SANDEN Global News
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SANDEN(THAILAND) CO.,LTD Launches “Green Energy @ STC” – Driving Sustainability forward

August 8, 2025 , SANDEN (THAILAND) CO., LTD. Proudly celebrated the official launch of its **“Green Energy at STC”** initiative, marking a major milestone in the company’s journey towards sustainability, environmental stewardship , and corporate social responsibility.

This initiative aligns with the company’s environmental policy and supports the Thai government’s Sustainable Development Goals (SDGs), focusing on reducing environmental impact, increasing renewable energy usage, and improving resource efficiency

Key projects include :

1) Project -Solar Rooftop Installation on the main production building and car parking area to reduce electricity consumption and lower carbon emissions.

Investment & Capacity
Investment/Maintenance fee : Cost: 0 Baht
(Fully funded by the supplier - Dingli & SF Solar Energy Co,Ltd. for 15 years)

Capacity : Phase 1- Main production: 1,364 kWp
Phase 2- Car parking : 528 kWp
Total Installed Capacity: 1,892 kWp

Challenge during the project launch ;
During the launch phase, we encountered several challenges including:

- Internal coordination across departments to align project timelines and responsibilities
- Technical adjustments to integrate the solar system with existing infrastructure
- Navigating local regulatory requirements for renewable energy installations

Despite these challenges, the collaboration among STC members and our implementation partners was instrumental in overcoming them

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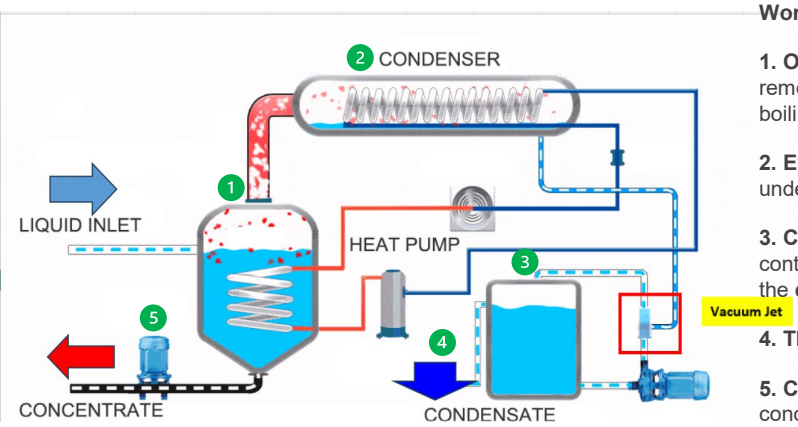
Key projects include :

2) Project-Factory Wastewater Treatment System- Designed to meet environmental standards, reduce treatment costs, and conserve water resources.



Workflow Diagram

1. Oil Removal: Wastewater enters the system, and an oil skimmer removes some oil before the water flows into the **liquid inlet** of the boiling tank.

2. Evaporation: The wastewater is heated using a heat pump under **vacuum pressure**, which lowers the boiling point.

3. Condensation: The steam rises to the **condenser**, where it contacts cold coils, condenses into clean water, and flows into the **condensate tank**. A **vacuum jet** helps draw the water in.

4. This clean water can be reused for cleaning or irrigation.

5. Concentrate Discharge: After the boiling cycle, the remaining concentrated wastewater is discharged and sent for further treatment.

The treated water can be used for watering plants. STC will continue to implement plans to maximize water reuse as much as possible

These projects reflect the company's belief that 'cost reduction' and 'environmental conservation' can move forward hand in hand -**create long-term value and sustainability** for our company, our business partners, and our planet

Message of Appreciation

We sincerely thank all STC members for your dedication and collaboration in launching these projects, and look forward to your continued contributions as we move forward

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Future Outlook

The "Green Energy @ STC" project is a practical initiative by SANDEN (THAILAND) CO., LTD. toward a sustainable future.

With solar rooftop installations, the company expects to reduce electricity costs by approximately 3.36 million Baht annually

and cut greenhouse gas emissions by 750 tons per year.

The introduction of a wastewater treatment system enables water reuse within the facility, contributing to more efficient resource utilization.

These efforts also hold potential for future technological expansion and deployment at other sites.

Through these initiatives, SANDEN (THAILAND) CO., LTD. aims to contribute to the realization of a sustainable mobility society and address global environmental challenges.

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