# metroscope
## for power generation

Diagnosis company founded in 2018, now in France, Germany, and the USA with more than 60 units equipped. We monitor power generation on nuclear and thermal plants to improve their efficiency.

| **50+ GW** | **2,000 GWh** | **150,000 t** |
|---|---|---|
| monitored worldwide | Loss detected in 2020 | of $CO_2$ avoidable in 2021 |

## Digital Twins for maintenance

- Our technology offers live identification of early stage plants reliability problems with above 87% trust.

- It relies on a full digital twin of your plant to perform a root cause analysis of any abnormal behaviour.

- Our team brings together experts from industry and software design.

## Solid

**90% of diagnoses confirmed onsite by operators**

Differentiate effects of external condition and failures in your system

Get to the root cause using a failure library

Human-augmented AI: your expert validates the failures to make them trustworthy

## Clear

**Intuitive design and workflow automations**

No long-term training for operators

One window service for the whole team with a function of internal communication

Comment a particular diagnosis, share your work, export results and setup bricks to your favourite tools

## Cloud

**Secure and safe storage of your data**

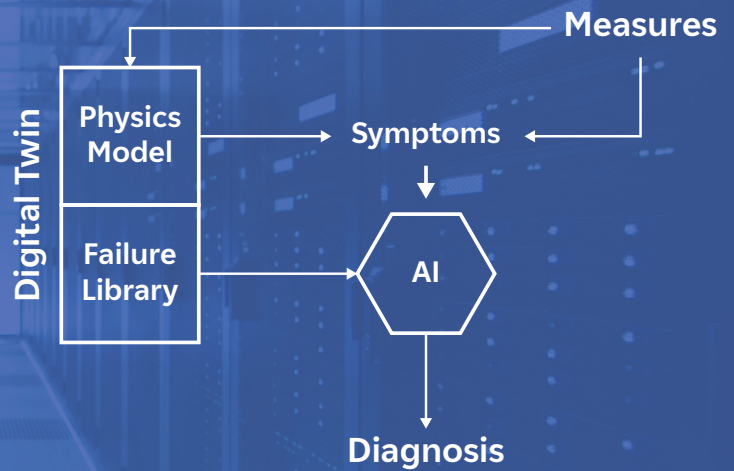Virtually unlimited performance to calculate diagnosis on several nodes in parallel

Seamless updates and bug fixes

Turnkey technical solution that makes deploying easy
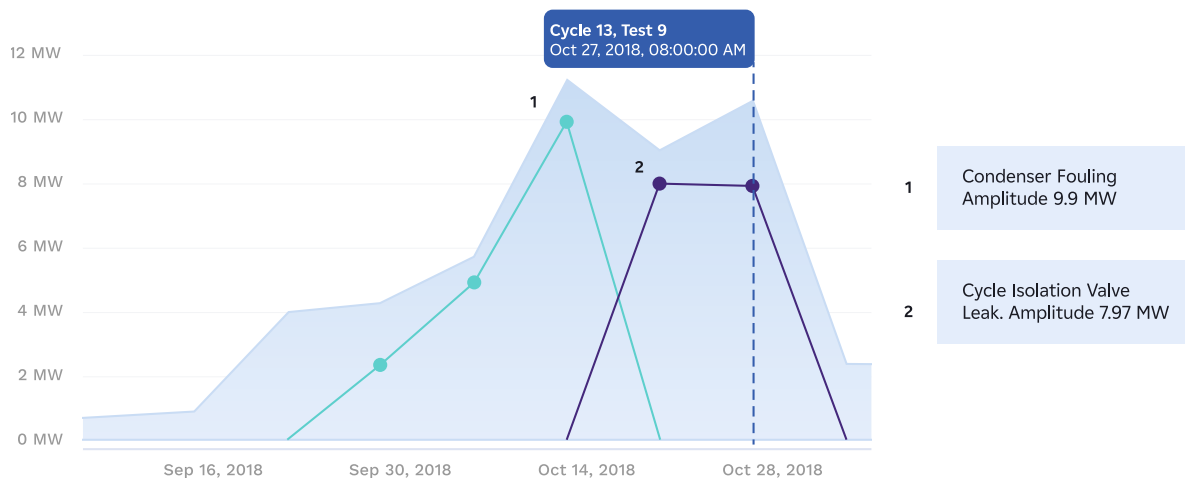
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Our technology makes use of your instruments and your experience to ensure you see everything happening in the plant.

The Metroscope approach uses a specially calibrated physics model to generate symptoms.

Then we use the failure library to find the full set of root causes.



## Visualize plant performance and root cause analysis  in one view



**Cycle 13, Test 9**
Oct 27, 2018, 08:00:00 AM

1 — Condenser Fouling Amplitude 9.9 MW

2 — Cycle Isolation Valve Leak. Amplitude 7.97 MW

## What customers say about us?

"We have already recovered 24 GWh/year of energy on Tihange 3 since the end of 2020. We still have a recoverable energy potential of the order of 97 GWh / year. All this thanks to Metroscope, our colleagues in operations, maintenance, our engineering, our centers of expertise and our management who had confidence in this beautiful project!"

**Sébastien Remarcle**, Expert Reliability Engineer, Engie Electrabel BU NUC (Tihange)

"Metroscope made my diagnostics task easy. It saves me time compared to point-by-point data analysis, where I had to interpret interconnections between variables. This is a real-time saver."

**Dimitri de Laet**, Performance Engineer, EDF - DPN, CNPE Chooz

**www.metroscope.tech**                                                                 **info@metroscope.tech**