

# ANNUAL REPORT 2020



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## FOREWORD

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2020 is a year with many difficulties in economic growth for most enterprises, not only in Vietnam but also globally, due to the great challenges from the Covid-19 pandemic. However, with the unceasing efforts, Vietnam Cleaner Production Center Co. Ltd. (VNCPC) - a member of BK-Holdings (under Hanoi University of Science and Technology) has continued to support businesses in cutting production costs and minimizing negative impacts on the environment through the adoption of Resource Efficient and Cleaner Production (RECP), towards a society of sustainable production and consumption.

To support the supply chains to meet the increasing demands of consumers and brands, in the past year, VNCPC implemented consulting services on energy, water, raw materials and waste minimization for enterprises in different manufacturing sectors such as textiles, footwear, food processing, ... to conform the sustainability criteria in production.

Besides, VNCPC and partners updated RECP guidelines, compiled contents for online courses on sustainable production and consumption, and accessing to green finance to help businesses and consumers to be more proactive in finding and acquiring relevant knowledge.

On this occasion, VNCPC would like to express sincere thanks to international organizations, donors, ministries and branches such as the Ministry of Industry and Trade, the Ministry of Planning and Investment, the Ministry of Natural Resources and Environment, and the Ministry of Education and Training, Hanoi University of Science and Technology, etc. have accompanied and supported us throughout the years and we are looking forwards to continuous cooperation in the future.

*Director of VNCPC*



*Le Xuan Thinh*

## ABBREVIATIONS

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**Aii:** Apparel Impact Institute

**BAT:** Best Available Techniques

**BEP:** Best Environmental Practices

**CCS:** Center for Creativity and Sustainability Study and Consultancy

**CP:** Cleaner Production

**EU:** European Union

**GEF:** Global Environment Facility

**GG:** Green Growth

**GHG:** Greenhouse Gas

**IDH:** The Sustainable Trade Initiative Organization

**MARD:** Ministry of Agriculture and Rural Development

**MOIT:** Ministry of Industry and Trade

**MONRE:** Ministry of Natural Resources and Environment

**MSMEs:** Micro, Small & Medium Enterprises

**PPP:** Public-private-partnerships

**RECP:** Resource Efficient and Cleaner Production

**RtT:** Race to the Top

**SCP:** Sustainable Consumption and Production

**SECO:** Swiss State Secretariat for Economic Affairs

**UNIDO:** United Nations Industrial Development Organization

**UPOPs:** Unintentional persistent organic pollutants

**VIRI:** Vietnam Rural Industries Research and Development Institute

**VITAS:** Vietnam Textile and Apparel Association

**WWF:** World Wildlife 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 production and consumption. 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 Vietnam and the region to provide both scientific and technological services on Resource Efficient and Cleaner Production, as well as climate change adaptation.

## CORE VALUES

Dedicated - Innovated - Responsible for Sustainable Production and Consumption;  
Respect - Share - Eager to learn - Partnerships for mutual development.



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



RECP net

VNCPC is a regular member of the Global Network for RECP which has been jointly established by UNIDO and UNEP.

## **SERVICES**

1. Production cost reduction
2. Energy efficiency and savings
3. Energy audit
4. RECP+
5. Eco-industrial park development
6. Capacity building training
7. Technology transfer consultancy
8. Technology event
9. Sustainable consumption promotion



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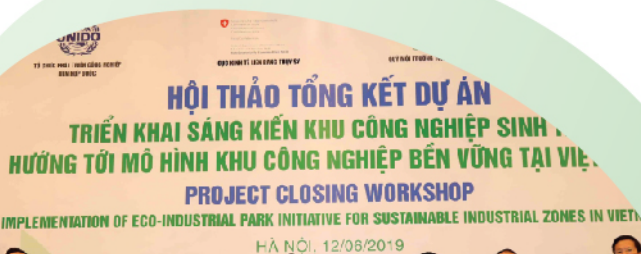
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## PROJECT HIGHLIGHTS

- ❖ Implementation of eco-industrial park initiative for sustainable industrial zones in Vietnam (EIP, 2015 - 2019)
- ❖ Implementation of RECP for Myanmar industrial production enterprise (2018)
- ❖ Establishing a sustainable pangasius supply chain in Vietnam (SUPA, 2013 - 2017)
- ❖ Industrial waste minimization for low carbon production (LOW CARBON, 2013 - 2018)
- ❖ GetGreen Vietnam (2012 - 2015)
- ❖ Green credit trust fund in Vietnam (GCTF, 2007 - 2017)
- ❖ Helping Vietnamese SMEs adapt and adopt cooperative social responsibility (CSR, 2011 - 2012)
- ❖ Green industry and eco-town development in Hoi An city (2011 - 2012)
- ❖ Sustainable product innovation in Vietnam, Laos and Cambodia (SPIN, 2010 - 2013)
- ❖ Establishing a sustainable production system for rattan products in Vietnam, Laos and Cambodia (2009 - 2011)
- ❖ Cleaner production for better products (CP4BP, 2007 - 2009)
- ❖ Industrial maintenance (2007 - 2008)
- ❖ Improving resources by using renewable resources and waste utilization (2006 - 2007)



