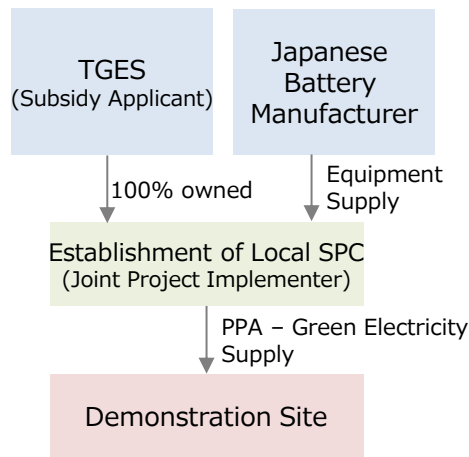


The Global South Future-Oriented Co-Creation Project: Selected Companies (2nd Application)

Project Name	Thailand / Demonstration Project for Decarbonization Using a Large-Scale BESS + PV System		
Company Name	Tokyo Gas Engineering Solutions Co., Ltd.	Company Size	SME · Other than SME
Category	Category 1 · Category 2 · Category 3	Project Field	GX · DX · Economic Security
Total Project Expenses/Total Subsidy Expenses/Subsidy Application Amount	3.7 billion yen / 3.7 billion yen / 1.8 billion yen		

Project Outline 【Project Scheme】



【Outline】

This project introduces in Thailand a large-scale Battery Energy Storage System (BESS) combined with photovoltaic (PV) power generation that is well established in Japan, under a Power Purchase Agreement (PPA) scheme. PPA refers to a long-term electricity sales contract under which electricity generated by facilities owned by a power producer is supplied to an end user, who pays only for the electricity actually consumed.

Through this demonstration project, the effectiveness of the system will be verified, while operational data will be utilized to improve operations and support product development, with the aim of commercialization. The project will contribute to the decarbonization of industrial facilities and Thailand as a whole. In addition, this project is consistent with the Thai government's energy policy, which promotes the expansion of renewable energy sources, and also contributes to the revitalization of the country's industry and economy.

【Key Technologies and Demonstrations】

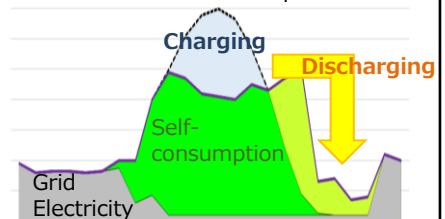
By combining high-efficiency PV systems capable of withstanding hot and humid environments with BESS made in Japan, optimal utilization of renewable energy in response to fluctuations in electricity demand and solar irradiation is achieved. In this demonstration project, the degradation characteristics of BESS under hot and humid conditions, as well as the effectiveness and optimal operating conditions of integrated PV + BESS operation, will be verified based on actual operational data.

【Schedule】

- July 2026 : Commencement of construction
- First half 2028~ : Commencement of operation; analysis of operational data; identification of issues and implementation of improvement measures
- March 2029 : Completion of the demonstration project



【Examples of Large-Scale BESS Installations in Japan】



【Image of BESS Charging and Discharging】

Resulting benefits to Japan

【Points that this project contributes to innovation creation in Japan】

1. By supporting the overseas expansion of Japanese battery manufacturers, the Japanese-affiliated BESS market in Thailand will expand, contributing to job creation for Japanese BESS-related companies in both Japan and Thailand.
2. The expansion of PPA projects utilizing large-scale BESS + PV systems in Thailand will lead to employment creation for Japanese-affiliated business operators.
3. Through the introduction of large-scale BESS + PV systems, the project will contribute to the decarbonization of customer companies, namely Japanese companies operating in Thailand, while also enhancing their brand value and competitiveness.