

ANNUAL REPORT 2019



What is RECP?



Utilization of Resource Efficient and Cleaner Production (RECP) is the continuous application of integrated environmental prevention strategies to production processes, products and services to improve ecological efficiency and reduce risks for people and the environment.

- **For the production process:** RECP includes the conservation of raw materials and energy, eliminating hazardous materials, reducing the amount and toxicity of all waste at the source of waste.
- **For products:** RECP includes reducing negative effects throughout the life cycle of products, from design to disposal.
- **For services:** RECP brings environmental elements into the design and development of services.

(The United Nations Environment Programme - UNEP)

FOREWORD

Vietnam Cleaner Production Centre Co. Ltd. (VNCPC) - a member of BK-Holdings (Hanoi University of Science and Technology), formerly known as Vietnam Cleaner Production Centre - was established in 1998 to implement public services to contribute to a production and sustainable consumption society in Vietnam.

With more than 20 years of development, through training and technical assistance activities, VNCPC has helped more than 1,000 enterprises in the manufacturing and service industries to raise awareness and Resources Efficient and Cleaner Production approach (RECP) to reduce the consumption of raw materials, energy and water, to promote safe chemical management and to minimize waste generation, etc.

2019 is the final year of the project on Eco-industrial park initiative for sustainable industrial zones in Vietnam after 5 years of implementation. The RECP component implemented by VNCPC has helped 73 enterprises in 4 industrial zones in Ninh Binh, Can Tho and Da Nang save annually more than 25 million kWh of electricity; over 500,000 m³ of water; 135 TJ of fossil fuel, etc. equivalent to cutting production costs about VND 69 billion/year. This is a vivid and effective story setting for the implementation of the eco-industrial parks during the Government's enactment of regulations and roadmap for the transformation of conventional industrial zones into eco-industrial parks.

2019 was also the year witnessing an alarming level of plastic waste pollution both nationally and globally, especially ocean plastic wastes. VNCPC and the partners have been implementing BAT/BEP techniques for plastic recycling villages in Hung Yen to improve the efficiency of the plastic recycling process and minimize environmental pollution. Besides, VNCPC cooperated with Hanoi Industrial Promotion and Development Consultancy Centre to develop teaching materials, propagandize on sustainable production and consumption, the harmful effects of plastic waste to reduce the environmental burden, as well as the risk of "white pollution".

With such encouraging results, in 2020 we are committed to continuously accompany with the community of businesses, consultancies and experts to disseminate and replicate the implementation of RECP, energy efficiency, chemical safety management, industrial symbiosis, etc.

On this occasion, VNCPC would like to express sincere thanks to international organizations, donors and ministries and sectors such as Ministry of Industry and Trade, Ministry of Planning and Investment, Ministry of Natural Resources and Environment, 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

BAT: Best Available Techniques

BEP: Best Environmental Practices

CP: Cleaner Production

EIP: Eco-Industrial park

FES: Friedrich-Ebert-Stiftung

GEF: Global Environment Facility

GG: Green Growth

IFC: International Finance Corporation

IS: Industrial symbiosis

IZ: Industrial zone

MOIT: Ministry of Industry and Trade

MONRE: Ministry of Natural Resources and Environment

MOST: Ministry of Science and Technology

MPI: Ministry of Planning and Investment

POPs: Non-persistent organic pollutants

RECP: Resource Efficient and Cleaner Production

SCPRC: Sustainable Consumption and Production Research Centre

SECO: Swiss State Secretariat for Economic Affairs

UNEP: United Nations Environment Programme

UNIDO: United Nations Industrial Development Organization

VITAS: Vietnam Textile and Apparel Association

WWF: World Wildlife Fund for Nature

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MISSION

In line with 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)



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.



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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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 cooperate 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 systems 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)





ACTIVITIES

IN 2019





ECO-INDUSTRIAL PARK INITIATIVE FOR SUSTAINABLE INDUSTRIAL ZONES IN VIETNAM

The objective of the project is to help enterprises in industrial zones in Vietnam to increase production efficiency, reduce resource consumption, reduce greenhouse gas emissions and pollutants as well as improve the efficiency of water use and chemical safety management, etc. The project has made an important contribution to the Government's promulgation of relevant regulations on eco-industrial parks in Decree 82/2018/ND-CP regulated on "Management of industrial parks and economic zones", setting the foundation for the implementation of the transformation from traditional industrial zones to ecological industrial parks.

