580 kWh energy storage solution

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New Standard Service Rates for Eversource and United Illuminating (UI) customers, covering the period from January through June 2025, have been announced. Customers are encouraged to check the rate board for up-to-date supply rate options at Energize CT

Saft, world leader in the design, development and manufacture of high-tech batteries for industry, is focusing attention at ESNA on its Intensium® Max containerized Li-ion battery system, now capable of delivering an industry leading 1.8 MW peak power in a 20 foot container. The upgraded Intensium® Max 20P High Power (IM 20P) is ideally suited to address the ramp rate challenges of renewable energy resources, especially large scale solar photovoltaic (PV) installations, by ensuring the safe, controlled ramp-down of output essential to maintain grid stability.

Visitors to Booth 201 at ESNA will be able to find out more about Saft’s complete Intensium® Max range of containerized solutions covering the full spectrum of energy storage needs including high energy (up to 1000 kWh) and medium power that offers a combination of 580 kWh and 1.1 MW peak power. Saft experts will also be on hand to update on the latest worldwide deployments of the company’s grid scale energy storage systems.

Energy storage systems offer the proven capability to address ramping issues by providing the power support needed for a smooth and controlled ramp-down of PV output, allowing voltage and frequency stability to be maintained. A typical MTR might call for a controlled reduction in output of 10 percent a minute, so that a rapid 70 percent loss of output is rendered over 7 minutes.

Saft has focused on further increasing the high power capability of its Intensium® Max ready-to-install containerized solution that provides a complete, fully integrated battery system comprising Li-ion battery modules, power management and control interfaces, air conditioning and safety devices. This containerized solution for energy storage systems has already achieved considerable commercial success worldwide in medium to large scale on-grid solar and wind power installations.

The key customer benefit of the IM 20P is that it offers high peak power without the need to increase the energy capability (MWh) and consequent size of the installation. The result is a very competitive solution that enables Saft to meet the application’s required power profile within a smaller footprint and volume.

The 3000 A version of the IM 20P is fully engineered and will be delivered in the near future for an active

project. Saft is already working on the design and development of future versions capable of providing even higher power.

Enel, through its subsidiary Enel Green Power Chile Ltda. has started operations at the world"s first 100% emission-free "plug-and-play" commercial-sized micro-grid powered by solar PV as well as hydrogen-based and lithium-based storage.

The facility is currently meeting part of the energy needs of the camp that hosts over 600 technicians working at the company"s geothermal plant Cerro Pabell?n, located in Ollag?e in the Antofagasta region.

Antonio Cammisecra, Head of Enel"s Global Renewable Energies Division Enel Green Power commented: “This groundbreaking project shows that it is possible to build fully renewables-powered micro-grids capable of delivering efficient, zero-emission energy without interruptions. With this project, we have achieved a new milestone in our R& D work with the aim of creating systems that facilitate energy access to isolated areas, in line with our commitment to the UN Sustainable Development Goal number 7, ensuring universal access to affordable and clean energy.”

The micro-grid is a pioneering innovation project developed by Enel with the technical support of EPS (Electro Power Systems), technology pioneer in energy storage systems and micro-grids. The facility relies on a Hybrid Energy Storage System (HyESS) which comprises a 125 kWp solar PV installation backed by a 450kWh hydrogen storage system and a 132kWh lithium storage system.

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