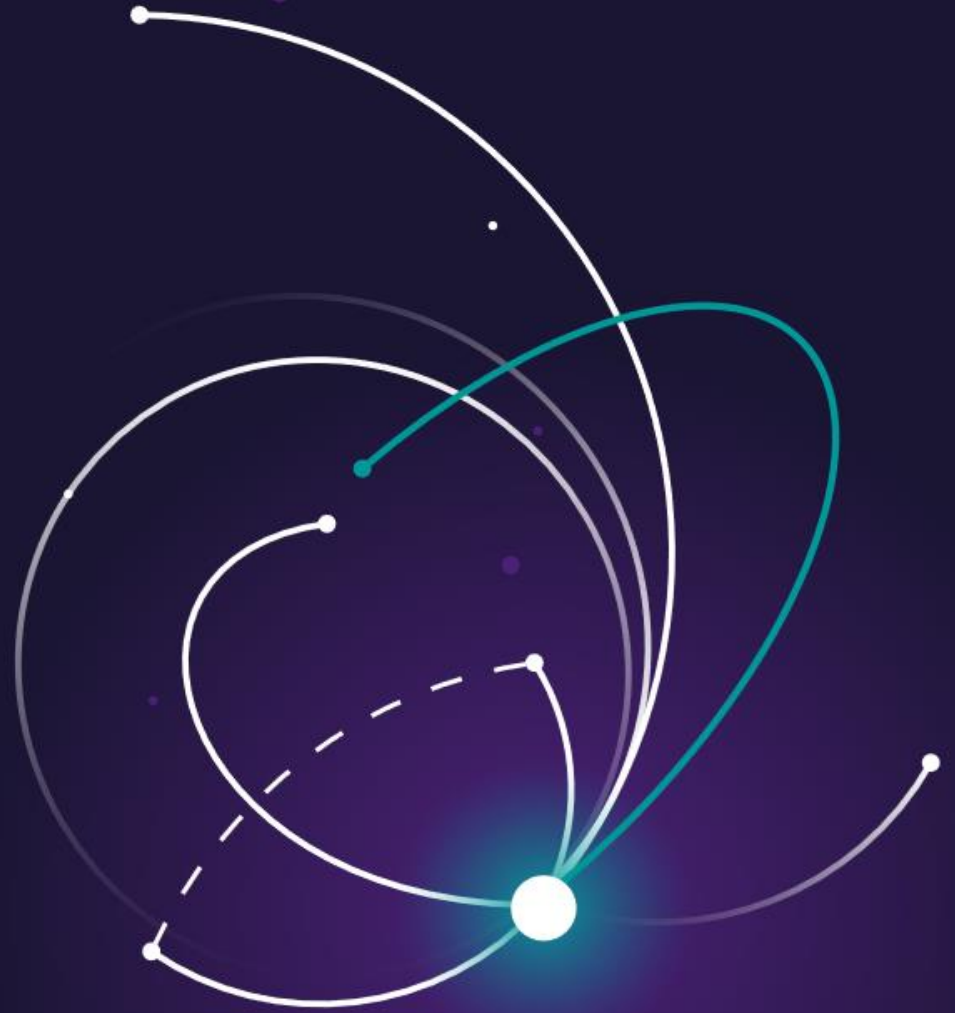
Steam Turbine & Generators

Machine Health Checks

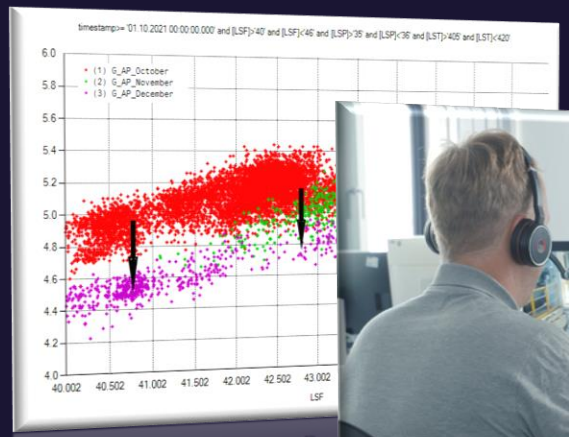
Presenters: Esther Parthon

14th September 2023 2023 | STG Customer Days @ NBG



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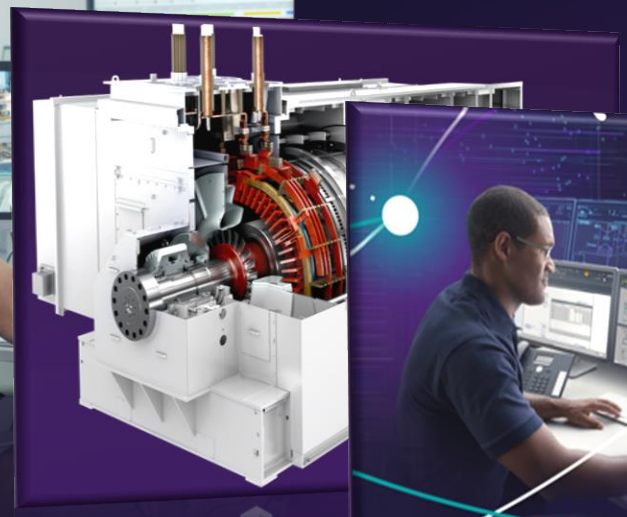
Machine **health checks**



Remote Diagnostic Service (RDS) and Technical Consulting



Remote Field Services



