

# ANNUAL REPORT 2025





## *Preface*

The year 2025 continues to be a challenging one for both the global and Vietnamese economies, marked by ongoing supply chain restructuring, increasingly stringent environmental standards, and the profound impacts of climate change. In this context, green transformation, circular economy and sustainable development are no longer optional but essential requirements for businesses.

Over nearly 30 years of operation, guided by the principle of “Cooperation for Sustainable Development,” the Vietnam Cleaner Production Centre Co.Ltd. (VNCPC) has continued to support enterprises through consulting activities aimed at improving resource and energy efficiency, implementing cleaner production practices, conducting energy audits, developing greenhouse gas inventories and emissions management systems, preparing sustainability reports, and assisting businesses in complying with both domestic and international environmental standards.

The achievements in 2025 not only reflect the dedicated efforts of VNCPC’s staff but also demonstrate the strong and trusted partnerships we have built with our collaborators.

On behalf of VNCPC, I would like to express my sincere gratitude to international organizations, donors, ministries, agencies, Hanoi University of Science and Technology, and all partners and clients who have continuously trusted, accompanied, and supported us over the years. This strong collaboration forms a vital foundation for our shared journey toward a sustainable and low-emission economy in the future.

We firmly believe that, with a spirit of innovation and strengthened cooperation, 2026 will bring new opportunities for VNCPC to further contribute to the green transformation of businesses and the Vietnamese economy.

***Director of VNCPC***



Dr. Le Xuan Thinh

## ABBREVIATIONS

EIP	Eco-Industrial Park
ESG	Environmental - Social - Governance
IP	Industrial Park
MOIT	Ministry of Industry and Trade
SCP	Sustainable Consumption and Production
SP	Sustainable Production
RECP	Resource-Efficient and Cleaner Production
UNIDO	United Nations Industrial Development Organization
WBEs	Women-owned or women-led enterprises, cooperatives, and household businesses, or those with a high proportion of female workers
WWF	World Wide Fund for Nature



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## MISSION

In line with the principle “Partnerships for Sustainable Development” as a not-for-profit organization, VNCPC brings added values to clients through advanced scientific and technological services to contribute to the promotion of Sustainable Consumption and Production.

VNCPC has created a friendly working environment with the best conditions for the team to develop their professional competencies and interpersonal skills.

## VISION

With the desire to build a sustainable future, VNCPC strives to become the leading organization in Viet Nam and the region to provide both scientific and technological services in industry, agriculture and services on Resource Efficient and Cleaner Production, as well as climate change adaptation..

## CORE VALUES

Dedication - Innovation - Responsibility for the goal of Sustainable Consumption and Production;  
Respect - Sharing - Eager to learn - Partnerships for mutual development.



VNCPC is a regular member of the Global Network for Resource Efficient and Cleaner Production (RECPnet) which has been jointly established by UNIDO and UNEP.

VNCPC is a member of Bach khoa Ha Noi Technology Investment and Development One Member Company Limited (BK-Holdings - Ha Noi University of Science and Technology).



## SERVICES



Resource Efficiency and  
Cleaner Production



Energy efficiency and  
energy audit



Greenhouse gas inventory  
and emission reduction



Transformation into  
and development of eco-  
industrial parks



Supporting access to  
green finance sources



Development of  
sustainability (ESG) report  
for enterprises



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<https://www.facebook.com/vncpc>



# Activities in 2025

# DEVELOPMENT OF ECO-FAIR WOMEN-LED BUSINESSES IN GREEN AND CIRCULAR AGRICULTURE SECTOR IN VIETNAM



The goal of the project is to support women-led enterprises, cooperatives, and household businesses, or those with a high proportion of female workers (WBEs), in enhancing their access to sustainable employment and expanding business opportunities in green and circular agriculture, while also promoting social welfare activities at the local level.

The specific objectives of the project include:

- Strengthening the capacity of WBEs to implement eco-fair (sustainable) agricultural models in green and circular agriculture;
- Promoting the adoption of sustainable agricultural practices, contributing to emissions reduction and creating more employment opportunities for women;
- Improving access to finance for WBEs in the green and circular agriculture sector;
- Expanding market access for sustainable agricultural products of WBEs;
- Advocating policies to promote and sustainable employment opportunities for women in green and circular agriculture.

