

Press release

Orlando, October 11, 2021

Siemens Energy installs world's first leased rapid response transformers allowing a large generating facility to return to service

- Siemens Energy's on-demand mobile resilience transformer allows equipment to be leased out and deployed rapidly to maximize grid resilience while mitigating the impacts of long-term outages or for emergency response from a failed transformer.
- Rapid response generator step-up (GSU) transformers are a temporary solution that are designed to reestablish power with three compact and versatile single-phase units in case of a transformer failure. Transport and installation is capable of being completed within weeks, instead of a customer waiting 9 to 12 months for a replacement GSU transformer to be manufactured and delivered.
- Solution offers multi-voltage flexibility to be installed as a plug-and-play option to fit almost any generation and transmission voltage arrangement.

Siemens Energy announced today the successful delivery and installation of three single phase Pretact® GSU Sensformer™ transformers that were deployed to provide a solution in response to a failed conventional transformer at a combined cycle power plant.

The Pretact transformers are designed to serve as replacement equipment in the event of transformer outages. These are multi-voltage, modular transformers that can be deployed anywhere and configured to match customer requirements using biodegradable insulating fluids that reduce environmental risks during transport and operation. They also offer smart technology that transmits real-time data to a cloud-based storage, analytics and visualization platform to allow for performance optimization.

Siemens Energy is leasing the transformers to the facility, which made it possible for the power plant to return to service in less than two months from a forced outage caused by a failure of their existing, conventional GSU transformer. The Pretact Sensformers will be in service until Siemens

Energy delivers a new, permanent replacement transformer. The project is part of the Pretact transformer program that aims for rapid deployment of equipment to minimize outage times.

Society depends on reliable electricity, as long-term power interruptions can have disastrous consequences. Siemens Energy is focused on improving grid resiliency by offering mobile plug-and-play units that can quickly restore power after a failure at either a substation or generating facility or to avoid disruptions during grid maintenance and upgrades. Compared to conventional transformer replacements, which might not be available for 9 to 12 months after an outage, the easy-to-install Pretact technology allows for rapid reinforcement of a power grid in an emergency or due to unexpected events, as well as during seasonal peak loads or when networks expand.

Wade Lauer, senior vice president of Siemens Energy's Transmission division in North America said, "This is the first time a multi-voltage GSU has been leased to customers as a flexible transformer replacement option. Being able to rapidly deploy innovative replacement equipment is key to enhancing grid resiliency here in the U.S. so that we can help our customers keep the lights on."

Scott Gray, operations manager for Siemens Energy Transformers USA said, "Upon notification of the failure the Siemens Energy team was able to confirm a technical match, negotiate terms, mobilize to the storage location, and prepare the units for shipment within 2-1/2 weeks. The equipment was delivered to the customer site the next week, and was fully assembled, oil filled and tested in less than two weeks from mobilization to site."

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This press release and a press picture / press pictures / further material is available at <https://press.siemens-energy.com/na/en/pressrelease/siemens-energy-installs-worlds-first-leased-rapid-response-transformers-allowing-large>

For further information on Pretact® transformers, please see <https://www.siemens-energy.com/global/en/offerings/power-transmission/portfolio/transformers.html>

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Siemens Energy is one of the world's leading energy technology companies. The company works with its customers and partners on energy systems for the future, thus supporting the transition to a more sustainable world. With its portfolio of products, solutions and services, Siemens Energy covers almost the entire energy value chain – from power generation and transmission to storage. The portfolio includes conventional and renewable energy technology, such as gas and steam turbines, hybrid power plants operated with hydrogen, and power generators and transformers. More than 50 percent of the portfolio has already been decarbonized. A majority stake in the listed company Siemens Gamesa Renewable Energy (SGRE) makes Siemens Energy a global market leader for renewable energies. An estimated one-sixth of the electricity generated worldwide is based on technologies from Siemens Energy. Siemens Energy employs more than 90,000 people worldwide in more than 90 countries and generated revenue of around €27.5 billion in fiscal year 2020. www.siemens-energy.com.