**HỘI THẢO TỔNG KẾT DỰ ÁN**  
**TRIỂN KHAI SÁNG KIẾN KHU CÔNG NGHIỆP SINH**  
**HƯỚNG TỚI MÔ HÌNH KHU CÔNG NGHIỆP BỀN VỮNG TẠI VIỆT NAM**  
**PROJECT CLOSING WORKSHOP**  
**IMPLEMENTATION OF ECO-INDUSTRIAL PARK INITIATIVE FOR SUSTAINABLE INDUSTRIAL ZONES IN VIETNAM**  
HÀ NỘI, 12/08/2019



# ACTIVITIES

IN 2020





# PROJECT "PROMOTION OF SUPPLY AND DEMAND FOR ECO-FAIR AGRI-FOOD PROCESSING PRODUCTS IN VIETNAM"

The objective of the Eco-Fair project is to support MSMEs in Vietnam's agri-food processing sector to improve production processes and product quality in the period of international integration and, at the same time, increase perceptions and trust of the community in domestic products. Enterprises and consumers will receive useful practical knowledge about sustainable production and consumption through free online courses and direct consultancies.

## General information:

- ◆ **Donor:** European Union (EU)
- ◆ **Implementing partners:** VIRI, CCS, Funzi and VNCPC
- ◆ **Duration:** 4/2020 - 4/2023
- ◆ **Sectors:** Processing of rice, cashew nut, fruits and vegetables
- ◆ **Region:** Vietnam
- ◆ **Contact:** Dang Nguyen Nhung
- ◆ **Email:** [nhung.dn@vncpc.org](mailto:nhung.dn@vncpc.org)
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## Main activities of the project:

- ❖ Online learning courses built and distributed
- ❖ On-site assessment, training and intervention
- ❖ Awareness raising activities through online learning and media, and building a change maker-network
- ❖ Stimulating sustainable consumption and production through setting up an E-platform and Setting up a network of eco-fair retailers;
- ❖ Online learning courses to build capacity of 1.000 agri-food processing MSMEs;
- ❖ On-site training for potential investment projects at MSMEs; and
- ❖ Capacity building for eco-fair & circular economy policy for agri-food processing.

## Activities in 2020:

In the first year of the project, VNCPC and partners focused on building 3 online courses to help learners actively arrange their study time through internet-connected devices such as phones, tablets or computers.

- ◆ Course 1: Sustainable production for MSMEs
- ◆ Course 2: Sustainable consumption for consumers
- ◆ Course 3: Improve access to green credits for MSMEs

## Next steps:

- ❖ Screening the list of enterprises participated in the online course to select suitable enterprises for in-company consultancy on RECP assessment;
- ❖ Conduct rapid and in-depth RECP assessment to help businesses save production costs, reduce emissions to the environment and improve product quality, increase opportunities to access potential markets.

*RECP concept and benefits introduction at the launching ceremony*



*Processed agricultural products drew the attention of participants*



## TECHNICAL ASSISTANCE ON ENERGY EFFICIENCY FOR TEXTILE AND FOOTWEAR ENTERPRISES - RACE TO THE TOP PROGRAM

Race to the Top program (RtT) is an IDH's initiative that aims to reshape Vietnam's apparel and footwear sector by promoting and embedding sustainable manufacturing practices. Since its initiation in 2016, the program has helped in information sharing and improving the national policy as well as engaged over 200 Vietnam facilities. With the support of the program, participating companies improved their social, environmental and financial performance. Since 2020, RtT has collaborated with the Apparel Impact Institute (Aii) to provide technical assistance on using energy efficiently to other facilities of both tier 1 and tier 2.

### General information:

- ◆ Donor: Aii
- ◆ Host institution: IDH
- ◆ Implementing partners: VNCPC
- ◆ Duration: 6 - 12/2020
- ◆ Sectors: Apparel and footwear
- ◆ Region: Vietnam
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## Main activities of the project:

- ❖ Awareness raising and "green technology" recognition of pyrolysis technology;
- ❖ Development of feasibility studies and business cases;
- ❖ Promotion of the biochar market.

