



Sanaa manufacturing energy storage

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Located in southern Okayama Prefecture, Tamano City neighbors the shores of the Seto Inland Sea and is blessed by the mild climate and lush natural scenery. Once home to the largest shipbuilding yards in Japan, Tamano City is relatively protected from earthquakes and other natural disasters. Its main port, Uno Port, is the major gateway to Setouchi Islands as well as a venue for the international art festival, Setouchi Triennale.

Hello, Tamano City !An idyllic port city that was once home to Japan's shipbuilding industryTo accelerate the shift to renewable energy, PowerX is committed to delivering energy storage solutions, a quintessential part of the new power infrastructure, as well as creating a symbiosis between nature and industry. We envision Power Base as the starting point of a sustainable, tech-driven future, and we look forward to building that future with the people of Tamano City.

5GW battery assembly plant in JapanPilot production starts in 2023 and product delivery by Spring 2024Power Base is PowerX's first ground-up battery production site in Japan with 5GWh of annual capacity. With a pilot production scheduled in 2023 and product delivery in early 2024, Power Base, featuring automated production lines and cutting-edge research laboratories, will set new standards for manufacturing._

NREL research is investigating flexibility, recyclability, and manufacturing of materials and devices for energy storage, such as lithium-ion batteries as well as renewable energy alternatives.

NREL's advanced manufacturing researchers provide state-of-the-art energy storage analysis exploring circular economy, flexible loads, and end of life for batteries, photovoltaics, and other forms of energy storage to help the energy industry advance commercial access to renewable energy on demand.

NREL's novel roll-to-roll laser-processing methods improve the performance of energy storage materials and manufacturing. NREL's on-site laser ablation capabilities emulate in-line microstructuring of energy materials, such as lithium-ion battery electrodes.



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