## GENERAL INFORMATION

- **Donor:** European Union
- **Implementing partners:** VIRI and VNCPC
- **Duration:** 05/09/2024 - 31/08/2027
- **Sector:** Agro-processing
- **Location:** Bac Ninh, Tuyen Quang, Gia Lai and An Giang
- **Contact:** Do Thi Diu
- **Email:** diu.dt@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 32





## ✓ KEY PROJECT ACTIVITIES

- Develop materials and organize training and knowledge-sharing activities on sustainable agricultural practices to enhance the capacity of WBEs in production and business towards green, and circular approaches;
- Provide technical consultation and support the adoption of sustainable agricultural practices through on-site advisory services for WBEs, focusing on Resource-Efficient and Cleaner Production (RECP), sustainability certification, and carbon credits, thereby contributing to emissions reduction and creating employment opportunities for women;
- Support the establishment and development of eco-agriculture models at the local level;
- Provide consultation on business plan development and facilitate financial linkages to support WBEs in expanding production and market access.

## ✓ RESULTS ACHIEVED

- Developed training materials and organized 3 out of 6 training courses on RECP, sustainability certification, and carbon credits for 150 representatives of WBEs across 4 target provinces. Results show that 94% of participants were satisfied with the courses, 88% acquired basic knowledge, and 75% (112/150) plan to apply the knowledge in their business activities;
- Conducted rapid assessments for 152 WBEs (exceeding the target by 2 enterprises) to identify the current status, potential, and readiness for adopting sustainable agricultural practices;
- Provided technical consulting and supported the development of 16 out of 30 eco-fair agriculture models for 16 selected WBEs across 4 target provinces (Tuyen Quang: 6; Bac Ninh: 2; Gia Lai: 3; An Giang: 5);
- Supported market access by designing eco-friendly product packaging for 8 out of 50 WBEs and organizing 1 domestic fair and 2 business matching events to expand sustainable market opportunities for participating WBEs;
- Published 8 out of 20 articles on mass media channels, and advocated and mobilised the participation of financial institutions and investment funds that offer credit programs aligned with gender, low-emission, and sustainable development criteria for WBEs.



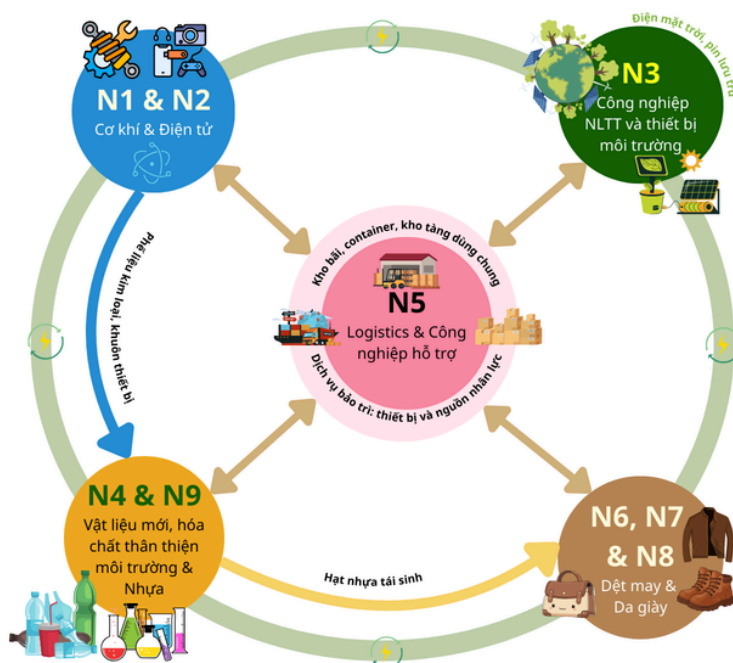
*Project team visits enterprises for site surveys*

# CONSULTING SERVICES ON EIP MODEL DEVELOPMENT FOR TIEN LANG 2 INDUSTRIAL PARK IN HAI PHONG

The objective of the service is to support the investor in developing an eco-industrial park (EIP) model for Tien Lang 2 Industry Park (IP), meeting the EIP criteria specified in Decree No. 35/2022/ND-CP and Circular No. 05/2025/TT-BKHDT, while also referencing international guidelines from the United Nations Industrial Development Organization (UNIDO) for promoting the application of RECP and industrial symbiosis.