## Activities in 2020:

- ❖ Coordinate with UNIDO Hanoi to seek and select partners for pyrolysis technology awareness and technology transfer events;
- ❖ Support project team to update information on implementation results and application potentials for promoting the pyrolysis technology in Vietnam;
- ❖ Develop business cases of pyrolysis systems; and
- ❖ Search and connect with companies in Vietnam that have the potential to apply pyrolysis technology.

## Next steps:

- ❖ Organize pyrolysis technology transfer and awareness-raising events;
- ❖ Identify, select and provide technical assistance for potential adopters;
- ❖ Develop the criteria and process for recognizing pyrolysis technology as "green technology" in Vietnam; and
- ❖ Promoting the formation of a biochar market in Vietnam and further consider the export orientation.



*International Support Group-ISG (International Cooperation Department/MARD) and VNCPC worked with Viet Hien Mechanical Co*



*On-site visit coffee-planting area in Dak Lak*

## TEXTILE SECTOR ASSESSMENT AND FEASIBILITY STUDY TO IMPLEMENT WASTEWATER REUSE IN INDUSTRIAL PARKS

The study on "Textiles sector assessment and feasibility study to implement wastewater reuse in industrial parks" aims at assessing the potential for recycling and reuse of wastewater for the textile sector and identifying opportunities to implement public-private-partnerships (PPP) projects as per Law of PPP investment (approved by the National Assembly on 18<sup>th</sup> June 2020 and valid from 1<sup>st</sup> January 2021).

### General information:

- ◆ **Donor:** World Bank's 2030 Water Resource Group
- ◆ **Implementing partners:** SOFIES, VNCPC and ECOPSIS
- ◆ **Duration:** 7 - 12/2020, extended by 6/2021
- ◆ **Sectors:** Textile-garment production and industrial parks
- ◆ **Region:** Vietnam
- ◆ **Contact:** Nguyen Le Hang
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## Main activities of the assignment:

- ❖ Rapid assessment of wastewater treatment, recycle and reuse practices in Vietnam textiles industry;
- ❖ Development of 2 feasibility reports detailing the wastewater to recycle/reuse potential in industrial parks; and
- ❖ Summary of PPP models in wastewater recycle/reuse projects and clear recommendations for Vietnam.

## Activities in 2020:

- ❖ Study on the current state sector; survey, collect and analyze feedback from water-intensive textile enterprises;
- ❖ Coordinate with relevant authorities and agencies to nominate, shortlist and select 2 industrial zones to conduct the research;
- ❖ Make a list of PPP investment projects in the fields of environment, industry and water treatment, then shortlist 10 projects which have the closest model to the assignment target, case studies development.

## Next steps:

- ❖ Conduct water survey and audit, water balance in 2 selected industrial zones at enterprise-scale and the whole area;
- ❖ Identify, analyze, and plan for water recycling and reuse in enterprises and industrial zones, including the technical and economic feasibility study component, thereby completing the business proposal for the recycling - reusing water in the industrial park;
- ❖ Complete case studies, based on which recommendations are made to state management agencies, industrial zones, businesses, and other stakeholders so that Vietnam can promote the implementation of wastewater recycling/reuse in industrial parks.

*The 10,000 m<sup>3</sup>/day centralized wastewater treatment plant phase 1 in Pho Noi Textile Industrial Park (Hung Yen province)*

(Source: <https://bachkhoa-envitech.com/du-an/nha-may-xu-ly-nuoc-thai-tap-trung-khu-cong-nghiep-pho-noi-108.html>)



# SOUTH EAST ASIA-EUROPE NETWORK FOR BUILDING TRAINING AND EDUCATION CAPACITIES IN PLASTIC RECYCLING IN LAOS AND VIETNAM (SEA-PLASTIC-EDU)

The project supports universities in Vietnam and Laos in training engineers, bachelors and technicians on plastic recycling and waste management; connecting academia and industry in waste management; improve the ability to be recruited after graduation, and encourage entrepreneurship of graduates and university staff.

## General information:

- ◆ **Donor:** Erasmus+ Program of the EU
- ◆ **Host institution:** University of Natural Resources and Life Sciences Vienna (BOKU)
- ◆ **Implementing partners:**
  1. VNCPC
  2. TUD - Technical University Dresden, Germany
  3. AAU - Aalborg University, Denmark
  4. IUH - Industrial University of Ho Chi Minh City - MOIT
  5. HUS - Hanoi University of Science, Vietnam National University Hanoi
  6. NUOL - National University of Laos
  7. CITENCO - Citenco Ho Chi Minh
  8. 26.3 KT Co. Ltd.
  9. GREEN - Green Environment Co. Ltd
- ◆ **Duration:** 10/2017 - 4/2021
- ◆ **Sectors:** Plastic waste recycling
- ◆ **Region:** Vietnam, Laos
- ◆ **Contact:** Duong Thi Lien
- ◆ **Email:** lien.dt@vncpc.org
- ◆ **Tel:** (84-24) 3868 4849 - ext 32



## Main activities of the project:

- ❖ Develop a set of training materials, modernize the existing curriculum;
- ❖ Establish 2 training and research centres on plastic recycling, located at Industrial University of Ho Chi Minh City and Laos National University;
- ❖ Establish training network on waste recycling;
- ❖ Organize training courses for businesses, lecturers, and students in the field of plastic management and recycling.