OVERALL INFORMATION:

- **Donors:** GEF, SECO, UNIDO
- **Host institutions:** MPI, relevant ministries, provincial authorities of Ninh Binh, Da Nang, and Can Tho
- **Duration:** 2015 - 2019
- **Sector:** Industrial manufacturing
- **Region:** Ninh Binh, Da Nang, Can Tho





In-depth training and monitoring component

The objectives of this component are providing in-depth training for RECP-trained experts and evaluating the results of the project's in-plant RECP implementation component in 2016 - 2018.

Implementing partners: VNCPC, ENTEC

Duration: 2019

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By April 2019, there were 53/73 enterprises in Khanh Phu and Gian Khau industrial parks (Ninh Binh); Tra Noc 1 & 2 (Can Tho) and Hoa Khanh (Da Nang) maintain the application of RECP solutions consulted by VNCPC in the previous stage, while simultaneously implementing new solutions generated by the companies themselves.

Thanks to these solutions the companies save annually more than 25,000 million kWh of electricity; over 500,000 m³ of water; 135 TJ of fossil fuel; reduction of 35,000 of CO₂eq. The total investment in RECP solution implementation of VND 40.7 billion approx. and brings in an economic benefit about VND 69 billion savings annually.





The component also conducted 2 RECP in-depth training courses for experts who are officials from Department of Industry and Trade of provinces, universities and consulting companies, etc., to improve local capacity on resource efficiency and cleaner production implementation.

The training courses took place in Hanoi and Ho Chi Minh City, with the participation of 54 trainees. After the training, all participants have received the project's training certificates.



Training course in Hanoi



Training course in Ho Chi Minh City



Component on “Industrial symbiosis feasibility study and implementation”

The component on “Industrial symbiosis feasibility study and implementation” of EIP in Vietnam is the next step to find out the industrial symbiosis opportunities of enterprises in 4 industrial parks: Tra Noc (Can Tho), Hoa Khanh (Da Nang), Khanh Phu and Gian Khau (Ninh Binh).

Implementing partners: VNCP, Sofies (Switzerland)

Duration: 2018 - 2019

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▶ 1. Industrial symbiosis assessment

Component activities started with reviewing RECP assessments conducted in the previous phase of the project, questionnaire survey and conducting site visits at selected enterprises. Industrial symbiosis (IS) opportunities were identified, reviewed and assessed qualitatively on economic and environmental aspects, technical feasibility as well as related legal aspects, attention from the Management Board of industrial zones (IZs) and enterprises. A total of 60 symbiosis opportunities were generated in 4 IZs. Among them, 18 symbiosis opportunities were selected for detailed feasibility further development after presentation and discussions with local authorities and industrial park management.

Industrial symbiosis opportunities identified and classified in participating industrial parks

CATEGORY	KHANH PHU/GIAN KHAU		TRA NOC 1 & 2		HOA KHANH	
	Identified	Feasibility study	Identified	Feasibility study	Identified	Feasibility study
Energy	4	2	3	1	4	2
Water	0	0	3	2	2	0
Wastes/Materials	6	1	10	2	11	2
Shared services	4	1	8	3	5	2
Total	14	4	24	8	22	6

▶ 2. Training

The 1-day training in each industrial zone of 3 provinces/cities (Can Tho, Da Nang and Ninh Binh) provided industrial zone managements, interested enterprises and relevant local authorities with knowledge, professional expertise related to IS, and ways to perform and manage the implementation.

Province/City	Training date	No. of trainees
Can Tho	23/04/2019	35
Ninh Binh	25/04/2019	48
Da Nang	26/04/2019	44

Contents of the training include the introduction of concepts, lessons learned related to IS; key tools and methods for IS identification and stakeholder engagement; typical cases of IS in Vietnam and some other countries such as Switzerland, South Korea, Tunisia.



The training classes provided participants with valuable knowledge

▶ 3. Results

At the end of the project, out of 18 identified symbiosis opportunities and corresponding feasibility studies, there have been 2 implemented, 5 in the development phase and other 5 in the implementation planning phase.



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 startup efforts of graduates and university staff.

