



# ANNUAL REPORT

2014

# VIETNAM CLEANER PRODUCTION CENTRE

VNCPC was established in partnerships of HUST, UNIDO and SECO (Switzerland)

In collaboration with



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# FOREWORD

2014 marked a year of determination and strong commitment of the VNCPC team and all of our partners who contributed to a long-term sustainability in production and consumption.

In the past year, the GetGreen Vietnam project saw the graduation of 1099 Change Agents in four big cities and promoted behavior changes in consumption across Vietnam. At the end of the project, the change agents will work to see the impacts to continue the mission of promoting sustainable consumer habits in Vietnam.

The “Establishing a sustainable pangasius supply chain in Vietnam”, or SUPA project, has completed preparatory tasks to put model pangasius (catfish) farms into operation, as well as developed a methodology for how Sustainable Product Innovation can be implemented in the pangasius industry with the aim of enhancing the position and market share of Vietnam’s brand of sustainable pangasius products in Europe.

In the same year, the project on Green Credit Trust Fund provided financial support to nine Vietnamese Small and Medium-sized Enterprises to invest in cleaner technology innovation. The project on Industrial Waste Minimization for Low Carbon Production helped Vietnamese companies gain economic and environmental benefits by decreasing electricity consumption of over 900mWh per year, reducing emission of 505 tons of CO<sub>2</sub> per year and saving 1.35 VND billion annually through the continuous implementation of Resources Efficiency and Cleaner Production approach and the promotion of applying low carbon technology in the rice and coffee industries.

To achieve these meaningful results, we must thank all of those who have supported and worked with us as project partners, supporting organizations, donors, and individual experts.

On this occasion, I would like to express my gratitude to European Union, United Nations Industrial Development Organization, Swiss Secretariat for Economic Affairs, Vietnam Association of Seafood Exportation and Production, World Wild Fund in Vietnam and Austria, local and governmental authorities, concerned organizations and individuals, and international and Vietnamese experts who have supported us throughout the past year.

As the implementing body of projects, the VNCPC team profoundly understood the challenges which Vietnamese companies and consumers are faced with to find innovation in an emerging economy. We always trust in Vietnam having a sustainable future which has been cultivated by policies, technology transfer from developed countries, and particularly the Vietnamese spirit to embrace global trends and challenges.

The VNCPC team remains committed to Vietnamese people and organizations who continue to work together to see through with the sustainable transformation of Vietnam as it continues to grow.

Hanoi, March 2015



Associate Prof. Dr. Tran Van Nhan  
Director

# VNCPC OVERVIEW

The Vietnam Cleaner Production Centre (VNCPC) was established under the project framework US/VIE/96/063 signed by the United Nation Industrial Development Organization (UNIDO) and the Ministry of Education and Training on April 22nd, 1998 under the financial support of the State Secretariat for Economic Affairs Switzerland (SECO). VNCPC plays a focal role in Vietnam within the UNIDO-UNEP's National Cleaner Production Centres network.

Following 10 years under the establishment and development of UNIDO and the direct support from Hanoi University of Science and Technology (HUST); in 2009 VNCPC was transformed into an organisation with legal entity providing scientific and technological services under the name "Vietnam Cleaner Production Centre Company Limited". The company is a Not-For-Profit business member operating within Bach Khoa Hanoi Technology Investments & Development One Member Company Limited (BK-Holdings).

VNCPC is an official member of the UNIDO-UNEP global network on "Resource Efficient and Cleaner Production" (RECP), which makes an ongoing effort to shift towards sustainable consumption and production in Vietnam, Asia-Pacific and across the planet with its more than 50 member centres.

## MISSION

In line with principle "Partnerships for Sustainable Development" as a nonprofit organization, VNCPC brings added value 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 thrives to become the leading organization in Vietnam and the region to provide both scientific and technological services on Resource Efficiency 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.



