GE VERNOVA

GE Vernova unveils new AI-based software to advance industrial sustainability and operations goals simultaneously

- *New artificial intelligence-based software is designed to help industrial facilities meet their sustainability goals, all while helping to reduce costs and maximize profitability.*

Cambridge, Massachusetts: February 28, 2024 – GE Vernova announced today the release of Proficy® for Sustainability Insights, a new software solution designed to operationalize manufacturers' goals toward sustainability, while helping maximize productivity and profitability. By integrating operational and sustainability data, the artificial intelligence (AI) based software can help industrial companies use resources more efficiently and effectively across a plant or entire enterprise, as well as manage climate metrics required for regulatory compliance.

"Continued digitization is critical to operationalize industrial sustainability goals to help reduce costs, mitigate risk and improve resilience. Proficy for Sustainability Insights software can help deliver visibility into sustainability progress with persona-based dashboards for faster, more targeted troubleshooting, which will allow operations leaders, frontline managers, and operators to have clearer visibility into key drivers affecting performance," said **[Richard Kenedi](#), General Manager for GE Vernova's Proficy Software and Services**.

Decreasing Energy & Other Resource Usage
As an example, an automotive Tier 1 manufacturer in Europe recently used Proficy software to achieve 18% energy savings on its factory heating systems. The company looked to leverage their existing Proficy plant-floor SCADA with the analytics and dashboard innovation to optimize the heating and cooling in its many energy-intensive production facilities. The enhanced solution optimizes system setpoints based on outside air temperatures. Additionally, Proficy analytics capabilities identified a problem in the heating system control related to response to temperature setpoints as well as a problem with valves not closing correctly.

One of the software's key features is its ability to help reduce costs by monitoring electricity, natural gas, water, steam, and other utilities consumption data. Analytics can continuously detect excess or unnecessary usage, variability, and other waste that would otherwise go unnoticed. Additionally, Proficy for Sustainability Insights can help calculate benchmarks for each unique configuration of process, product SKU, and plant to understand current performance relative to expected consumption rates or best demonstrated performance.

Operationalizing Sustainability in Production Operations Context
The software helps solve the problem of providing process context needed to optimize resource utilization, increasing collaboration between operations and sustainability teams and operationalizing environmental sustainability goals. This can help decrease energy and other utility costs by modeling and optimizing usage in the context of daily operations events and priorities, along with detecting previously unrecognized patterns.

"*For a sustainability solution to be effective for industry, it must converge sustainability with operational excellence and digitization, ensuring that not only are energy consumption and raw material resources being optimized, but that plants maximize productivity, performance KPIs, and ultimately profitability,*" according to **Craig Resnick, Vice President, ARC Advisory Group**.

"*Proficy for Sustainability Insights provides this sustainability, operations, and digitization convergence by combining the proven Proficy software portfolio spanning the real-time plant floor, analytics and OT data management along with GE Vernova's expertise in energy to operationalize and optimize sustainable manufacturing and reduce resource consumption, carbon emissions, and utilities spend. This can maximize productivity and profitability while simultaneously progressing each customer's journey toward achieving sustainability, ESG and net zero goals,*" adds **Resnick**.

Proficy for Sustainability Insights can help enterprises integrate and manage sustainability performance and production key performance indicators (KPI) together, producing more holistic optimizations and creating visibility to trade-offs

and co-benefits that can reduce environmental impacts and costs. By translating the impact of day-to-day activities to Scope 1 and Scope 2 carbon emissions, water usage, or energy efficiency, manufacturers can begin to manage these as KPIs – just like quality, productivity, and throughput. Operations leaders can have insights for decision-making and planning, while operators and frontline leaders can manage priorities amid changing operating conditions.

Click on these links for more information about GE Vernova's Proficy for Sustainability Insights software and Manufacturing and Digital Plant solutions.

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More information about how GE Vernova software is accelerating a new era of energy can be found here.

About GE Vernova
GE Vernova is a planned, purpose-built global energy company that includes Power, Wind, and Electrification businesses and is supported by its accelerator businesses of Advanced Research, Consulting Services, and Financial Services. Building on over 130 years of experience tackling the world's challenges, GE Vernova is uniquely positioned to help lead the energy transition by continuing to electrify the world while simultaneously working to decarbonize it. GE Vernova helps customers power economies and deliver electricity that is vital to health, safety, security, and improved quality of life. **GE Vernova's Electrification Software business** is focused on providing a suite of software products and services to customers aiming to accelerate a new era of energy by electrifying and decarbonizing the energy ecosystem through intelligent and efficient data analytics, monitoring, and management.

GE Vernova's mission is embedded in its name – it retains its legacy, "GE," as an enduring and hard-earned badge of quality and ingenuity. "Ver" / "verde" signal Earth's verdant and lush ecosystems. "Nova," from the Latin "novus," nods to a new, innovative era of lower carbon energy. Supported by the Company Purpose, *The Energy to Change the World*, GE Vernova will help deliver a more affordable,

reliable, sustainable, and secure energy future. Learn more: [GE Vernova](#) and [LinkedIn](#).

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