



RESOURCE EFFICIENT
AND CLEANER PRODUCTION

DAI DUNG GREEN MATERIALS
CORPORATION
HIEP PHUOC INDUSTRIAL PARK

The **Global Eco-industrial Parks Programme - Country level intervention in Vietnam (2020-2024)**, funded by the Swiss State Secretariat for Economic Affairs (SECO) and implemented by the United Nations Industrial Development Organization (UNIDO) in collaboration with the Ministry of Planning and Investment (MPI), aims to enhance the environmental, economic, and social performance of industrial parks and zones in Vietnam. This initiative promotes the eco-industrial park approach in selected pilot industrial parks and supports the development of relevant national policies.

The project supports over 100 tenant companies in pilot industrial parks in implementing Resource Efficient and Cleaner Production (RECP) practices. These efforts aim to enhance the quality of life for workers and promote sustainable production.

COMPANY INFORMATION



Company Name: DAI DUNG GREEN MATERIALS CORPORATION
Address: Lot D7b-1, No 9 street, Hiep Phuoc Industrial Park, Hiep Phuoc Commune, Nha Be District, Ho Chi Minh City
Product: Unburnt bricks (aggregate concrete bricks)
Production capacity: 60 million bricks/year
Number of workers: 24 people
Total number of working days: 296 days/year

PRODUCTION PROCESS



TYPES OF WASTE

Wastewater

- » Wastewater mainly domestic one with a flow of about 2 m³/day. It is allowed to directly connect to the centralized wastewater treatment plant of Hiep Phuoc Industrial Park.

Solid waste

- » Raw material dust, cement dust, packaging materials... in a small quantity. Industrial waste and domestic waste are sorted, collected, transported, and handled by an Environmental Service Company



THE PROJECT'S INTERVENTIONS AND IMPACTS

The project has supported by:

- » Conducting capacity building training on RECP and Industrial Symbiosis for company technical staff
- » Conducting RECP assessment by project experts
- » Proposing solutions to improve resource efficiency and production efficiency of companies

Proposed by the project

<ul style="list-style-type: none"> ■ Strengthening internal management 	<ul style="list-style-type: none"> ■ Reducing equipment operating time during peak hours
<ul style="list-style-type: none"> ■ Enhancing the inspection and repairing of compressed air leaks 	<ul style="list-style-type: none"> ■ Connecting 3 air compressors
<ul style="list-style-type: none"> ■ Using air conditioning more reasonably 	<ul style="list-style-type: none"> ■ Changing 150W lights to 50W LED lights
<ul style="list-style-type: none"> ■ Investing in LED lights with integrated solar panels 	<ul style="list-style-type: none"> ■ Investing in a solar power system
<ul style="list-style-type: none"> ■ Investing in equipment to recover cement dust deposited on the factory floor 	

Solution type	Potential benefits	Implemented results
 <p>Save energy</p>	<p>9 solutions to reduce electricity consumption 421,066 kWh/year; (equivalent to 338.58 t CO₂/year), Saving 1,188 million VND/year (50,553 USD/year)</p>	<p>4 solutions to reduce electricity consumption 57,880 kWh/year (equivalent to 47t CO₂/year); Saving 121.65 million VND/year (5.176 USD/year)</p>
 <p>Other benefits</p>	<ul style="list-style-type: none"> ■ Raising awareness among company managers and workers regarding the use of electricity and water ■ Compressed air is better controlled ■ Chemical safety, Improve working environment ■ RECP solutions are continuing to be researched to evaluate technical feasibility 	