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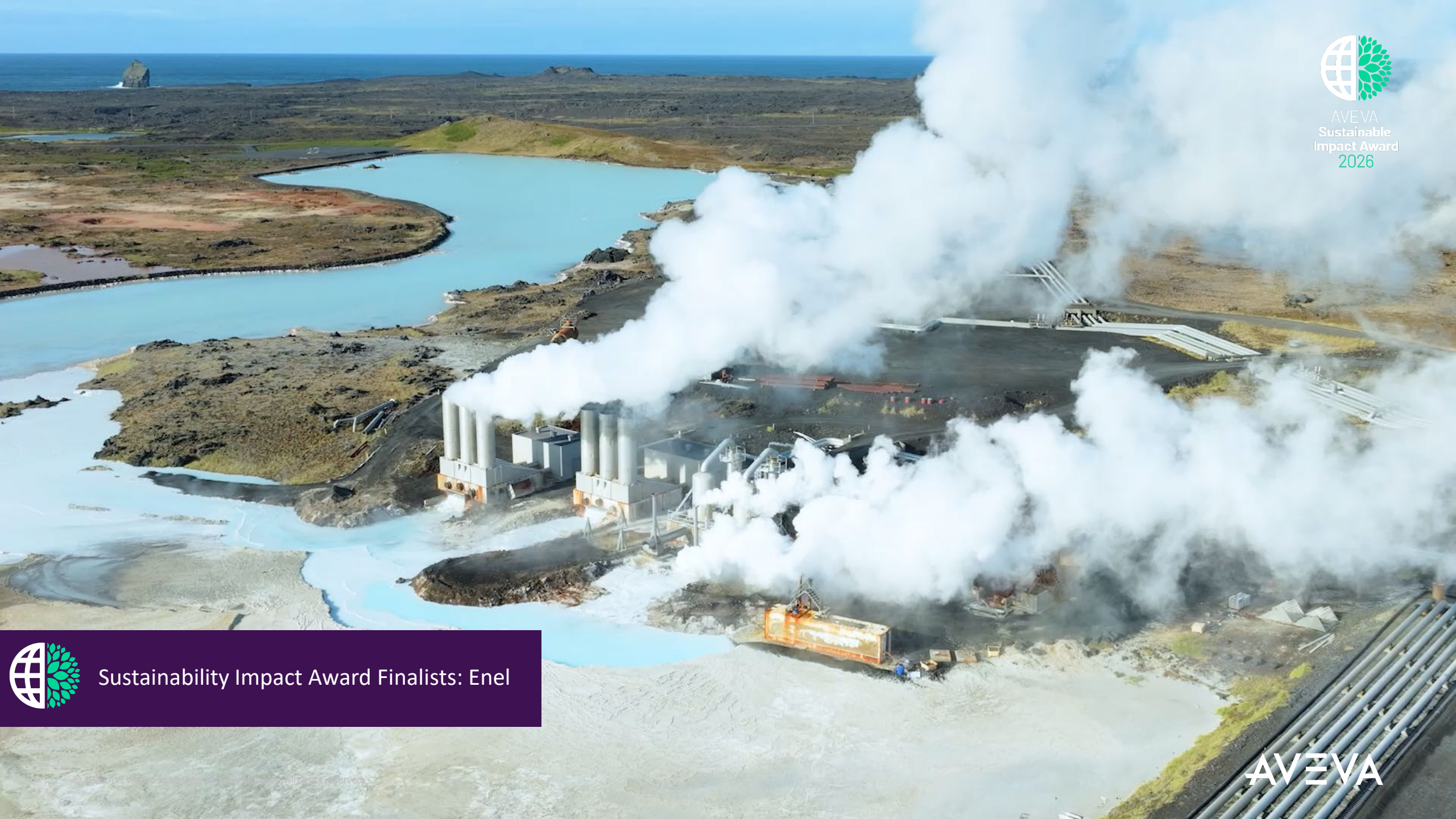
ACCELERATE INDUSTRIAL INTELLIGENCE

AVEVA WORLD MILAN, MAY 2026

Sustainability Impact Award Spotlight: Enel

Andrea Pica, Enel



Sustainability Impact Award Finalists: Enel

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POWER AND UTILITIES | GLOBAL

ENEL Green Power drives measurable sustainability gains through predictive diagnostics

Challenge

- Unplanned outages across 86 generation units in four countries disrupted reliability and operational continuity
- Anomalies went undetected, allowing minor issues to escalate into high-impact failures
- Sustainability impacts of maintenance activities were unclear, limiting visibility into avoided emissions and resource savings

Solution

- ENEL Green Power integrated AVEVA™ PI System™ and AVEVA™ Predictive Analytics to enable early anomaly detection across thermal and geothermal fleets, BVC Team helped to quantify sustainability impact over a consolidated approach

Results

- **Improved process reliability, reduced waste and maintenance activity, and lowered overall environmental footprint**
- **Strengthened a sustainability-first, data-driven culture by giving plants support to make earlier, lower-impact decisions**

409
cases

Real cases identified 2022-2025

3
TWh

Energy saved through early detection and mitigation

61
$ktCO_2e$

GHG Avoided Emission from Avoided thermal Replacement Power

3.1
$ktCO_2e$

GHG emission saved from additional green power generation

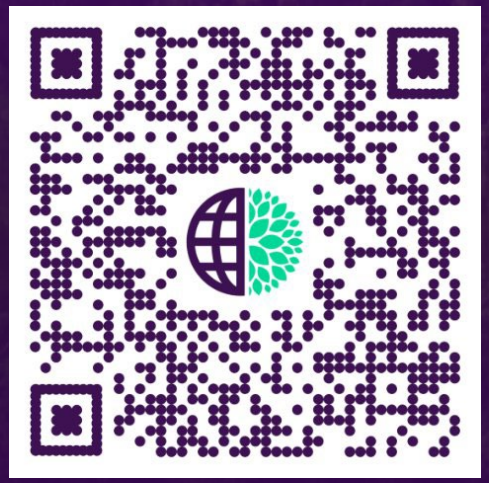
ENEL Sustainability Impact Assessment

ACTIVITY KEY POINTS

- AVEVA Predictive Analytics and PI Systems were deployed to monitor critical power generation assets for CCGT and geothermal Enel fleet in order to minimize **unplanned unavailability**
- Data-driven approach also support **sustainable operation** due to lower impact in terms of GHG emission of low-criticality incidents and can be valuable measure it
- Define the **strategy** of the analysis is crucial for the embedding of the calculation in the company's process
- **Bottom-up analysis** is feasible to show **direct and indirect GHG emissions** mitigating failure in early stage and avoid unplanned down time and low-efficiency replacement power and from reducing process waste, equipment scrap and on-site maintenance activities.
- **Top-down approach** is easier to be applied to the managed fleet and for large utilities can be sufficient to highlight the GHG impact that usually is the main contributor

AVEVA
Sustainable
Impact Award
2026

YOU will select the winner!



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to World Wildlife Fund Italy

And plant 2 trees
for every vote!

WWF

tree-nation

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