## GENERAL INFORMATION

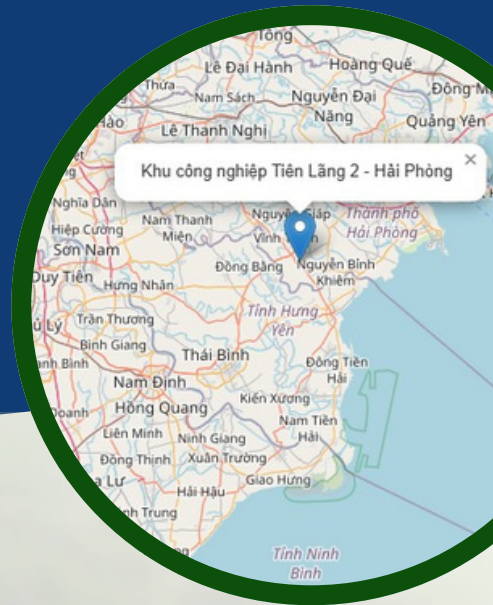
- **Client:** VSIP Hai Phong Co., Ltd.
- **Implementing Partner:** VNCPC
- **Duration:** 2025
- **Sector:** EIP infrastructure development
- **Location:** Hai Phong
- **Contact:** Vu Nang Nam
- **Email:** nam.vn@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 16





## KEY PROJECT ACTIVITIES

- Analyze natural conditions, infrastructure, and environmental aspects of the project area;
- Propose preliminary industrial symbiosis models;
- Recommend RECP solutions and the use of renewable energy;
- Develop planning orientations for environmental and technical functional zones;
- Propose management and operational mechanisms for the EIP;
- Organize training and capacity-building activities for the IP developer; and
- Provide consulting support on documentation and procedures for project submission to competent authorities.



## RESULTS ACHIEVED

A finalised report consulting on the development of an EIP model for the Tien Lang 2 IP covering the following key contents:

- Consolidated legal regulations and implementation experiences of EIP models at both national and international levels;
- Identified target industries for investment attraction aligned with the development orientation of Hai Phong city, with the potential to establish industrial symbiosis and meet the development strategy of the IP developer;
- Proposed planning orientations for functional zones and symbiotic infrastructure systems, creating a foundation for linkages among enterprises;
- Provided typical RECP solutions, renewable energy utilization options, and a preliminary industrial symbiosis model;
- Proposed a smart and sustainable management model and monitoring mechanisms for the IP based on UNIDO's standard references.



# NET ZERO

## EXPERT TRAINING COURSES ON SUSTAINABLE PRODUCTION FOR INDUSTRIAL ENTERPRISES



The package titled “Implementation of an expert training course on sustainable production for industrial enterprises” is part of the National Action Program on Sustainable Consumption and Production (SCP) for the period 2021 - 2030 under the MOIT.

This assignment was carried out in 2025 to develop a pool of experts in the field of SCP, and was implemented in 2025.

### GENERAL INFORMATION

- **Host Agency:** Department of Innovation, Green Transformation and Industrial Promotion - Ministry of Industry and Trade (MOIT)
- **Implementing Partner:** VNCPC
- **Duration:** 08 -12/ 2025
- **Sector:** Industry
- **Location:** Vietnam
- **Contact:** Le Van Tung
- **Email:** tung.lv@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 34



## ★ KEY PROJECT ACTIVITIES

- ✿ Conduct surveys and assess training needs on sustainable production (SP) among consulting organizations, management agencies, and industrial manufacturing enterprises, including:
  - Collecting information on the current production status and training needs;
  - Synthesizing, analyzing, and evaluating training needs;
- ✿ Develop training materials on SCP for experts (in presentation format with case studies);
- ✿ Organize training courses on SCP for experts and reporting.



*Training course in Quang Ninh*



## ★ RESULTS ACHIEVED

- ✿ Completed a set of training materials on SCP, including lecture content and case studies with references to both domestic and international materials and consultations with experts;
- ✿ Successfully conducted two expert training courses on SCP: one for the Northern region from 26<sup>th</sup> to 28<sup>th</sup> November 2025 in Quang Ninh, and the other for the Southern region from 3<sup>rd</sup> to 5<sup>th</sup> December 2025 in Can Tho, which aimed at providing knowledge, implementation methodologies, and promoting experience sharing among experts and enterprises.



*Trainees in the training course in Can Tho*

# WATER AUDIT FOR TWELVE WET-PROCESSING TEXTILE FACTORIES



## GENERAL INFORMATION

- **Donor:** WWF
- **Implementing Partner:** VNCPC
- **Duration:** 09 - 11/2025
- **Sector:** Textile and Garment
- **Location:** Tay Ninh, Tien Giang, Dong Nai, and Ho Chi Minh City
- **Contact:** Le Van Tung
- **Email:** tung.lv@vncpc.org
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The assignment was carried out to conduct basic water audits at twelve textile factories with wet-processing operations, thereby identifying water-saving potential and proposing solutions for efficient water use. The participating factories are all large-scale with high production capacity.