**01**

PROJECTS UNDER IMPLEMENTATION

# **ESTABLISHING A SUSTAINABLE PANGASIUS SUPPLY CHAIN IN VIETNAM**

## GENERAL INFORMATION

**Donors:**

European Union (EU) through Switch-Asia

**Leading partner:**

VNCPC

**Project's implementing partners:**

WWF Austria, WWF Vietnam, Vietnam Association of Seafood Exporters and Producers (VASEP)

**Duration:**

4 years (April 2013 – March 2017)

**Participants/beneficiaries:**

Seed production and pangasius farming enterprises;  
Pangasius processing enterprises;  
Feed production enterprises;  
Managing agencies of agriculture, environment, financial, industry and trade, fisheries associations.

**Project objectives:**

Overall objectives: By 2020 pangasius farming, processing and exporting sector in Vietnam will become environmentally, economically and socially sustainable.

Specific objectives: By end of the project at least 70% of the targeted mid- to large-scaled Pangasius farming and processing SMEs, and 30% of feed producers and small independent production SMEs are actively engaged in RECP. At least 50% of targeted processing SMEs provide sustainable products compliant with ASC standards to the EU and other markets.

**Website:**

<http://vncpc.org/project/supa>  
[www.supa.vasep.com.vn](http://www.supa.vasep.com.vn)

## ACTIVITIES IN 2014

### 1. Conduct training and RECP assessment for processing SMEs

In the first cycle, VNCPC has conducted quick assessments for 30 SMEs, allowing us to identify the potential for improvement in terms of cleaner production and environmental performance. Among these enterprises, 14 SMEs were selected for further technical support with staff training on Resource and

Cleaner Production (RECP) and in-depth consultancy support. There have been 235 man-days of training and 12 full assessments completed, empowering the companies to witness significant changes by building practical in-company skills in RECP.



*Training on RECP at the SMEs*



*Full RECP assessment*

## 2. Quick assessment and RECP potential organization identification at production farms/households

VNCPC worked jointly with WWF Vietnam to carry out quick assessments for a total of 70 pangasius production and hatchery farms. During each visit, the team collected relevant data, provided quick recommendations for

improvement, and assessed the potential to be selected for further support on ASC certification and advanced RECP options.

No	Production sectors	Farms visited	Selected for RECP	Selected for ASC application
1	SMEs	10	5	6
2	Cooperatives/ production farms	55	12	1
3	Independent hatchery farms	5	0	6



*Farm visit and selection*



*Data collection and assessment*

## 3. In-depth studies for production enterprises

To support the production enterprises with advanced options, VNCPC has collaborated with the Fishery Department at Can Tho University to conduct the two studies:

- Research on increasing the survival rate in pangasius hatchery;
- Research on optimizing the FCR in pangasius production.

SUPA has worked with 9 committed SMEs, engaging them throughout the testing and research phases and supporting them with equipment, medicine and feed stock. This testing and research collaboration has the expected outcome of leading to more efficient pangasius production.

## 4. Concept outline and "SPI co-creation groups" identification

VNCPC, with support from a TU Delft researcher and a staff from Get Green Project, has developed "SPI concept" for Vietnamese pangasius. The concept was adjusted through

working with two selected co-creation groups at Vinh Hoan and An Viet enterprises.

## 5. Events and exhibitions

- Three SUPA staff participated in the 11th Asia Pacific Roundtable on Sustainable Consumption and Production (APRSCP) in Bangkok, Thailand and delivered a presentation to disseminate project information during one of the roundtable sessions. Also in this event, the experts took part in a workshop on “Policy Advocacy for Sustainable Agriculture and Food Systems in Asia” held by SWITCH-Asia Network Facility. This was a chance for an in-depth discussion on how to improve the projects’ policy advocacy strategies and for identification of country- and sector- specific agriculture and food priority issues.
- The SUPA project participated in Vietfish 2014 and joined together with VASEP to organize the Vietnam Pangasius Forum, titled: “Towards sustainable growth for pangasius in Europe”. The Forum was attended by more than 200 representatives, including those from SMEs, policy management authorities in Mekong river delta, certification organizations, importers from Europe, South America, and North America, etc. On this occasion, VNCP also hosted a tour of the pangasius farming area in Ben Tre province and processing facility in Godaco Seafood Company.
- SUPA staff with 4 processing SMEs participated in the European Seafood Exposition in Brussels, Belgium. It was really a great opportunity as all relevant stakeholders were present for meetings, and networking. This provided an excellent opportunity to promote the SUPA project, as well to emphasize improvements in the quality of pangasius, and its improved image.