GenAdvisor™ Monitoring and Diagnosis System



Controls Solutions

Energy Management Dispatch Optimization



Power Diagnostics® Services (PDS) Live

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Remote Diagnostic Service (RDS) and Technical Consulting

Deviations found:

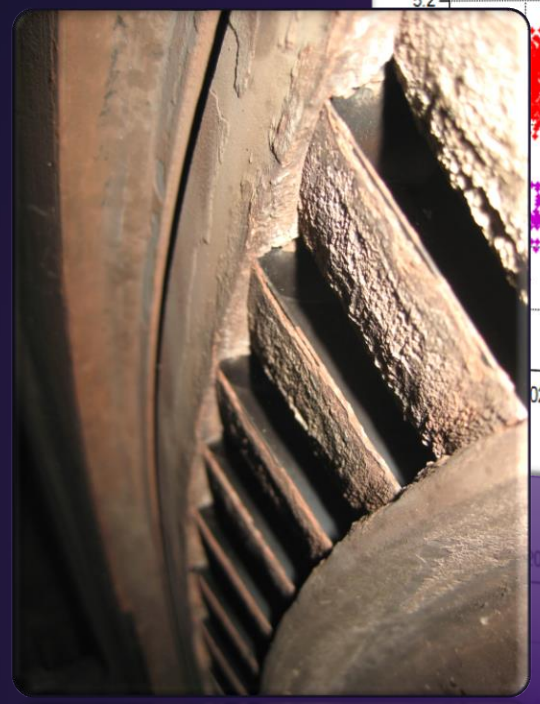
Indicator based analytics revealed early-stage performance degradation caused by blade deposits