### ✓ KEY PROJECT ACTIVITIES

- Conduct on-site assessments at the workshops of the twelve selected factories;
- Collect data on water consumption and wastewater treatment, walk-through textile dyeing processes, and propose solutions to improve resource efficiency based on textile expertise and specific water consumption indicators of the factories.

### ✓ RESULTS ACHIEVED

- Identified water inefficiencies in twelve companies, most commonly consisting of leaks throughout the water supply system, inefficient and wasteful use in activities such as irrigation, equipment cooling, wastewater treatment, etc., as well as a failure to exploit alternative water sources.
- The key solutions proposed for the 12 businesses include: (i) strengthening system management and maintenance; (ii) controlling water usage; (iii) reusing water; (iv) rainwater harvesting; and (v) upgrading wastewater treatment systems.
- Estimated potential savings from these solutions include: a 60 - 83% reduction in water usage in certain activities, utilising 8,500 - 63,000 m<sup>3</sup> of rainwater annually, and reusing over 40% of total consumption, leading to a significant reduction in water-related operating costs for the companies.

# DEVELOPMENT OF A GUIDANCE FRAMEWORK ON SUSTAINABLE CONSUMPTION AND PRODUCTION FOR A TYPICAL INDUSTRY



## GENERAL INFORMATION

- **Host Agency:** Department of Innovation, Green Transformation and Industrial Promotion - MOIT
- **Implementing Partner:** VNCPC
- **Duration:** 08 - 12/ 2025
- **Sector:** Industry
- **Location:** Vietnam
- **Contact:** Tran Huy Dau
- **Email:** dau.ht@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 26

The assignment is part of the National Action Program on SCP for the period 2021 - 2030, hosted by the MOIT. It aims to develop an SCP guideline framework based on the product life cycle approach for a typical industry sector.



## KEY PROJECT ACTIVITIES

- Conduct a desk study on product life cycle stages in line with SCP;
- Develop a guidance framework on SCP based on the product life cycle approach;
- Survey for selecting a typical industrial sector for pilot application;
- Apply the developed SCP guidance framework to the selected industry;
- Organize a consultation workshop to gather feedback and finalize the developed framework.

## RESULTS ACHIEVED

- Completed a consolidated report analyzing the product life cycle from a SCP perspective;
- Proposed a guideline framework on SCP based on the product life cycle approach (from design to disposal phases);
- Fulfilled a report on industrial sectors review, which selected the sector of household plastic products based on a set of selection criteria.
- Completed a report on pilot application of the guidance framework for the selected plastic sector to evaluate its practical applicability; and
- A consultation workshop was organized to gather comments and advice from experts, research organizations, industry associations, and enterprises to finalize the guidance framework and reports submitted.



*Consultation workshop on finalizing the guidance framework on SCP based on the product life cycle approach*



## ESG REPORT DEVELOPMENT TRAINING, ASSESSMENT AND CONSULTING



### GENERAL INFORMATION

- **Coordinating Agency:** GIC Vietnam Co., Ltd.
- **Implementing Partners:** Center for Community Capacity Development (Lead), VNCPC (Co-implementer)
- **Client:** Petrosetco Assets Management JSC (PSA)
- **Duration:** 09 - 12/2025
- **Sector:** Building management and industrial catering services
- **Location:** Hanoi
- **Contact:** Tran Thi Ngoc Mai
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The service package on ESG (Environmental, Social and Governance) reporting provides clients with on-site training and assessment to raise ESG awareness among staff and workers. It also includes (i) consulting on the development of ESG datasets in accordance with GRI standards; (ii) advising on solutions to improve environmental practices; and (iii) developing and finalizing ESG reports based on collected data, with stakeholder consultation.

## RESULTS ACHIEVED

**Training activities:** Completed ESG training for 20 PSA staff members

### **ESG data collection and assessment:**

Collected enterprise's general and operational ESG data including:

- General information and business performance: production and business operations, revenue, and economic contributions;
- (E) Environmental: use of resources, energy, and water; waste management; estimation of greenhouse gas emissions; and measures to mitigate environmental impacts;
- (S) Social: workforce information (e.g., gender structure, age, job levels, total training hours, etc.); related policies; and social and community aspects;
- (G) Governance: organizational structure; transparency; legal compliance (including tax obligations); risk management; and business ethics.