*Idea exchange in Vietfish 2014*



*Vietnam Pangasius Forum*



*Vietnamese Ambassador to Belgium visit SUPA booth*



*New product introduction*

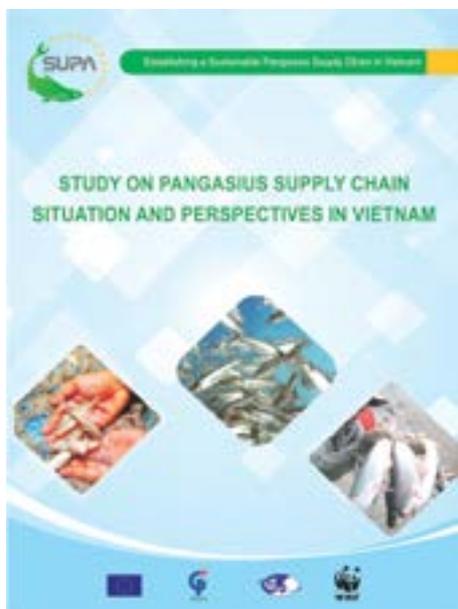
## 6. Publications



*Co-creation Guidebook*



*Video clip for SUPA project promotion*



*Study on pangasius supply chain in Vietnam*



*SUPA project brochure*

## UPCOMING ACTIVITIES

In 2015, the project will be performing the following activities:

- Continue to carry out quick and full RECP assessment for production, processing, hatcheries, and farms;
- Complete and start the operation of the Model Farm;
- Prepare Training Toolkit, organize and deliver Train of Trainer Workshop;
- Participate in networking events, accompany selected SMEs to take part in European Seafood Exposition in Brussels, April 2015;
- Develop advanced RECP options and transfer for production SMEs;
- Implement Sustainable Product Innovation Co-creation activities for processing SMEs.



02

# **GETGREEN VIET NAM - PROMOTING SUSTAINABLE LIVING AND WORKING IN VIETNAM**

## GENERAL INFORMATION

### Donor:

European Union (EU) through Switch-Asia

### Implementing partners:

TU Delft, VNCPC and AIT-VN

### Duration:

April 2012 – May 2015

### Website:

[vncpc.org/project/song-xanh-viet-nam](http://vncpc.org/project/song-xanh-viet-nam)  
[www.getgreen.vn](http://www.getgreen.vn)

### Project objectives:

- To contribute to increasing sustainable consumption behaviour of Vietnamese consumers;
- To increase capacity of consumer organizations and government in convincing and supporting consumers in making the choice for more sustainable consumption behavior.

### Participants/beneficiaries:

- Middle-income consumers in Hanoi, Ho Chi Minh City, Da Nang and Can Tho;
- Social organizations and NGOs working in related fields.

## ACTIVITIES IN 2014

### 1. GetGreen Guidebook and training materials development

Based on the results and experiences from the testing phase in 2013, the project team has developed and finalized the GetGreen Guidebook. It contains 8 clusters:

- Household wastes;
- In and around the supermarket;
- Live like a farmer in the city;
- Kitchen and bathroom of the future;
- Energy efficiency;
- Smart transport;
- 3R at the office/school; and
- Toward a green office.

This is the main project material which has been distributed to more than 1,000 participants of consumer groups during meetings. Knowledge on sustainable consumption is provided in the form of 'green tips' with each cluster having 10 – 15 tips. In each tip, information about personal and economic benefits of 'green living' are provided, as well as how the tip can be applied is explained succinctly and effectively. This includes the development of a training kit for trainers which includes a handbook, lesson plans, presentations, and additional supporting documents .