## Activities in 2020:

- ❖ Joined with the project's partners to finalize the teaching materials for training courses on plastic waste recycling and management. The curriculum consists of 17 chapters, with up-to-date information on plastic recycling techniques, related policies, and waste management, as well as experiences of several countries around the world;
- ❖ Participated in the Training of Trainers course for the project, which was held online on 14<sup>th</sup> - 30<sup>th</sup> September 2020;
- ❖ Participated in the closing ceremony of the project and introduced the Centre for Training and Research on Recycling and Testing of Plastics, which is hosted by the Industrial University of Ho Chi Minh City.



*The project coordinator delivered the opening speech at the online closing ceremony*



# SERVICE FOR DEVELOPMENT OF THE VIETNAM GREEN GROWTH STRATEGY FOR THE PERIOD 2021 - 2030 WITH AN VISION TOWARDS 2050, INDUSTRY SECTOR COMPONENT

With the aim to meet the development needs and match with the national reality in the new period, the Vietnam Green Growth Strategies (VGGS) for the period 2021 - 2030 and vision towards 2050 (VGGS-post 2020) has been developed. In this VGGS, besides the cross-cutting measures, the sector-specific measures also are addressed, including industrial process and product use sector.

## General information:

- ◆ **Donor:** GIZ, under Macroeconomic Reforms/Green Growth Programme
- ◆ **Implementing partners:** VNCPC
- ◆ **Duration:** 6/2020 - 12/2021
- ◆ **Sectors:** Industrial sector
- ◆ **Region:** Vietnam
- ◆ **Contact:** Do Thi Diu
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## Main activities of the assignment:

- ❖ Review and assess the international experience and the national strategies, planning, and policy framework related to Green Growth (GG), particularly in the field of industrial sector;
- ❖ Select and develop baseline data for the important industrial sub-sectors;
- ❖ Conduct the forecast of GHG emissions from industry based on TIMEs model;
- ❖ Propose mitigation strategy for GHG emissions from the industrial sector; and
- ❖ Participate in developing of National Strategy and Action Plan for GG.

## Activities in 2020:

- ❖ Review, evaluate and analyze national and international documents and projects; policies and legal framework related to GG, particularly in the industrial sector;
- ❖ Develop a database of 8 identified important sub-industries, which are: Construction Materials (cement, fired bricks, ceramics), Food Processing, Beverages, Textile, Pulp and Paper, Chemicals, Iron and Steel, and Plastics;
- ❖ Propose GHG emissions reduction measures for the industrial sector; and
- ❖ Participate in consultation workshops and develop GG strategy for the VGGs-post 2020.

## Next steps:

- ❖ Carry out technical workshops in consultation with ministries, sectors, associations, organizations, and stakeholders;
- ❖ Conduct the forecast of emission and corresponding emission reduction scenarios; and
- ❖ Participate in the development of GG strategy and Action Plan, particularly for the industrial sector.



*Consultation workshop on GG indicators*



*Project team meeting to develop VGGs strategy*

## THE PROVISION OF SERVICES AND EQUIPMENT (TURNKEY) FOR 2 PILOT FACILITIES TO BE LOCATED AT PHAN BOI AND MINH KHAI CRAFT VILLAGES

The purpose of the assignment is to survey, conduct feasibility studies, identify and implement BAT/BEP solutions in order to improve production processes, reduce wastes and emissions of unintentional persistent organic pollutants (UPOP) generated from burning wastes of plastic recycling outdoor.

### General information:

- ◆ **Donor:** GEF/UNIDO
- ◆ **Host institution:** "Demonstration of BAT and BEP in open burning activities in response to the Stockholm Convention on POPs" project management board (MONRE)
- ◆ **Implementing partners:** VNCPC, Vinacolor Co. Ltd., and Viet Trung Environmental Technology Co. Ltd.
- ◆ **Duration:** 2018 - 2021
- ◆ **Sectors:** Plastic waste recycling
- ◆ **Region:** The North of Vietnam
- ◆ **Contact:** Duong Thi Lien
- ◆ **Email:** lien.dt@vncpc.org
- ◆ **Tel:** (84-24) 3868 4849 - ext 32



## Main activities of the service:

- ❖ Conduct survey and assessment on the current status of plastic recycling activities in Phan Boi and Minh Khai craft villages;
- ❖ Propose BAT/BEP solutions to increase productivity and reduce environmental impact;
- ❖ Install and conduct the trial operation of 2 new production lines in 2 craft villages;
- ❖ Install and conduct the trial operation of waste plastic recycling system to create useful products such as bricks, plastic tiles, plastic fences, etc.
- ❖ Provide training and technology transfer for households.