*On-site measurement and assessment at the enterprise*



**Development of ESG sustainability report:** Completed the ESG report for PSA, including the following key contents:

- Overview of production and business operations;
- Analysis of the ESG status and highlighting best practices based on collected information and provided data; and
- Identification of strengths and weaknesses in ESG implementation, along with proposed solutions to enhance the sustainability of the company's production operations.

## ESG REPORT DEVELOPMENT SUPPORT AND CONSULTING



### GENERAL INFORMATION

- **Client:** P&P Mechanical Co., Ltd.
- **Implementing Partner:** VNCPG
- **Duration:** 03 - 05/2025 (extended to 08/2025)
- **Sector:** ESG
- **Location:** Hung Yen
- **Contact:** Tran Thi Ngoc Mai
- **Email:** mai.tn@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 33

The service aims to conduct on-site assessment, support, and provide consultation to P&P Mechanical Co., Ltd. in developing its ESG report, while identifying opportunities to improve environmental practices, thereby enhancing efficiency and sustainability in production operations.





Some photos from the ESG report



## RESULTS ACHIEVED

### ESG data collection and assessment

Conduct an assessment of the current ESG status at the company's factory, including the collection of necessary information such as:

- General information on the company's production and business operations;
- (E) Resource and energy consumption, water use, renewable energy, emissions, greenhouse gas inventory, environmental pollution, ecosystems, biodiversity, and activities aimed at minimizing impacts;
- (S) Workforce and related policies, as well as social and community aspects;
- (G) Organizational structure, information transparency, risk management, and business ethics.

### Development of ESG sustainability report

Based on the collected information, develop an ESG report including the following key contents:

- Overview of general information on the company's production and business operations;
- Analysis of the ESG status and highlighting best practices based on collected information and provided data; and
- Identification of strengths and weaknesses in ESG implementation, along with proposed solutions to enhance the sustainability of the company's operations, including measures for energy efficiency, emissions reduction, and efficient and sustainable resource use.

# TO IDENTIFY RESOURCE EFFICIENCY AND INDUSTRIAL SYMBIOSIS INTERVENTIONS, AND TO PROVIDE RELATED TRAININGS IN THE VIET NAM SINGAPORE INDUSTRIAL PARK (VSIP) IN VIET NAM

The package is part of the project “Scaling up EIP Approaches to Promote Circular Economy in Vietnam”, under the framework of the Global EIP Programme (GEIPP II).

In Vietnam, the project is jointly implemented by the Ministry of Finance and the UNIDO during the period 2025 - 2028, to support IPs in transitioning towards EIP models and sustainable development.

Project activities support the transformation and scaling of EIP models in Vietnam, improving resource efficiency, reducing waste and greenhouse gas emissions, promoting industrial symbiosis, and applying circular economy solutions.

## GENERAL INFORMATION

- **Donor:** SECO through UNIDO and the Ministry of Finance
- **Implementing Partner:** VNCPC
- **Duration:** 03/2025 - 12/2026
- **Sector:** Industrial manufacturing
- **Location:** Bac Ninh
- **Contact:** Vu Nang Nam
- **Email:** nam.vn@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 16



## ✓ KEY PROJECT ACTIVITIES

- Organize training and capacity-building programs for enterprises and infrastructure developers of VSIP Bac Ninh IP on EIP, RECP, industrial symbiosis, and related technical topics;
- Conduct RECP assessments at enterprises to identify inefficiencies in production processes and propose improvement opportunities to optimize costs, increase profitability, and save raw materials, energy, and water;
- Review and assess the environmental and social risk management plan of VSIP Bac Ninh IP, and propose appropriate solutions and management approaches;
- Identify industrial symbiosis opportunities, conduct pre-feasibility studies, and support the implementation of potential industrial symbiosis solutions;
- Organize final workshops to share and disseminate project results to relevant stakeholders.

## ✓ RESULTS ACHIEVED

- Two thematic workshops were organized (14<sup>th</sup> May 2025 and 21<sup>st</sup> October 2025) with the participation of 170 delegates to enhance capacity for EIP transformation at VSIP Bac Ninh IP, while sharing experiences in applying RECP in enterprises;
- A total of 76 RECP solutions were proposed for seven enterprises, resulting in annual savings of over 2 million kWh of electricity and 26,329 m<sup>3</sup> of water. It led to an estimated annual reduction of more than 1,357 tons of CO<sub>2</sub> emissions and cost savings exceeding VND 5 billion;
- Completed a quick assessment report with proposed improvements to the Environmental and Social Risk Management Plan of VSIP Bac Ninh;
- Proposed four potential industrial symbiosis opportunities with the VSIP Bac Ninh IP developer and relevant enterprises.