*GetGreen guidebooks*



*Sustainable action tips*

## 2. Training of Trainers (ToTs)

In February 2014, three ToTs were organized in Hanoi (1 ToT in English) and Ho Chi Minh City (1 ToT in English and 1 ToT in Vietnamese). 56 experts have been certified as GetGreen trainers and become the main human resource in implementing GetGreen groups in 2 batches in 4 cities.

By selecting trainers from various organizations (e.g. social organizations, NGOs, universities, clubs, enterprises), GGVN aims at diversifying GetGreen groups developed and guided by our trainers, as well as making the most of the abundant information sources provided by trainers.

No	Location/ Time	Sector	No of trainers	Man*day
1	Ho Chi Minh City, 17 – 19/2/2014	Multi-sectors	19	57
2	Ho Chi Minh City, 24 – 26/2/2014	Multi-sectors	17	51
3	Hanoi, 26 – 28/2/2014	Multi-sectors	20	60



*ToT in Ho Chi Minh City (February 2014)*



*GetGreen Vietnam trainers (Batch 1)*

## 3. Full approach deployment

During April 2014 – January 2015, GetGreen Vietnam has deployed 52 GetGreen groups which include 3 main target groups: office workers, students and residential community

groups. The full approach phase consists of 2 batches, each batch having 26 groups distributed equally among cities and among target groups.

City	Nr of groups	Nr of Change Agents
<b>Batch I (April 2014 – July 2014)</b>		
Hanoi	8 groups (office *4, community *2, student *2)	160
Ho Chi Minh City	8 groups (office *4, community *2, student *2)	154
Da Nang	5 groups (office *2, community *2, student *1)	121
Can Tho	5 groups (office *1, community *1, student *3)	118
<b>Batch II (October 2014 – January 2015)</b>		
Hanoi	8 groups (office *2, community *3, student *3)	156
Ho Chi Minh City	8 groups (office *3, community *3, student *2)	163
Da Nang	5 groups (office *1, community *2, student *2)	119
Can Tho	5 groups (office *1, community *2, student *2)	108

Each GetGreen group is led by one trainer through 6 meetings and consisted of 16-25 members. Usually they were from the same background, for example students in the same faculty or club, office workers in the same company, residents in the same area. Group participants together selected their two favoured clusters from the eight provided and with each of these two clusters they had the chance to have field trips to observe sustainable solutions to various issues (e.g. organic farming, energy efficiency display room, green office spaces).

By targeting behavior change and inspiring others (the change agents), the project team

witnessed many significant cases of individuals and organizations that have undergone positive changes both in working and living:

- Office workers of Viet Thanh Textile (Can Tho) have integrated GetGreen tips into their radio broadcasting programme weekly to more than 700 factory workers.
- Students of Da Nang University of Technology collected the wastes of campus and designed EE stickers to attach to every classroom.
- AIT-VN offices in Hanoi and HCMC started their long-term program on green office design...



*Field trip of group HNS1 (students of the National Economics University)*



*Group HNC5 (group of young mothers) receiving certificate and materials from GGVN*



*Students of Can Tho University in the field trip on smart transportation*

#### 4. Networking events - "Sustainable Day"

Sustainability Day took place in four cities: Hanoi, Da Nang, Ho Chi Minh City and Can Tho, with the aim to connect Change Agents, Individuals and Organizations who were involved in the GetGreen project from April 2014 to July 2014. At the events, the outstanding Change Agents told their own stories of adopting more sustainable lifestyles and their interactions with the community.

The events marked an important milestone for the project in "germinating" and qualifying more than 500 Change Agents, which account for first half of the project's training target. Those Change Agents, who represent 26 GetGreen consumers groups from 4 cities, are expected to serve as motivation for a larger community of sustainable consumption in Vietnam.



*Design poster at Sustainable Day*



*Ms.Do Thi Kim Linh - a GGVN trainer - sharing experiences in Sustainable Day*



*Sustainable Day in Hanoi*

## 5. Co-creation

As a unique approach in GetGreen Vietnam compared to other projects in the same field, co-creation connects consumers and producers/ service providers and creates chances for consumers to bring forward their demands and suggestions to producers. At the same time, both sides can discuss to improve products and services towards sustainability, as well as to change consumption behaviors of other consumers.