OVERALL INFORMATION:

- **Donor:** Erasmus+ (Program of the European Union)
- **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, Vietnam - MOIT
 5. HUS - Hanoi University of Science, Vietnam National University Hanoi
 6. CITENCO - Citenco Ho Chi Minh
 7. 26.3 KT Co., Ltd
 8. NUOL - National University of Laos
 9. GREEN - Green Environment Co., Ltd
- **Duration:** 10/2017 - 10/2020
- **Sector:** Plastic waste recycling
- **Region:** Vietnam, Laos
- **Contact:** Duong Thi Lien
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- **Tel:** (84-24) 3868 4849 - ext 32

▶ Main activities of the project

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

▶ Activities in 2019

- ❖ VNCPC joined with the project's partners in compiling the teaching materials for training courses on recycling and plastic waste management. The curriculum consists of 17 chapters with up-to-date information on recycling techniques, related policies and waste management, as well as experience of several countries around the world.
- ❖ 2 VNCPC staff participated in a training-of-trainer course held by the project at Technical University Dresden (Germany), including the study visit at a plastic waste sorting plant in Dresden.



The project team participated in a training of trainer course at Technical University Dresden



The project team visited a plastic waste sorting plant in Dresden



A meeting between project partners



MARKET STUDY FOR BIOCHAR PRODUCED BY PYROLYSIS TECHNOLOGY

The project aims at scaling up the pyrolysis system, which is a Switzerland-transferred technology, and researching on market for biochar applications produced by the pyrolysis technology.

OVERALL INFORMATION:

- **Donor:** UNIDO
- **Host institution:** Husk Venture
- **Implementing partner:** VNCPC
- **Duration:** 6/2019
- **Sector:** Various
- **Region:** Vietnam
- **Contact:** Nguyen Thanh Trung - Project manager
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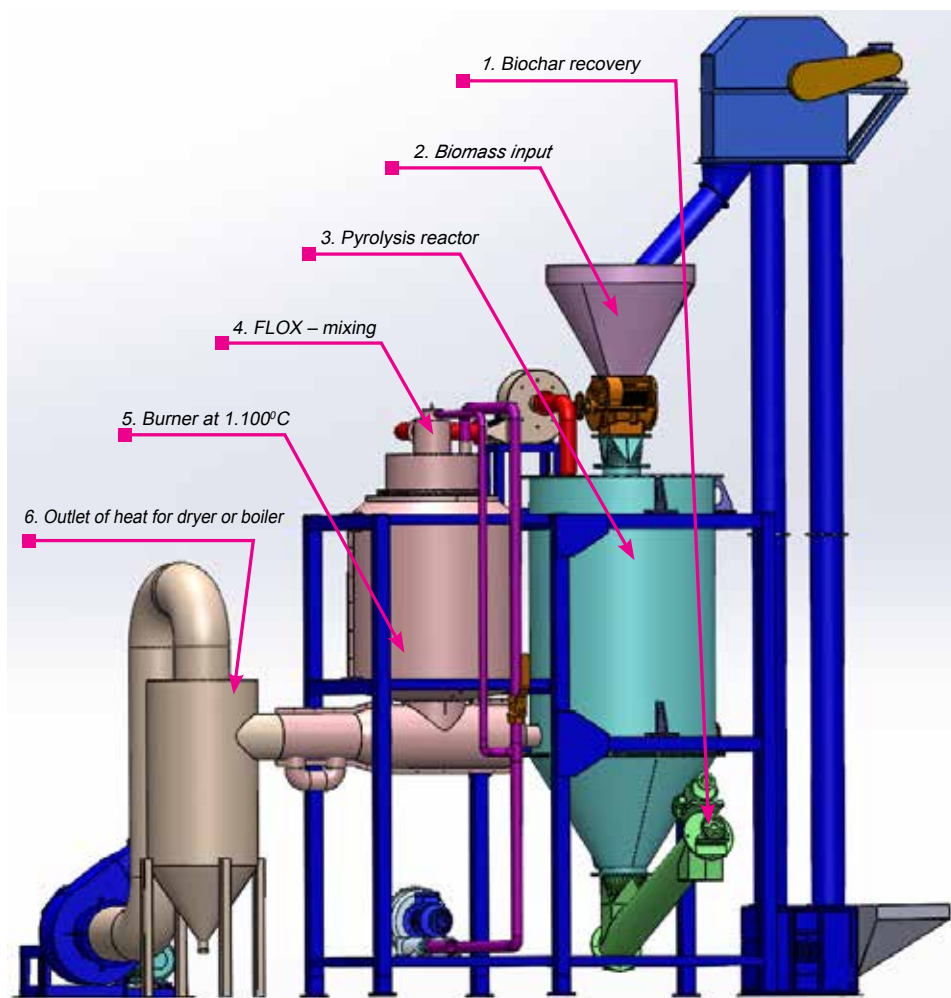
The project has assessed the need for the biochar market produced from small scale pyrolysis system using biomass fuels in Vietnam. The Flox-combined pyrolysis technology system (PPV300) was developed based on the design of Oekozentrum (Switzerland) and manufactured by Viet Hien Mechanical Company. The technology transfer process has been supported by UNIDO.