*Images of training and RECP assessment activities at VSIP Bac Ninh IP*



# DEVELOPMENT OF A PROJECT PROPOSAL TO TRANSFORM TANG LOONG INDUSTRIAL PARK INTO AN ECO-INDUSTRIAL PARK



In the context of Vietnam's commitment to achieving Net Zero emissions by 2050 and promoting Green Growth, the transformation of Tang Loong IP into an EIP is essential to improve IP management efficiency and promote RECP and industrial symbiosis. The Lao Cai Provincial People's Committee has directed the development of the transformation project proposal for the period from 10<sup>th</sup> January to 31<sup>st</sup> December 2025, as a basis for future implementation.

VNCPC serves as the consulting unit responsible for developing the proposal in accordance with the criteria stipulated in Decree No. 35/2022/ND-CP and Circular No. 05/2025/TT-BKHDT for providing a foundation for the Lao Cai Provincial People's Committee to issue an implementation plan and roadmap for the subsequent transformation phase.

## GENERAL INFORMATION

- **Host Agency:** Lao Cai Economic Zone Authority
- **Implementing Partner:** VNCPC, Green Ventures Vietnam
- **Duration:** 2025
- **Sector:** EIP Infrastructure Development
- **Location:** Lao Cai
- **Contact:** Vu Nang Nam
- **Email:** nam.vn@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 16



## ✓ KEY PROJECT ACTIVITIES

- Conduct on-site surveys, collect and analyze data to comprehensively assess the current status of Tang Loong IP to identify gaps against EIP criteria and determine opportunities for transformation in line with the industrial characteristics of the park;
- Research and propose transformation solutions, including: improving planning and land-use structure; enhancing RECP; developing industrial symbiosis and industrial-urban symbiosis models; and establishing monitoring tools, management mechanisms, and coordination frameworks to ensure the sustainable maintenance and development of the EIP model structured in accordance with a standard proposal framework;
- Organize consultations and workshops to gather feedback from stakeholders; finalize the proposal and submit it to the host institution for further appraisal, approval, and implementation steps.



*On-site assessment at Tang Loong IP*

## ✓ RESULTS ACHIEVED

Completed the project proposal report, which has been officially accepted, with the following key contents:

- Overview of Tang Loong IP and the challenges related to the establishment and development of an EIP;
- Overview of the EIP model;
- Proposed land-use structure to meet the criteria for establishing an EIP;
- Proposed solutions for resource efficiency and the application of cleaner production;
- Proposed the development of an industrial symbiosis network within Tang Loong IP;
- Proposed the establishment and development of industrial-urban symbiosis;
- Proposed tools for monitoring, control, and compliance with current regulations and standards;
- Proposed management activities to maintain and sustain the EIP model.