## Activities in 2020:

- ❖ Propose BAT/BEP solutions to improve the production process in the 2 villages;
  - ◆ Solutions, from simple with low-cost, easy to implement, to high-investment solutions to help households to improve their production depends on the financial capacity and production scale of each household.
  - ◆ The proposed solutions are integrated into 3 production lines to be installed in the 2 villages.
- ❖ Survey, select, and sign the memorandum of understandings with 3 households, which meet the criteria for the installation and commissioning of recycling facilities.

## Next steps:

- ❖ Carry out necessary works to procure equipment;
- ❖ Installation, conduct commissioning, adjust equipment and organize training courses for households in the 2 craft villages.



*Survey at shredding households in Phan Boi*

# COMPILATION OF GUIDELINES FOR GREEN TEXTILE INDUSTRY IN VIETNAM

The aim of the assignment is to develop a guiding reference for stakeholders to join hands in directing the textile and garment industry in Vietnam towards sustainable development while being more on its own initiative in raw materials supply to ensure long-term growth for the industry.

## General information:

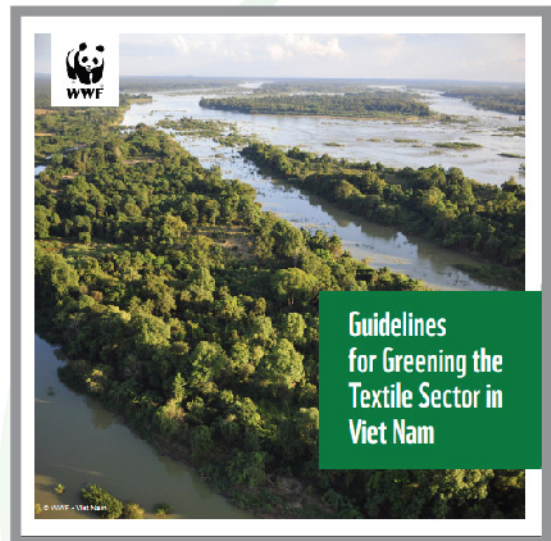
- ◆ **Donor:** World Wildlife Fund for Nature (WWF)
- ◆ **Implementing partners:** VNCPC, WWF, VITAS
- ◆ **Duration:** 12/2019 - 8/2020
- ◆ **Sectors:** Textile and Garment
- ◆ **Region:** Vietnam
- ◆ **Contact:** Nguyen Le Hang
- ◆ **Email:** hang.nl@vncpc.org
- ◆ **Tel:** (84-24) 3868 4849 - ext 14

## Activities in 2020:

- ❖ Analyze and compile relevant information;
- ❖ Conduct stakeholder consultation;
- ❖ Develop document contents;
- ❖ Collaborate with the project members to finalize the publication;
- ❖ Present relevant contents at the workshop hosted by WWF.

## Result:

- ❖ The publication includes 2 versions in English and Vietnamese, which were released in both paper and electronic format by WWF.



## GUIDELINES ON SUSTAINABLE CONSUMPTION AND PRODUCTION IN SEAFOOD PROCESSING IN VIETNAM

Guidelines on sustainable consumption and production in seafood processing aims at providing an assessment of the current state of Vietnam's seafood industry, thereby helping seafood processors, retailers/customers to apply sustainable consumption and production (SCP) practices.

### General information:

- ◆ **Donor:** Switch-Asia funded through IGES (Institute for Global Environmental Strategies)
- ◆ **Implementing partners:** VNCP
- ◆ **Duration:** 6 - 12/2020
- ◆ **Sectors:** Seafood
- ◆ **Contact:** Le Xuan Thinh
- ◆ **Email:** [thinh.lx@vncpc.org](mailto:thinh.lx@vncpc.org)
- ◆ **Tel:** (84-24) 3868 4849 - ext 28



## Main activities of the assignment:

- ❖ Assess the current state of the fisheries sector in Vietnam, particularly regarding SCP practices in seafood processing factories, the application of certification schemes, green label and green packaging by manufacturers and retailers/customers, and relationships with potential partners to enhance SCP in the fisheries industry in Vietnam.
- ❖ Develop SCP guidelines for retailers/supermarkets with a focus on eco-certification and green labelling programs, seafood supply chains, and SCP policies and procedures in the seafood sector engaging with the participation suppliers, customers, and other stakeholders.
- ❖ Co-organize 2 multi-stakeholder consultation workshops in Ho Chi Minh City and Hanoi to improve the contents of training materials, contents of the seafood SCP handbook, and training methods;
- ❖ Organize 2 seafood SCP training workshops for retailers/supermarkets.
- ❖ Revise and complete the guidelines based on comments and suggestions from stakeholders, and submit the guidelines to MOIT for issuance approval.



