



RESOURCE EFFICIENT  
AND CLEANER PRODUCTION

FLEMING INTERNATIONAL VIETNAM COMPANY  
AMATA 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:** FLEMING INTERNATIONAL VIETNAM COMPANY  
**Address:** Lot 102/2, No 5 Street, Amata Industry Park, Long Binh ward, Bien Hoa city, Dong Nai province  
**Key Product:** Scented candles for export  
**Production capacity:** Paraffin Wax: 18,382 tons /year  
Fragrance + Chemicals: 864 tons/year  
**Number of workers:** 600 people  
**Working day:** 312 days/year

PRODUCTION PROCESS



## TYPES OF WASTE

### Wastewater

» Mainly domestic wastewater and wastewater in the production process

### Solid waste

» Carton, nylon, hard plastic, barrel plastic, barrel steel and packaging




## 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"> <li>▪ Optimizing the Transformer system</li> </ul>      | <ul style="list-style-type: none"> <li>▪ Installing ground compensation capacitor for transformer</li> </ul> |
| <ul style="list-style-type: none"> <li>▪ Fixing compressed air leakage</li> </ul>          | <ul style="list-style-type: none"> <li>▪ Reducing setting pressure for air compressor to 6.0 bar</li> </ul>  |
| <ul style="list-style-type: none"> <li>▪ Installing inverter for air compressor</li> </ul> | <ul style="list-style-type: none"> <li>▪ Reinstalling clear plastic sight glass for cooling tower</li> </ul> |
| <ul style="list-style-type: none"> <li>▪ Investing a new chiller system</li> </ul>         | <ul style="list-style-type: none"> <li>▪ Reducing hand wash faucet flow to 6 liters/min</li> </ul>           |
| <ul style="list-style-type: none"> <li>▪ Fixing water leakage</li> </ul>                   |  |

| Solution type   | Potential benefits  | Implemented results   |
|---|---|---|
| <br>Save energy    | <b>9 solutions</b> to reduce electricity consumption 196,286 kWh/year (equivalent to 157.83 t CO <sub>2</sub> /year), to save 423.77 million VND/year (18,032 USD/year)   | <b>2 solutions</b> to reduce electricity consumption 6,617 kWh/year (equivalent to 3.85 t CO <sub>2</sub> /year), to save 40.78 million VND/year (1,735 USD/year) |
| <br>Save water     | <b>2 solutions</b> to save 1,825 m <sup>3</sup> water/year; Save 31.2 million VND/year (1,327 USD/year)   | <b>2 solutions</b> to save 1,825 m <sup>3</sup> water/year; Save 31.2 million VND/year (1,327 USD/year)   |
| <br>Other benefits | <ul style="list-style-type: none"> <li>▪ Raising awareness among company managers and workers regarding the use of electricity and water</li> <li>▪ RECP solutions are being studied and evaluated for technical feasibility</li> </ul> |   |