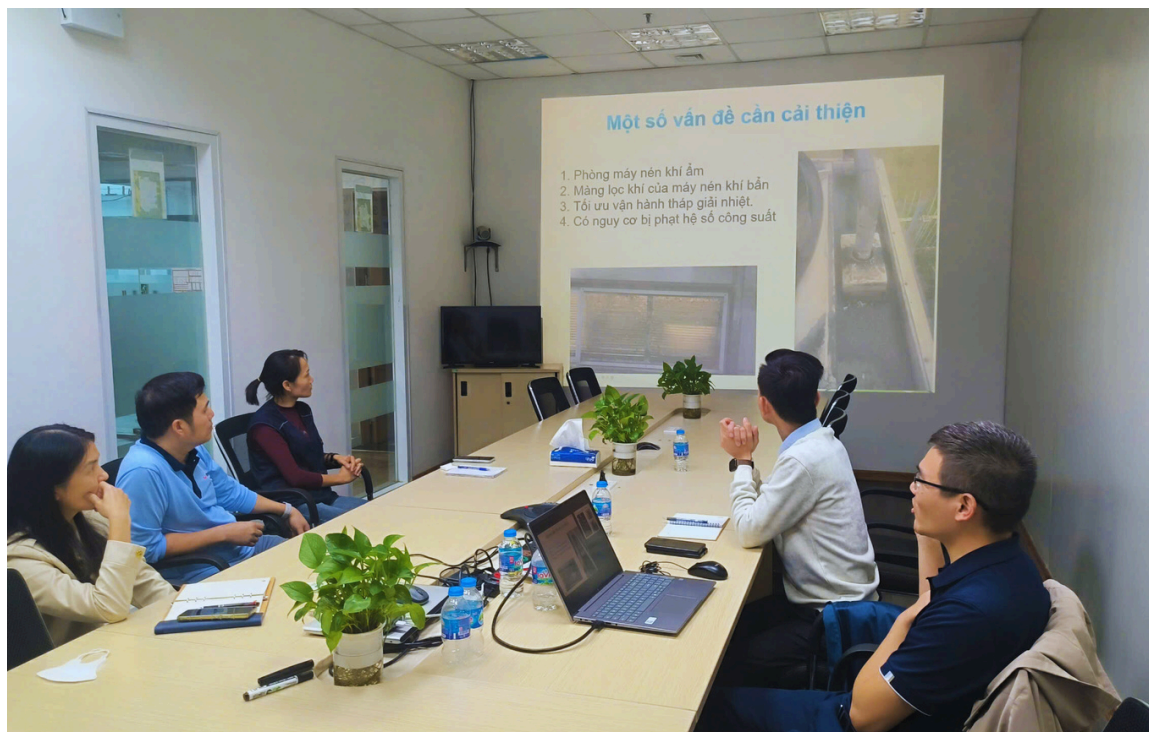


*Data collection at enterprises*



*Stakeholder consultation workshop*

# ENERGY EFFICIENCY ASSESSMENT FOR ENERGY-INTENSIVE ENTERPRISES IN TARGET INDUSTRIAL PARKS IN HAI PHONG CITY



## GENERAL INFORMATION

The package is part of the National Program on Energy Efficiency and Conservation for the period 2019 - 2030 under the MOIT.

The objectives include assessing the current status of energy use, identifying inefficiencies and energy-saving potentials, and proposing specific solutions to improve energy efficiency for energy-intensive enterprises in IPs in Hai Phong City.

- **Host Agency:** Department of Innovation, Green Transformation and Industrial Promotion - MOIT
- **Implementing Partner:** VNCP
- **Duration:** 09 - 12/2025
- **Sector:** Industrial manufacturing
- **Location:** Hai Phong
- **Contact:** Tran Huy Dau
- **Email:** dau.ht@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 26

## ✓ KEY PROJECT ACTIVITIES

- Organize workshops to propagate knowledge on energy efficiency and conservation in manufacturing companies and select enterprise participants in the assessment;
- Conduct energy audits for five enterprises;
- Organize a final workshop to summarize and share the implementation results.



*Enterprise representatives discussing energy efficiency and conservation*

## ✓ RESULTS ACHIEVED

- A workshop on promoting knowledge of energy efficiency and conservation was held on 21<sup>st</sup> November 2025, with the participation of 41 delegates representing enterprises in IPs in Hai Phong and other stakeholders. Presentations at the workshop shared policies, regulations, and solutions for energy-efficient usage. Following the workshop, the project team selected five representative enterprises to conduct energy audits;
- Energy audits were carried out from 14<sup>th</sup> November to 19<sup>th</sup> December 2025 at five enterprises, including data collection, on-site surveys, and assessment of current energy consumption;
- After completing the on-site assessments, result-sharing sessions were organized directly at the enterprises to present the findings;
- The results identified 36 energy-saving solutions, with a total potential saving of approximately 17.9 million kWh of electricity and 68.22 tons of LPG, enabling enterprises to save about VND 41,503 million per year and reduce emissions by approximately 12,015 tons of CO<sub>2</sub> annually. The energy audit reports were shared with the corresponding enterprises and submitted to the MOIT.



*Workshop on energy efficiency and conservation in industrial enterprises*

# ASSESSMENT OF INDUSTRIAL PARK IMPACTS ON WATER RESOURCES AND IDENTIFICATION OF CIRCULAR ECONOMY SOLUTIONS TO REDUCE WATER-RELATED RISKS AT TWO INDUSTRIAL PARKS

This assignment aims to assess the impacts and dependencies of IPs on water resources, as well as to evaluate water-related risks in the river basin connected to the IPs using the WWF Water Risk Filter.

It also identifies water-saving and water circular economy opportunities at the most water-intensive factories within the IPs, proposes industrial water symbiosis solutions among factories within the parks as well as at the IP level, and includes a preliminary cost-benefit analysis of these circular economy opportunities.

