



**RESOURCE EFFICIENT
AND CLEANER PRODUCTION**

**CHINFON CEMENT COMPANY BRANCH -
HIEP PHUOC CLINKER GRINDING PLANT**
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: CHINFON CEMENT COMPANY BRANCH - HIEP PHUOC CLINKER GRINDING PLANT

Address: Lot A7, Hiep Phuoc Industrial Park, Hiep Phuoc Commune, Nha Be District, Ho Chi Minh City

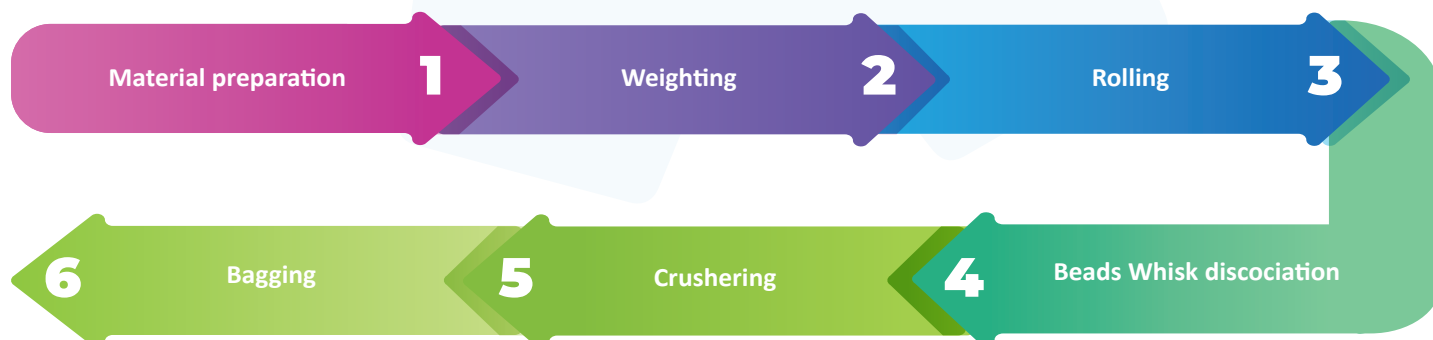
Product: Cement PCB40, PC50

Production capacity: 400,000 to 794,000 tons/year

Number of workers: 106 people

Total number of working days: 365 days/year

PRODUCTION PROCESS



TYPES OF WASTE

Wastewater

- » The Company's wastewater is mainly domestic one with a flow of about 5 m³/day. It is allowed to directly connect to the centralized wastewater treatment plant of Hiep Phuoc Industrial Park

Solid waste

- » Industrial solid waste includes 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"> ■ Investing in a centralized energy monitoring system 	<ul style="list-style-type: none"> ■ Installing multi-function electricity meters
<ul style="list-style-type: none"> ■ Replacing the existing crushing motor with a new high-performance motor 	<ul style="list-style-type: none"> ■ Replacing 2 old press motors with new high-performance motors
<ul style="list-style-type: none"> ■ Replacing the fan motor with a new high-efficiency one 	<ul style="list-style-type: none"> ■ Installing inverter for fan motor
<ul style="list-style-type: none"> ■ Enhancing the inspection and repairing of compressed air leaks 	<ul style="list-style-type: none"> ■ Investing in an 37kW air compressor
<ul style="list-style-type: none"> ■ Investing in a solar power system 	<ul style="list-style-type: none"> ■ Regularly checking for and repairing any leak throughout the water distribution system
<ul style="list-style-type: none"> ■ Setting appropriate flow for faucets depending on water use purposes (WC, hand washing, cafeteria/canteen), if necessary 	<ul style="list-style-type: none"> ■ Regularly maintaining the entire water system including faucets, pipes in toilets and water consuming equipment
<ul style="list-style-type: none"> ■ Providing sufficient training to raise awareness and skills on water efficiency for staff working at restroom, kitchen and garden area 	<ul style="list-style-type: none"> ■ Establishing an effective company-wide water consumption monitoring 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>	<ul style="list-style-type: none"> ■ 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) 	<ul style="list-style-type: none"> ■ 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>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 	