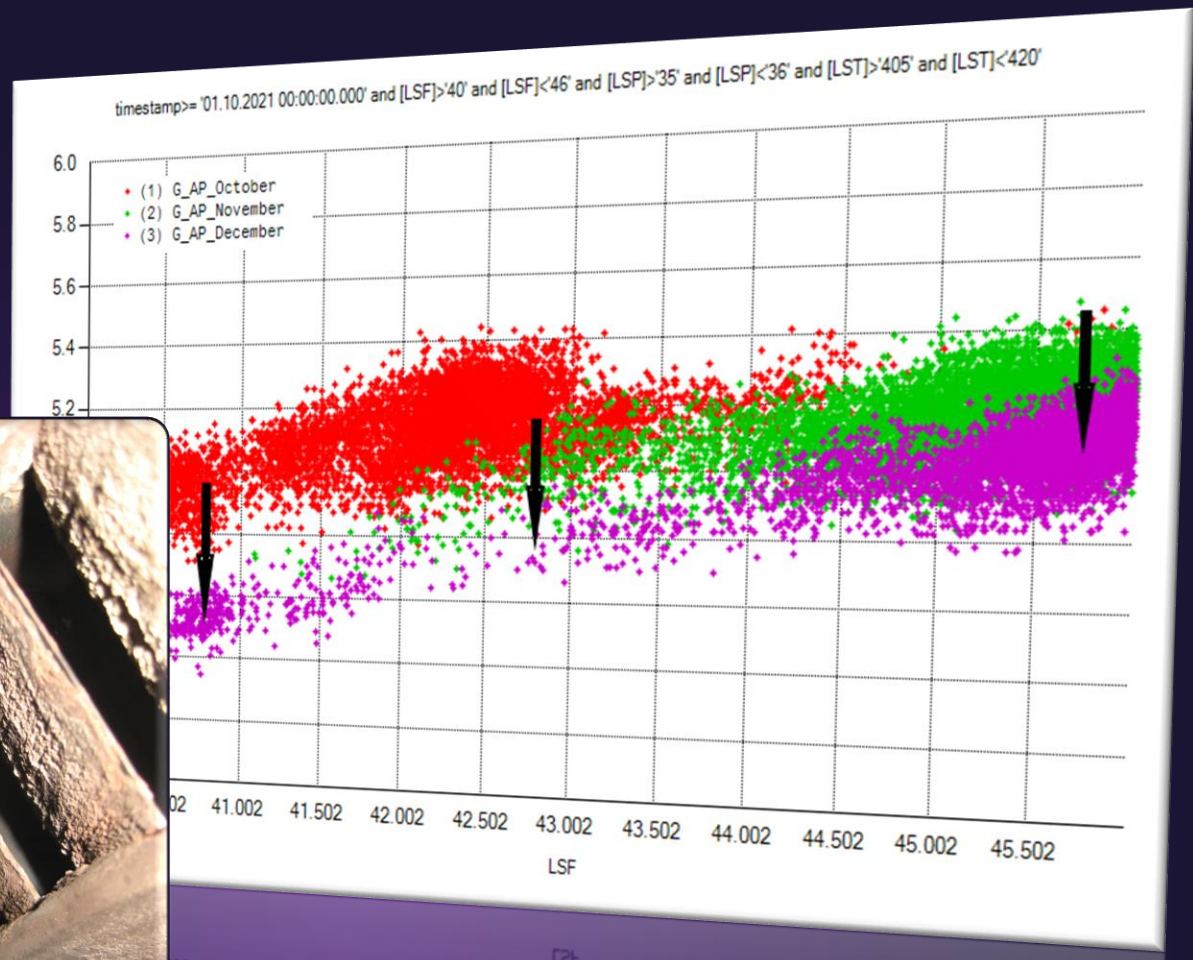
Operational consequences:

Production losses
Corrosion damage from aggressive deposits

Corrective action:

Online-wet-steam-washing during operation





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Remote Field Service



Challenge:

Deficient availability and expensive mobilization of Field Service Experts make unplanned shutdowns an unpredictable financial risk for operation of assets

Solution:

Efficient utilisation of Experts from anywhere in the world with Remote Field Service

Benefit:

Reduced financial impact through rapid access to experts, lower mobilization costs and accurate pre-assessment of unplanned shutdowns

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GenAdvisor™ Monitoring and Diagnosis System

Challenge:

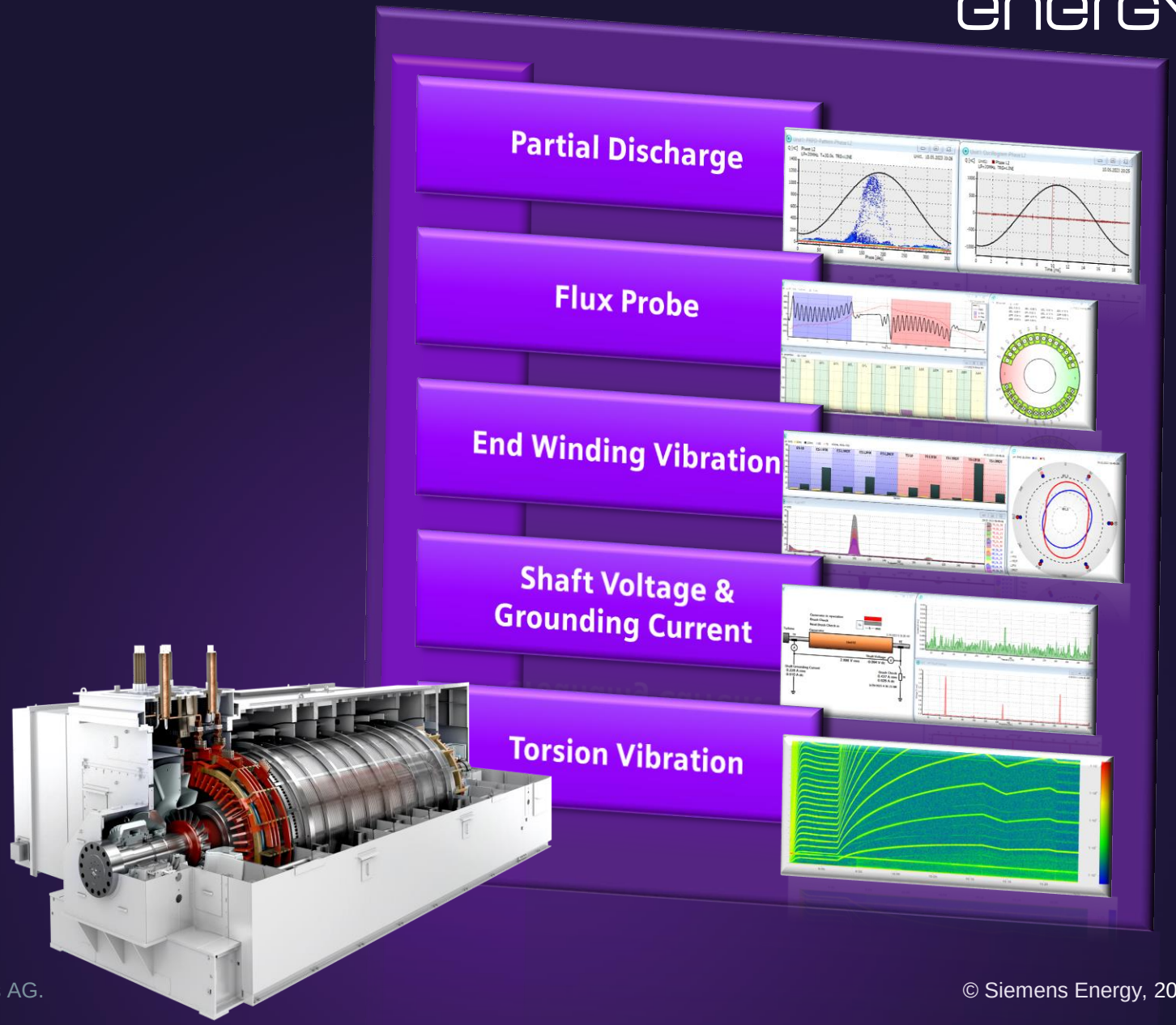
Increasing demand for predictive, condition-based maintenance strategies requires machine health information

Solution:

Customized online monitoring, predictive maintenance and digital data analysis for generators and high-voltage equipment

Benefit:

Advanced recommendations based on known generator condition can optimize and shorten planned outages by planning necessary repairs and parts orders in advance



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Controls Solutions



Challenge:

New markets, new rules, new concepts:
The energy landscape is changing faster than ever before.

Solution:

Future-proof control technology, proven technology of today with the innovations of tomorrow.

Benefit:

Optimized controls solution for customer. Serviceability with updates and upgrades.
Fast and easy access via remote and expert center with 24/7h hotline. Scalable Cybersecurity solution on customer demand.