## GENERAL INFORMATION

- **Donor:** WWF
- **Implementing Partner:** VNCPC
- **Duration:** 06 - 11/2025
- **Sector:** Textile and Garment
- **Location:** Tay Ninh and Dong Thap
- **Contact:** Le Van Tung
- **Email:** tung.lv@vncpc.org
- **Tel:** (+84 24) 3868 4849 - Ext. 34

## RESULTS ACHIEVED

The report on water risk assessment and circular water solutions for two IPs has been completed, accepted, and highly appreciated by the client, including the following contents:

- Identified impacts and water dependency risks at the IP level;
- Water supply pipelines and wastewater treatment infrastructure assessment of the two IPs;
- Rapid assessments at three key water-consuming tenants with recommended opportunities for improving water efficiency and circularity;
- Suggested opportunities to improve water use efficiency and promote water circular practices based on industrial symbiosis.



Long Giang Industrial Park - Dong Thap



Phuoc Dong Industrial Park - Tay Ninh

## DONORS & NETWORK- PARTNER

### CƠ QUAN TÀI TRỢ - MẠNG LƯỚI - ĐỐI TÁC



Tính đến tháng 10/2024, UNIDO có 173 quốc gia thành viên. Nhiệm vụ của UNIDO là xúc tiến và thúc đẩy phát triển công nghiệp bền vững ở các nước thành viên.

As of October 2024, 173 states are member of UNIDO. The mission of UNIDO is to promote and accelerate inclusive and sustainable industrial development in member states.



RECPnet là mạng lưới toàn cầu thúc đẩy sản xuất sạch hơn và sử dụng hiệu quả tài nguyên, thông qua kết nối các tổ chức và chuyên gia nhằm hỗ trợ doanh nghiệp phát triển bền vững.

RECPnet is a global network that promotes resource efficient and cleaner production by connecting organizations and experts to support businesses in achieving sustainable development.



Chương trình Môi trường Liên hợp quốc (UNEP) là cơ quan điều phối các hoạt động môi trường của Liên hiệp quốc, hỗ trợ các nước đang phát triển trong việc thực hiện các chính sách và các cách làm hợp lý về môi trường.

UNEP is the United Nations' coor-dinating agency for environmen-tal activities, supporting developing countries in implementing environmental policies and practices.



Sứ mệnh của Apparel Impact Institute (Aii) là xác định, tài trợ và nhân rộng các giải pháp chất lượng đã được chứng minh để thúc đẩy các tác động tích cực trong ngành dệt may và da giày

Aii's mission is to identify, fund and scale proven quality solutions to accelerate positive impact in the footwear and textile industry.



Trung tâm và Mạng lưới Công nghệ Khí hậu (CTCN) thúc đẩy chuyển đổi nhân rộng các công nghệ môi trường an toàn hướng tới sự phát triển các bon thấp và ứng phó với biến đổi khí hậu tại các nước đang phát triển.

The CTCN promotes the accele-rated transfer of environmen-tally sound technologies for low carbon and climate resilient deve-lopment at the request of developing countries.



Quỹ Môi trường Toàn cầu (GEF) giúp giải quyết các vấn đề môi trường cấp bách. Hiện GEF đã trở thành đối tác của 183 quốc gia, các tổ chức quốc tế, tổ chức xã hội dân sự và khu vực tư nhân để giải quyết các vấn đề môi trường toàn cầu.

GEF which helped solve urgent environmental problems. GEF has now become a partner of 183 countries, interna-tional organizations, civil society organizations and the private sector to resolve global environmental issues.



Công ty Tư vấn Phát triển bền vững (dss+) là công ty tư vấn toàn cầu hỗ trợ doanh nghiệp nâng cao hiệu quả hoạt động, bảo vệ con người và hướng tới phát triển bền vững.

The dss+ is a global consulting firm that supports businesses in improving operational performance, protecting people, and advancing sustainable development.



Hiệp hội Chế biến và Xuất khẩu Thủy sản Việt Nam (VASEP) là tổ chức tự nguyện của các doanh nghiệp thủy sản, nhằm liên kết, nâng cao chất lượng, giá trị và bảo vệ quyền lợi hội viên.

The Vietnam Association of Seafood Exporters and Producers (VASEP) is a voluntary organization of seafood enterprises, aiming to promote collaboration, enhance product quality and value, and protect members' legitimate interests.