Process explanation by the technology developer

PPV300 pyrolysis system is used for increasing the value of agricultural residues with 3 main products: heat, biochar and wood vinegar.

While the heat can be used for drying agricultural products such as coffee and rice, the biochar has several valuable applications such as used as a fertilizer in agriculture or blended into animal feed to improve the meat quality, used in water treatment to remove organic and inorganic substances from wastewater, used in the production of activated carbon, and contributing to the carbon market.



Main components of PPV300

THE PROVISION OF TECHNICAL SERVICES AND TECHNOLOGY (TURNKEY) FOR TWO PILOT FACILITIES AT PHAN BOI AND MINH KHAI CRAFT VILLAGES

The purpose of the assignment is to survey, conduct the feasibility study, identify and implement BAT/BEP solutions to improve production processes, reduce wastes and emissions of unintentional non-persistent organic pollutants (UPOPs) generated from open burning of plastic recycling wastes.

OVERALL INFORMATION:

- **Donor:** GEF/UNIDO
- **Coordinating 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 (leading partner), Vinacolour Co. Ltd. and Viet Trung Environmental Technology Co. Ltd.
- **Duration:** 2018 - 2020
- **Sector:** Plastic waste recycling
- **Region:** The North of Vietnam
- **Contact:** Duong Thi Lien - Coordinator
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Main activities of the assignment

- ❖ Survey, assess, and evaluate to determine the current status of plastic recycling technology in Phan Boi and Minh Khai craft villages;
- ❖ Proposing BAT/BEP solutions to increase productivity and reduce environmental impacts;
- ❖ Installation and operation of 01 new production lines in Minh Khai, upgrade 01 production line in Phan Boi;
- ❖ Installation and operation of a pilot waste plastic recycling system to create useful products such as plastic bricks, tiles, fences, etc;
- ❖ Training and technology transfer for households.

Activities in 2019

Carry out survey and assess plastic recycling activities at the two villages

During the period from May to August 2019, the expert group of the consortium conducted surveys at 108 households in the two villages of Minh Khai and Phan Boi, focusing on the following issues:

- ❖ Update information on trading and production activities related to plastic wastes in the two villages;
- ❖ Assessing the production process, the status of storage and disposal of plastic recycling households;
- ❖ Carry out RECP quick assessment to provide solutions to help households improve their current production processes.

Proposing BAT/BEP solutions to improve the production process in the two villages

Based on the survey's findings, the consortium's experts proposed solutions, ranging from simple with low-cost one to large investment, to help households improve their production flexibly to the financial capacity and production scale of each household.

The proposed solutions are integrated into 03 facilities, which are expected to be installed in the two villages as follows:

- ❖ Upgrade in 01 recycling line in Phan Boi, helping production households can take advantage of some existing equipment and do not require much investment costs;
- ❖ Invest in 01 new modern plastic recycling line in Minh Khai with high efficiency, generating less waste, saving electricity and water savings;
- ❖ Invest in 01 production line of construction materials such as bricks and tiles from plastic wastes in Minh Khai village. With this line, solid wastes from the production process of households will be collected for recycling.



DEVELOPMENT OF VIETNAM'S GREEN TEXTILE AND APPAREL SECTOR VISION AND ACTION PLAN

The objective of the assignment is to support the development of the national strategy for sustainable development of the textile and apparel industry. This strategy includes vision and action plan to help the textile and apparel industry go green with resources efficiency and energy saving, chemicals efficiency and safety, waste management as well as updated technology trends, so that contributes to the country's commitment on the sustainable development goals and other international multi-agreements.

