WORLD NEWS

NTU Singapore and Trinasolar Collaborate to Advance AI-Based Smart Energy Storage Solutions

SINGAPORE, Feb. 25, 2025 /PRNewswire/ -- **Nanyang Technological University, Singapore (NTU Singapore)** and **Trinasolar** , a global smart photovoltaic and energy storage solutions provider, are collaborating to develop smart energy storage systems (ESS) to enhance efficiency, reliability and economic viability in renewable energy applications.

(https://mma.prnewswire.com/media/2627078/Signing_Ceremony.html)

As solar, wind and hydrogen energy sources expand globally, energy storage technologies will play a key role in ensuring grid stability and optimizing energy use.

Led by **the Energy Research Institute @ NTU (ERI@N)** , the collaboration aims to develop AI-based tools that can improve investment decisions, enhance system stability through intelligent energy forecasting, and deploy intelligent optimization algorithms for diverse energy storage applications.

By combining Trinasolar's expertise in PV and ESS technology with NTU's leading research expertise in energy innovation, the collaboration aims to address key challenges in smart energy storage through **three strategic focus areas** :

1. Make smart investment decisions
2. Ensure system stability with AI-based forecasting
3. Intelligent optimization algorithm

NTU and Trinasolar formally cooperate through the signing of a technology research cooperation agreement.

NTU Vice President (Industry), Professor Lam Khin Yong , highlighted the importance of academia-industry collaboration: “This collaboration between NTU and Trinasolar reflects our commitment to advancing energy technologies that will support global efforts towards a low-carbon future. NTU has strong industry connections and a track record of successful industry collaboration on renewable energy grids. This facilitates the commercialisation of intellectual property developed under our joint partnership. By aligning cutting-edge research with industry needs, we aim to develop impactful solutions that will help build a sustainable and resilient energy future.”

Helena Li , Executive Chairwoman, Trinasolar, emphasized the company's commitment to collaborative research and development to create cutting-edge solar solutions: "As one of the world's leading manufacturers of PV and ESS solutions with 30 world records, Trinasolar brings expertise in global solar energy storage market trends and cutting-edge technologies. We are proud to partner with NTU, a leading research institution renowned for its academic excellence. This initiative aims to deliver tangible value to energy storage customers, including cost optimization, improved return on investment (ROI) and enhanced system reliability."

Trinasolar and NTU Singapore are committed to deepening collaboration in AI-enabled energy storage applications and developing innovative solutions to meet the growing needs of the renewable energy industry.