

The project **"Eco-industrial Parks Intervention in Vietnam"** 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) improves the environmental, economic and social performance of industries in Viet Nam through the implementation of eco-industrial park approach in selected pilot industrial parks and relevant policies at the national level.

The project supports more than 100 businesses in pilot industrial parks to apply Resource Efficient and Cleaner Production (RECP) to improve the living quality of the workers and promote sustainable production.

### **COMPANY INFORMATION**



Company name: Toshiba Industrial Products Asia Co., Ltd Address: No. 309, Street 9, Amata Industrial Park, Long Binh Ward, Bien Hoa City, Dong Nai Province Key products: Motor Factory area: 80,000 m<sup>2</sup> Workshop area: 26,826 m<sup>2</sup> Number of workers: 167

### **PRODUCTION PROCESS**





Eco-Industrial Park Intervention in Viet Nam (2020 - 2024) For more information: http://eip-vietnam.org/

## WASTE STREAM

#### Wastewater

- » Domestic wastewater: 22,032 m³/year
- » Overflowing rainwater

Wastewater is collected and pre-treated before being connected to the industrial park's wastewater treatment system

### Solid waste

- » Hazardous waste: 88 t/year
- » Recyclable waste (paper, iron, steel, plastic): 4,698 t/year
- » Other waste: 28 t/year

# THE PROJECT'S INTERVENTIONS AND IMPACTS

#### The Project has supported:

- » Capacity building training on RECP and industrial symbiosis for technical staff of enterprises
- » Assessment of RECP by project experts
- » Proposing technical solutions to improve the efficiency of resource use and improve production efficiency of enterprises

Energy saving solutions	Water saving solutions	
<ul> <li>Turn off underloaded MBA</li> </ul>	Reduce hand wash faucet flow to 6 liters/min	
Compressed air leak		
Improved ventilation/cooling of air conditioners	<ul> <li>Replace the watering pipe with a smaller one and have a spray nozzle at the top of the hose</li> </ul>	
Renewable energy development solution	<ul> <li>Wastewater treatment of paint room exhaust gas treatment</li> </ul>	
Install rooftop solar power	system	

Solution type	Potential benefits	Implemented results
Save energy	<b>3 solutions</b> to reduce electricity consumption: 169,431 kWh/year (equivalent to 136t CO <sub>2</sub> /year) and save 339 million VND/year (14,436 USD/year)	<ul> <li>2 solutions to reduce electricity consumption:</li> <li>161,240 kWh/year (equivalent to 130t CO<sub>2</sub>/year) and save</li> <li>322.5 million VND/year (USD 13,738/year)</li> <li>01 solution is being reviewed and going to be implemented</li> </ul>
Save water	<b>3 solutions</b> to save water and reduce consumption: 3,042 m <sup>3</sup> /year, equivalent to save 54 million VND/year (2,289 USD/year)	<b>02 solutions</b> to reduce water consumption: 3,042 m³/year, equivalent to save 54 million VND (2,289 USD/year) 01 solution is going to be implemented
C Renewable energy development	<b>01 solution</b> to reduce electricity consumption: 2,791,000 kWh/year (equivalent to 2,244.2t CO <sub>2</sub> /year) and save 5,582 million VND/year (237,795 USD/year)	It is not implemented yet due to the policy barriers
Total	<b>7 solutions</b> to save: 393 million VND/year (16,724 USD/year) (excluding the solar energy) Power saving: 169,431 kWh/year (excluding the solar energy) Water saving: 3,042 m³/year Emission reduction: 136t CO <sub>2</sub> /year (excluding the solar energy)	<ul> <li>4 solutions: 376.5 million VND/year (16,027 USD/year) (excluding the solar energy)</li> <li>Power saving: 161,240 kWh/year (excluding the solar energy)</li> <li>Water saving: 3,042 m³/year</li> <li>Emission reduction: 130t CO₂/year (excluding the solar energy)</li> <li>02 solutions are going to be implemented</li> </ul>

