficiently, notably with renewable energy adoption

Be ready for emerging risk reporting requirements

Streamline regulatory approval and meet operational security best practice

Market-leading features

Promaps™ Realtime is software and a supporting service from our engineering and technology specialists.

You can be running our software in as little as three days, with an average implementation time of two weeks where relevant data is readily available. You can start with our software's core modules, building in further data sources and functionality later.

Software features

- Data APIs can connect Promaps technology to operations systems / digital twin platform.
- Real-time probabilistic risk calculations of your power system
- Failure probability for each component, branch and system
- Risk for loss of load in MWh/h for each load and the whole system
- Web-based operational dashboard for intuitive live reports and overall system status
- Model scenarios and test risk mitigation actions and strategies on a digital twin of your power system

Supporting service

Our specialists provide:

Project scoping to get you up and running

Live integration with your control systems

Ongoing technical support, with automatic software upgrades

How Promaps™ Realtime works

Promaps™ Realtime delivers probabilistic risk analysis of power supply security through our proprietary simulation tool.

Using big data and a digital twin of your power system, we calculate the anticipated energy that will not be delivered. This approach also helps you to identify the location, nature, size and root cause of problems, system-wide.

Data input is based on a full-model export from a SCADA system every five minutes. Information covers statistical component failure rates and repair and reconnection times, as well as dynamic, weather-dependent failure rates for power lines. Our simulation tool combines a flow model of your power system with reliability models of each system component.

Be proactive as well as reactive with ever-smarter technology

Promaps™ Realtime is designed to improve with your risk management capabilities and technological advances.

Our software also opens up the possibility for greater bilateral cooperation – across organisations and borders – when running and maintaining vital power infrastructure. This includes closer partnerships between TSOs and regional DSOs, and between a TSO and neighbouring TSOs.

- Easily expandable, start with what you have now
- A range of modules to support operations, operational and maintenance planning, emergency preparedness, investment and re-investment
- Ready to work with a digital twin system
- Built for machine learning
- Supports cross-organisation and cross-border cooperation

See Promaps™ Realtime in action
For tomorrow's secure energy supply, get in touch today. Let's start with the data sources you have right now.

Our credentials

20 years of expertise

Our technical team brings two decades of know-how to Promaps™ solutions

15+ years of R&D

Invested in developing and refining Promaps™ Realtime

5-year track record

Promaps™ Realtime has been used by utilities to increase energy supply reliability while saving time and money since 2016

4 industry accolades

Technology award nominations since 2014

Part of Vysus Group

A leading engineering and technical consultancy providing specialist asset performance and risk management service

" "

Promaps™ Realtime insights are the most sensitive results data we have in our entire organisation.

Large Nordic DSO

Get in touch in ✕

vysusgroup.com/promaps

United Kingdom - Aberdeen

Kingswells Causeway,
Prime Four Business Park,
Kingswells, Aberdeen,
United Kingdom
AB15 8PU

+44 1224 057 777

Norway - Bergen

Kokstadflaten 35,
Kokstad, Bergen,
N-5257, Norway

+ 47 40 00 35 00