# PILOT PROGRAM ON SUPPORTING THE DEVELOPMENT OF GREEN DISTRIBUTION SYSTEM TO PROMOTE GREEN CONSUMPTION AND GREEN TRADE

This is a mission under the MOIT's target program to respond to climate change and GG in the year 2020, to implement green distribution at a pilot supermarket belonging to a large supermarket chain in Hanoi.

## General information:

- ◆ **Host institution:** Energy Efficiency and Sustainable Development Department - MOIT
- ◆ **Implementing partners:** VNCPC, Faculty of Marketing - National Economics University
- ◆ **Duration:** 8 - 12/2020
- ◆ **Sectors:** Green distribution
- ◆ **Region:** Hanoi
- ◆ **Contact:** Do Thi Thuy Nhung
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- ◆ **Tel:** (84-24) 3868 4849 - ext 15





## Activities in 2020:

- ❖ Participated in the pilot "Green transformation" program on the green distribution and the use of fully biodegradable AnEco bags. The event aimed at minimizing persistent plastic bags to contribute to GHG emission reduction, environmental protection and GG in Vietnam.
- ❖ Took on the role of field survey and measurement to advise the distributors selected as the pilot for economical and efficient use of energy, waste management, design green booths... They are the resources for VNCPCC to develop the green distribution guidelines for supermarkets and trade centres all over the country.
- ❖ Participated in the consultation workshop on sustainable distribution system organized by the Department of Energy Efficiency and Sustainable Development.

## Results:

- ❖ Guidelines on green distribution with specific, detailed, and easy-to-apply contents to help supermarkets and shopping centers all over the country develop green distribution systems, promote green consumption towards creating the, green trade in Vietnam;
- ❖ A series of solutions to help supermarket 174 Lac Long Quan save costs such as replacement of old fluorescent tube lights with energy-saving LED bulbs can save the with an estimate of 120 million VND/year, reducing waste and increasing the use of environmentally friendly materials and packaging... These solutions can be simultaneously deployed in supermarkets in BRG Mart's chain, contributing to building a sustainable green distribution chain.



*Consultation workshop on sustainable distribution system*

# SUPPORT BUSINESS CASE DEVELOPMENT AND ACCESS TO FINANCE FOR INDUSTRIAL SYNERGY INTERVENTIONS IN HOA KHANH AND TRA NOC INDUSTRIAL PARKS IN VIETNAM

This is an assignment in the framework of the project "Eco-industrial park intervention in Vietnam perspective from global eco-industrial parks program". The objective of this assignment is to re-evaluate the implementation of symbiosis opportunities between enterprises in Hoa Khanh industrial park (Da Nang) and Tra Noc 1&2 (Can Tho), which were identified in previous MPI-UNIDO's Eco-industrial park project (2015 - 2019) and continue to offer technical solutions and financial access to support this symbiosis opportunity in the next phase.

## General information:

- ◆ **Donor:** SECO
- ◆ **Host institution:** UNIDO, MPI
- ◆ **Implementing partners:** SOFIES, VNCPC, CL2B JSC
- ◆ **Duration:** 12/2020 -11/2021
- ◆ **Sectors:** Industrial sector
- ◆ **Region:** Hoa Khanh and Tra Noc 1&2 industrial parks
- ◆ **Contact:** Dang Nguyen Nhung
- ◆ **Email:** nhung.dn@vncpc.org
- ◆ **Tel:** (84-24) 3868 4849 - ext 26



## Main activities of the assignment:

- ❖ Undertake field missions to the industrial parks to update and discuss the status of industrial symbiosis implementation with the relevant park managers and companies, identify and understand the barriers to the implementation;
- ❖ Prepare a short report highlighting the environmental and social management plan (ESMP) of the beneficiaries (park and/or companies) to address potential risks relating to labour and working conditions, resource efficiency and pollution prevention, community health and safety;
- ❖ Devise a clear work-plan for the further development of the investment case/feasibility studies and implementation for discussion with UNIDO, MPI and relevant stakeholders;
- ❖ Support involved enterprises to industrial symbiosis opportunities in the development and submission of the investment proposal to a relevant bank or financing institutions.