OVERALL INFORMATION:


- **Donor:** World Wildlife Fund for Nature (WWF)
- **Host institution:** WWF
- **Implementing partners:** VNCPC, WWF, Vietnam Textile and Apparel Association (VITAS)
- **Duration:** 12/2019 - 5/2020
- **Sector:** Textile and Apparel
- **Region:** Vietnam
- **Contact:** Dang Nguyen Nhung - Coordinator
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- **Tel:** (84-24) 3868 4849 - ext 26



▶ Main activities of the assignment

- ❖ Review and document all existing laws, regulations, strategies relevant to textile sector's environmental performances and consult with these public sector players on the future outlook of these interventions as respond to Vietnam's SDG, climate change and green growth commitments;
- ❖ Review international and regional best practices in promoting textile sector sustainability transition;
- ❖ Work with VITAS and relevant government ministries to forecast sector development trend, implications on natural resource use and identify possible interventions to mitigate environmental impacts of the sector development;
- ❖ Draft the policy document on "Vietnam's green textile and apparel sector vision" in collaboration with WWF Vietnam and VITAS;
- ❖ Prepare and present the draft "Vietnam's green textile and apparel sector vision" in the government workshop on textile and garment strategy on behalf of WWF.





DEMONSTRATION OF APPLICATION OF ENERGY-EFFICIENT AND CLEANER PRODUCTION FOR SHOPPING MALL

The assignment aims at developing a technical guideline on the application of energy-efficient and cleaner production for shopping malls in improve business efficiency, increase energy efficiency and reduce environmental pollution, hence contributing to the implementation of the objective of "Cleaner Production Strategy in Industry until 2020" was approved in Decision No. 1419/QĐ-TTg on September 7th, 2009 and the "The National action plan on sustainable production and consumption up to 2020, with a vision to 2030" approved by the Prime Minister on January 11th, 2016.

OVERALL INFORMATION:

- **Donor:** MOIT
- **Host institution:** Vietnam Environmental Industry Association (VEIA)
- **Implementing partner:** VNCPC
- **Duration:** 3/2019 - 12/2019
- **Sector:** Commerce, service
- **Region:** Vietnam
- **Contact:** Nguyen Thanh Trung - Project manager
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In 2019, the project team conducted surveys at 5 shopping malls including BigC Hai Phong; BigC Ninh Binh; Hanoi's Vincom centre Pham Ngoc Thach and Me Linh Plaza Ha Dong shopping centre; and Aeon Mall Long Bien shopping centre to evaluate the potential for application of energy efficiency and cleaner production and based on criteria such as data availability operation conditions. Vincom centre Pham Ngoc Thach was selected as a pilot for in-depth assessment.

▶ Outputs

- ❖ A manual for assessing cleaner production and energy efficiency for shopping centres and malls with useful information such as concepts, activities, inadequate environmental issues, as well as the methodology for implementing energy-efficient and cleaner production. This is a valuable reference for stakeholders such as Management Boards of shopping mall and supermarket industrial promotion and development centre of provinces, universities, etc.
- ❖ The study of cleaner production and energy efficiency at a pilot shopping mall will provide typical energy-efficient and cleaner production options that can be referenced and applied at any supermarket or shopping centre/mall.



Poor maintenance of condenser causing bubbles



Uneven distribution of cooling water in the condenser



Checking electrical system of Vincom centre Pham Ngoc Thach



TRAINING OF TRAINERS ON GREEN GROWTH

The activity is the next step of the service package of training materials and handbook on Green Growth (GG) initiated in 2018. The purpose of this training of trainers is to equip union officials with basic GG implementation knowledge so that they can guide enterprises' workforce in practices.

OVERALL INFORMATION:

- **Client:** FES
- **Implementing partners:** SCPRC, VNCPC
- **Duration:** 2 - 4/2019
- **Sector:** Industrial manufacturing
- **Region:** Vietnam
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The activity is part of the project "Supporting training and consultancy on Green Growth for enterprises" implemented by Friedrich-Ebert-Stiftung in Vietnam in coordination with Vietnam General Confederation of Labour.

▶ Activity in 2019

VNCPC in collaboration with SCPRC finalized 2 requested documents including:

- ❖ GG Training manuals for the project's target group of union officials: The training materials serve as a reference for them in their future GG presentations at in factories.
- ❖ GG Handbook for awareness-raising: The handbook provides workers with specific guides that can be applied at the workplace, as well as at home to improve the environment, save costs and increase health protection for themselves and the community.