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Energy Management Dispatch Optimization

Challenge:

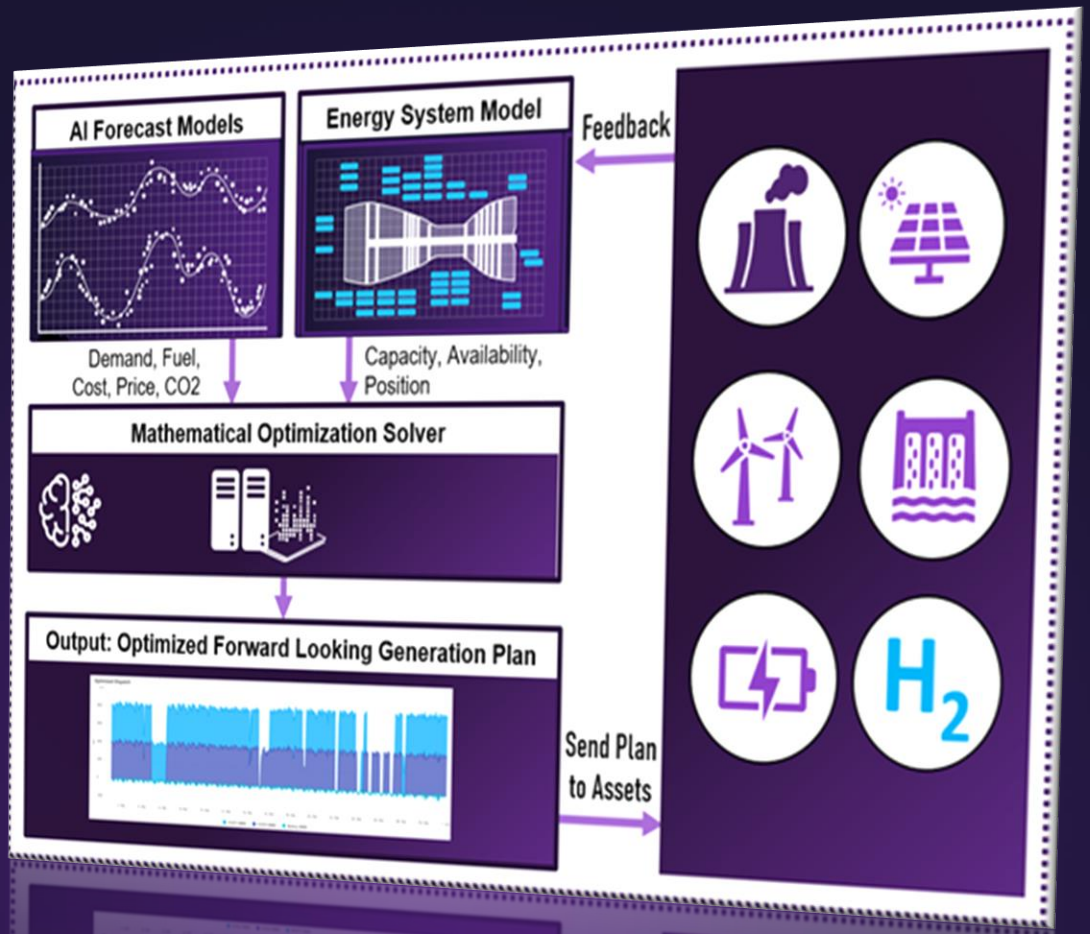
Making the right decision when industrial markets are becoming increasingly complex

Solution:

Refine the operation schedule of plants with the mathematical solvers of Dispatch Optimization

Benefit:

Satisfaction of demands with minimized production costs



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Power Diagnostics® Services (PDS) Live



Challenge:

Reducing cost by making decisions faster to stay ahead of the competition

Solution:

Real-time* Data Streaming including remote access to your machine operation data including customized KPIs

Benefit:

Mobile access to operational status of various sites and act fast on issues using real time information

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*Minimal but measurable delays caused by site specific and/or regional an/or technical limitations

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