## Activities in 2020:

- ❖ Conducted surveys to update the current status and progress of 12 symbiosis solutions identified in eco-industrial parks project;
- ❖ Identified and discussed on difficulties and emerged problems in the process perform with industrial park management boards and involving enterprises.

## Next steps:

- ❖ Analyze the progress and findings;
- ❖ Identify and select implementable solutions to further provide technical assistance and financial access to develop bankable proposals.



## REVIEW, UPDATE AND STANDARDIZE CLEANER PRODUCTION GUIDELINES FOR 7 TARGETED INDUSTRIAL SECTORS

This is one of the tasks assigned by MOIT under the scope of implementing “The national strategy on cleaner production in the industry by 2020”, which was approved in Decision No. 1419/QĐ-TTg on September 7<sup>th</sup>, 2009, for being carried out in 2020. The assignment aimed at updating and standardizing cleaner production guidelines for 7 industrial manufacturing sectors (pulp and paper, textile and apparel, steel arc-furnace processing, beer, paint, metal finishing and NPK fertilizer). These guidelines were developed in the period 2008 - 2011 with the support of the MOIT.

### General information:

- ◆ **Donor:** MOIT
- ◆ **Host institution:** Energy Efficiency and Sustainable Development Department - MOIT
- ◆ **Implementing partners:** VNCPC
- ◆ **Duration:** 1-12/2020
- ◆ **Sectors:** Industrial manufacturing sectors
- ◆ **Region:** Vietnam
- ◆ **Contact:** Do Thi Diu
- ◆ **Email:** diu.dt@vncpc.org
- ◆ **Tel:** (84-24) 3868 4849 - ext 33

### Activities in 2020:

- ❖ Reviewed guidelines on cleaner production application for 7 targeted industrial sectors;
- ❖ Compiled and integrated up-to-date information into the CP guidelines; and
- ❖ Edited and redesigned the template for the CP guidelines in line with the updated contents.

### Results:

The new version of 7 CP guidelines for 7 targeted industrial sectors with up-to-date information, which were presented in a scientific and easy-to-understand way for the consulting and management units acting in the field of CP as well as industrial enterprises on CP application was approved by MOIT.

## DONORS & NETWORKS - PARTNERS

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

Liên minh châu Âu hỗ trợ thúc đẩy SXSH và tiêu dùng bền vững tại 18 nước châu Á, trong đó có Việt Nam, thông qua chương trình SWITCH-Asia với đa dạng các lĩnh vực và khu vực/địa phương.

switchasia

The European Union support to promote cleaner production and sustainable consumption in 18 Asian countries, including Vietnam, through SWITCH-Asia program with a variety of fields at both regional and local levels.



VASEP có mục đích phối hợp, liên kết hoạt động của các DN, giúp nhau nâng cao giá trị, chất lượng, khả năng cạnh tranh của sản phẩm thủy sản Việt Nam; phát triển tạo nguồn nguyên liệu cho chế biến xuất khẩu thủy sản, đại diện và bảo vệ lợi ích hợp pháp, chính đáng của các hội viên. VASEP aims to coordinate and link enterprises operations, to improve value, quality and competitive capacity of Vietnamese seafood, to enhance source of raw material for seafood export, to represent and to protect legal interests of the members.

CL2B

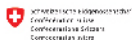
Được thành lập vào năm 2019 với tư cách là công ty tư vấn Kinh tế Tuần hoàn đầu tiên tại Tp.HCM; CL2B do Kim Le & Josse Kunst thành lập với tham vọng khép kín vòng lặp nguyên liệu tại Việt Nam và Đông Nam Á. Established in 2019 as the first Circular Economy advisory firm in Ho Chi Minh city, CL2B is founded by Kim Le & Josse Kunst with the ambition to close the loop of material in Vietnam & Southeast Asia.



WWF-Việt Nam được công nhận là tổ chức hàng đầu trong lĩnh vực bảo tồn tại Việt Nam, tư vấn các giải pháp, hỗ trợ chính phủ và các bên liên quan trong việc giải quyết các thách thức trong quá trình phát triển quốc gia. WWF-Vietnam is recognized as a leading organization in conservation in Vietnam, advising solutions, supporting governments and stakeholders in addressing challenges in the national development process.



Tính đến tháng 4/2019, UNIDO có 170 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 April 2019, 170 states are member of UNIDO. The mission of UNIDO is to promote and accelerate inclusive and sustainable industrial development in member states.