4-days training of trainer was fulfilled in April 2019 in Dong Thap. Trainees are union officials from Labor Confederation of 9 target provinces (Nam Dinh, Ninh Binh, Thua Thien Hue, Quang Nam, Binh Dinh, Long An, Tien Giang, Dong Thap and Ba Ria - Vung Tau). Training contents that incorporate practical examples and demonstrative video clips were compiled by VNCPC and SCPRC for classroom training in combination with field visits to help union officials understand the insights of GG knowledge in developed training manual so that they can deliver GG instructions directly in enterprises in coming time.



Interactions between trainer and trainees in class activities



CAPACITY BUILDING ON CLEANER PRODUCTION IN INDUSTRY

The service is delivered in the framework of the training program within serial activities following Decision No. 1419/QĐ-TTg approving “Cleaner Production Strategy in Industry until 2020”.

OVERALL INFORMATION:

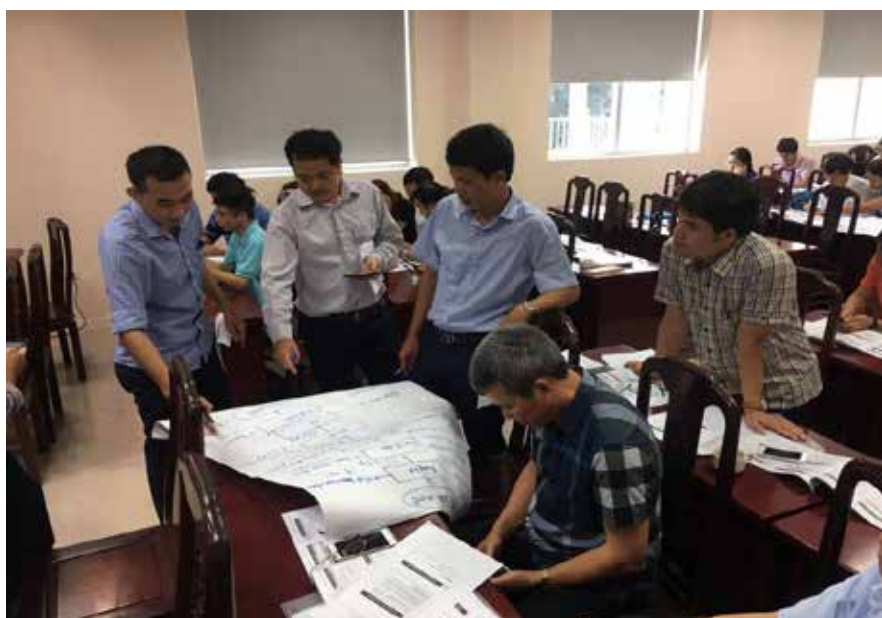
- **Host institution:** MOIT
- **Implementing partner:** VNCPC
- **Duration:** 8 - 10/2019
- **Sector:** State management and industrial promotion
- **Region:** Vietnam
- **Contact:** Nguyen Le Hang
- **Email:** hang.nl@vncpc.org
- **Tel:** (84-24) 3868 4849 - ext 14



The participants of the training courses are officials from provincial departments and agencies related to the implementation of the strategy. The training aimed to improve the capacity for implementing and managing CP promotion activities in localities.

▶ Activities in 2019

Basic CP training was organized in late August 2019 in Hanoi to equip the trainees with CP implementation methodology and supporting skills for instructing and promoting CP application in enterprises. There were 40 trainees participating in the 3-days training. VNCPC's trainers delivered CP contents including concepts, benefits, case studies and methods for implementation, in which theories were discussed alternately with practical exercises, demonstrative examples, and presenting video clips of practices at enterprises.



Group discussion in the basic training course

Advanced CP training session in the training course for certification of energy auditors

In October 2019, VNCPC's lecturer undertook 1.5 days of advanced CP training for 61 trainees aiming to improve their advisory and cleaner production assessment skills, so that trainees will be able to act as experts who can undertake the tasks in the local CP promotion program.

The contents included auditing skills; shared experiences and skills for field assessments, calculation tools in rapid assessment and development of CP reports following the standards of the Ministry of Industry and Trade.



PROMOTING SUSTAINABLE PRODUCTION AND CONSUMPTION, PLASTIC WASTE REDUCTION IN HA NOI

Sustainable production and consumption is a top issue in the cause of Green Growth in Vietnam as resources become scarcer and waste, especially plastic waste, increases day by day. Together with other countries in the world, provinces and cities in Vietnam are making great efforts to cope with the pollution caused by plastic waste, especially single-use plastics.

