

GE Digital's Performance Intelligence with Reliability Provides Actionable Insights That Can Eliminate Data Gaps and Achieve Optimum Plant Performance

- *Performance Advisory solution combines the power of a flexible, thermal performance application with GE Digital's APM analytic power to help achieve optimal efficiency*
- *Software solution designed to provide real-time visibility, diagnostic analysis, quantified performance and financial impacts, thermal and data models and access to 340+ reliability blueprints*

SAN RAMON, Calif. - AUGUST 4, 2022 -- [GE Digital](#) today announced a software solution combining Performance Intelligence™ [with APM Reliability](#)™ designed to form a performance advisory solution combining real-time thermal performance data and analysis software with the power of analytics for strategic and data-driven decision making. Integrating the two together provides a highly flexible, easy to use problem-solving solution to maintain a thermal power generation plant or fleet at optimal efficiency.

Many fossil fuel plants are operating at levels below their original design, forcing them to cycle more and spend more operating hours well below their optimum efficiency and reliability levels. In response to factors like the need to look for ways to lower emissions, fluctuating fuel prices, stagnant power prices, and escalating operating costs, plant operations teams are being charged to act with greater speed and efficiency in order to maintain the assets' economic expectation.

Performance Intelligence integrates with APM Reliability™ to help plant personnel gain visibility to equipment health, assess and identify degradation and reliability issues, understand the impact to plant capability and financial performance, and empower teams to act with greater speed and efficiency.

The solution incorporates the power of 340+ GE and non-GE Digital Twin Blueprints from SmartSignal™ predictive analytics software, the analytics engine behind GE Digital's Predictive Maintenance solutions. Combined with Performance Intelligence with Reliability the solution is designed to enable fuel savings, productivity, and risk reduction.

According to Verdantix research, organizations with solely reactive and preventative maintenance strategies struggle to reach availability rates above 85%¹. The report states that using GE Digital's APM suite, Société Algérienne de Production de l'Electricité (SPE) increased its availability rate between 2% and 6% across its turbine fleet. The resulting higher capacity rates allowed the organization to remain competitive in the summer months and meet inflated production demands.² Performance Intelligence with APM Reliability is designed to help deliver a holistic problem-solving solution to maintain the plant at optimal efficiency with:

- Advanced thermal modeling across the entire load range with actionable recommendations
- Analytics covering the entire operating range of assets with actionable recommendations
- Fully integrated data streams into the work management process
- New analytics for economic predictions and "what-if" simulations

"Today, traditional fossil fuel generation is being fundamentally changed by the energy transition," said Linda Rae, General Manager of GE Digital Power Generation and Oil & Gas. "Changing operating modes for thermal plants requires leveraging software to reduce emissions by lowering fuel required for output and ensuring reliable power.

"Your thermal and equipment performance is only as good as the expertise behind the automation," Rae continued. "GE's extensive knowledge in power plant construction and design delivers reliable insights to help plant staff make data-informed decisions that can help to maximum performance."



Click on these links for more information about GE Digital's software solutions for [Power Generation](#) and [Oil & Gas](#).

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Media inquiries

Rachael Van Reen

GE Vernova | External Communications, Electrification Software
rachael.vanreen@ge.com
+1 678 896 6754