SECO là cơ quan của Chính phủ Liên bang Thụy Sĩ, phụ trách tất cả các vấn đề chính liên quan tới chính sách kinh tế và thị trường lao động. Mục đích của SECO là đóng góp vào tăng trưởng kinh tế bền vững, tăng tỷ lệ lao động và điều kiện lao động tốt, bằng cách thúc đẩy các khung pháp lý, kinh tế và chính sách ngoại giao cần thiết. SECO is the federal government's centre of excellence for all core issues relating to economic and labour market policy. The agency aims to contribute sustained economic growth, high employment and fair working conditions, by creating the necessary regulatory, economic and foreign policy framework.



Trung tâm Công nghệ Môi trường - ENTEC được thành lập ngày 1998. Hiện trung tâm có đội ngũ cán bộ là những chuyên gia hàng đầu trong lĩnh vực bảo vệ môi trường. ENTEC was established on 1998. At present, the center has leading experts in the field of environmental protection.

VIRI

Viện Nghiên cứu và Phát triển ngành nghề Nông thôn Việt Nam (VIRI) được thành lập năm 1997 - là tổ chức khoa học công nghệ hàng đầu trong lĩnh vực ngành nghề nông thôn ở Việt Nam hiện nay. The Vietnam Rural Industries Research and Development Institute (VIRI) - a leading non-governmental organization established in 1997 to support the sustainable development of rural industries in Vietnam.



IFC giúp các nước đang phát triển tăng trưởng bền vững thông qua đầu tư tài chính, huy động vốn từ các thị trường tài chính quốc tế, cung cấp các dịch vụ tư vấn cho các DN và chính phủ. IFC applies its financial resources, technical expertise, global experience, and innovative thinking to help our partners overcome financial, operational, and political challenges.



Trung tâm Khuyến công và Tư vấn Phát triển Công nghiệp Hà Nội (IDC) trực thuộc Sở Công thương thành phố Hà Nội có chức năng cung cấp các dịch vụ công trong lĩnh vực khuyến công, tiết kiệm năng lượng và tư vấn phát triển công nghiệp... Hanoi Industrial Promotion and Development Consultancy Centre under Hanoi Department of Industry and Trade has the function of providing public services in the field of industrial promotion, energy saving and industrial development consultancy.

## DONORS & NETWORKS - PARTNERS

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



Chương trình Môi trường Liên hiệp 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.

*The United Nations Environment Programme (UNEP) is the United Nations' coordinating agency for environmental activities, supporting developing countries in implementing environmental policies and practices.*



Quỹ Môi trường toàn cầu (GEF) được thành lập trước khi diễn ra Hội nghị Thượng đỉnh Trái đất Rio năm 1992, 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.

*The Global Environment Facility (GEF) was established before the 1992 Rio Earth Summit, which helped solve urgent environmental problems. GEF has now become a partner of 183 countries, international organizations, civil society organizations and the private sector to resolve global environmental issues.*



Sofies là đơn vị cung cấp tư vấn bền vững chiến lược, quản lý dự án và dịch vụ. Đơn vị này luôn sử dụng một phương pháp tiếp cận tích hợp dựa trên công nghiệp sinh thái.

*Sofies provides strategic sustainability consulting, project management and services. Sofies has a proven track record of applying its innovative tailor-made solutions for corporate, public and international organizations.*



Mạng lưới và Trung tâm 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. CTCN cung cấp các giải pháp công nghệ, xây dựng năng lực và khuyến nghị về chính sách, khung chính sách và luật pháp phù hợp với nhu cầu của từng quốc gia.

*The CTCN promotes the accelerated transfer of environmentally sound technologies for low carbon and climate resilient development at the request of developing countries. The CTCN provides technology solutions, capacity building and advice on policy, legal and regulatory frameworks tailored to the needs of individual countries.*



Công ty TNHH Sản xuất và Thương mại Sắc Màu Việt Nam (Vinacolour) tự hào là một trong những đơn vị có sản lượng lớn nhất và bề dày kinh nghiệm nhất về công nghệ, kỹ thuật sản xuất hạt Filler Masterbatch, hạt nhựa màu tại Việt Nam.

*Vinacolour is proud to be one of the most experienced and biggest companies with production of Filler Masterbatch, colored plastic beads in Vietnam.*



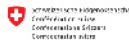
Hiệp hội Dệt may Việt Nam (VITAS) là tổ chức xã hội - nghề nghiệp, được thành lập trên cơ sở tự nguyện, bình đẳng của các tổ chức, cá nhân của mọi thành phần kinh tế hoạt động trong lĩnh vực sản xuất, xuất khẩu, tiêu thụ, dịch vụ thuộc chuyên ngành kinh tế - kỹ thuật dệt may Việt Nam.

*Vietnam Textile and Apparel Association (VITAS) is a social and professional organization, established on the basis of voluntariness and equality of organizations and individuals of all economic sectors operating in the field of production, export, consumption and services of Vietnam economic-technical textile industry*



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