OVERALL INFORMATION:

- **Donor:** IDC
- **Implementing partner:** VNCPC
- **Duration:** 10 - 12/2019
- **Sector:** Community and consumers
- **Region:** Hanoi
- **Contact:** Nguyen Le Hang
- **Email:** hang.nl@vncpc.org
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Implementing the program of sustainable production and consumption in Hanoi in 2019, VNCPCC has collaborated with the Hanoi Industrial Promotion and Development Consultant Center (IDC) to organize:

- ❖ 05 propaganda sessions about the harmful effects of plastic waste and solutions to reduce plastic waste in production, distribution and consumption to 500 consumers and small businesses in Quang Trung ward (Ha Dong district), Thanh Xuan Trung ward (Thanh Xuan district), Hang Ma ward (Hoan Kiem district), Phuc Tho district; 01 propaganda session on prevention of plastic waste at the Women's Union of Hanoi Police.



Sharing experiences on reducing the use of plastic bags and single-use items

- ❖ 02 seminars on overview of the green business model in the field of distribution - services, sustainable supply chains and how to implement the green business model in the field of distribution and services.
- ❖ 02 sharing sessions on "Solutions to promote sustainable production and consumption network connection in the textile industry" and "Deploy a green business network in the field of textile and garment distribution" to businesses in Hanoi.
- ❖ Develop 01 guiding material on implementing a green business model in the field of distribution - services and sustainable supply chains and 01 manual document on sustainable production and consumption, sustainable production and consumption chains.

The action is one of VNCPC's efforts to contributing to the promotion of sustainable production and consumption, plastic waste reduction and environmental protection in the city, in particular, and the country, in general.



Sharing experiences on sustainable production and consumption model



DONORS & NETWORKS - PARTNERS

NHÀ TÀI TRỢ - MẠNG LƯỚI - ĐỐI TÁC



Liên minh châu Âu hỗ trợ thúc đẩy Sản xuất Xanh hơn 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.

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.



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs FDEA
State Secretariat for Economic Affairs SECO

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 là 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.



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 doanh nghiệp 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.



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.



SCPRC được thành lập vào năm 2013, với vai trò là một đối tác tích cực cùng các cơ quan Nhà nước, các tổ chức nghề nghiệp, tổ chức xã hội trong nước và các tổ chức quốc tế thúc đẩy việc xây dựng các mẫu hình sản xuất và tiêu thụ bền vững ở Việt Nam.

SCPRC was established in 2013, as an active partner of state agencies, domestic professional & social organizations and international organizations to promote sustainable production and consumption pattern in Vietnam.



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.



VASEP có mục đích phối hợp, liên kết hoạt động của các doanh nghiệp, 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.



Tính đến tháng 5/2018, UNIDO có 168 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 May 2018, 168 states are member of UNIDO. The mission of UNIDO is to promote and accelerate inclusive and sustainable industrial development in member states.



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.

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.

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.

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.

Hiệp hội Công nghiệp Môi trường Việt Nam (VEIA) là tổ chức xã hội - nghề nghiệp được thành lập từ ngày 23/4/2011. Hiệp hội có vai trò là đầu mối kết nối các doanh nghiệp, các tổ chức, chuyên gia thực hiện các nhiệm vụ liên quan tới ngành công nghiệp môi trường.



Vietnam Environmental Industry Association (VEIA) is a social-professional organization established on April 23, 2011. The association aims to connect businesses, organizations and experts to perform tasks related to the environmental industry.

Công ty TNHH Sản xuất và Thương mại Sắc Màu Việt Nam (Vinacolor) 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.



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

Mạng lưới và Trung tâm Công nghệ Khí hậu (CTCN) thúc đẩy chuyển đổi nhanh chóng 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.

RECPnet là mạng lưới toàn cầu về Hiệu quả tài nguyên và Sản xuất sạch hơn nhằm thúc đẩy việc ứng dụng RECP và điều chỉnh thích nghi tại các nước đang phát triển và các nền kinh tế chuyển đổi. Các đơn vị bảo trợ là UNIDO và UNEP, hỗ trợ cho RECPnet thông qua chương trình hợp tác RECP. Hiện mạng lưới có mặt tại 5 khu vực, với hơn 70 tổ chức thành viên.



RECPnet is the global network for promoting the widespread adaptation and adoption of Resource Efficient and Cleaner Production in developing and transition economies. As patron agencies, UNIDO and UNEP, provide support for RECPnet through their joint RECP Program. The network is currently available in five regions, with more than 70 member organizations.