GetGreen Vietnam has conducted 12 co-creation sessions with 12 companies in Hanoi, Da Nang and Ho Chi Minh City in the food processing, handicraft, and service sectors. A co-creation manual has also been finalized.



*Co-creation session with Saigon Food*



*Co-creation manual*

## UPCOMING ACTIVITIES

In 2015, GetGreen Vietnam will implement the last project activities:

- Finalize groups implementation (batch 2 – January 2015)
- Sustainable Days in four cities (March – April 2015)
- Dissemination workshops in Hanoi, Ho Chi Minh City and Da Nang (April 2015).



03

## **GREEN CREDIT TRUST FUND IN VIETNAM**

## GENERAL INFORMATION

**Donor:**

SECO

**Coordinating agency:**

VNCPC

**Implementing partners:**

Techcombank, ACB, VIB

**Duration:**

2007-2017

**Website:**

<http://vncpc.org/project/gctf>  
[www.gctf.vn](http://www.gctf.vn)

**Overall objective:**

Promoting medium- and long-term investments in cleaner production technology within SMEs in Vietnam in order to contribute to environmental impact minimization.

**Participants/Beneficiaries:**

Vietnam's SMEs operating in the field of industrial production and several natural resource-consuming service sectors.

## ACTIVITIES IN 2014

### 1. Companies' investment projects:

In 2014, following cleaner technology investment projects have been started:

No	Company	Sector	Location	Technology change	Estimated grant level
1	Công ty TNHH Sản xuất và Thương mại Dịch vụ Đại Phát	Styrofoam packaging	Hải Dương	Boiler	25%
2	Công ty CP Giấy Mực Sơn	Kraft paper	Thanh Hóa	Boiler	25%
3	Công ty CP Hoàng Hà Hải Phòng	Kraft paper	Hải Phòng	Kraft production line	15%
4	Công ty TNHH Thép Tây Đô	Steel	Cần Thơ	CNG burner system for furnace	15%
5	Công ty TNHH Bắc Hà	Kraft paper	Bắc Giang	Kraft production line	15%
6	Công ty Cổ phần Giấy Lửa Việt	Kraft paper	Phú Thọ	Boiler	25%
7	Công ty Cổ phần Giấy Hoàng Văn Thụ	Kraft paper	Thái Nguyên	Boiler	25%

There are also some other projects on the way and expected to be accomplished in first half of 2015:

No	Company	Sector	Location	Technology change	Estimated grant level
1	Công ty CP Giấy Lam Sơn	Kraft paper	Thanh Hoá	Boiler	25%
2	Công ty CP Đầu tư HT Vina	Packaging	Hà Nội	Boiler	25%
3	Công ty TNHH Kiên Cường	Brick	Hà Giang	Non-fired brick kiln	25%
4	Hợp tác xã gạch ngói Việt Tiến	Brick	Hưng Yên	Non-fired brick kiln	25%

5	Công ty TNHH MTV Tân Kim Bắc	Brick	Tuyên Quang	Vertical shaft brick kiln	25%
6	Công ty TNHH Dệt May Hưng Thịnh	Textile	Thái Bình	Boiler, pressured scouring, pressured winch, closed drying	25%



*Reheating furnace in steel processing*



*Existing FO burners*



*Existing Kraft paper making line*

## *2. Dissemination activities*

VNCPC delivered a GCTF introduction session during the 2013 conference of Thai Binh provinces Industrial Park Review chaired by Thai Binh's Industrial Park Board of Management. This event, which is an important annual event of the sector, gathered more than 200 participants from various industrial enterprises in the province and some representatives from provincial authorities.

On the 13th March 2014, GCTF participated in the Hybrid Marketplace and Learning Platform which was held by Spark, Adelphi and HATCH! Program in Hanoi. Acting as the service provider, GCTF shared the information and

brochures to Social enterprises in SMEs technology innovation projects.

GCTF had its booth at the 6th International Exhibition Fair on Environment and Energy Tech Hanoi (ENTECH 2014), held at International Center Exhibition (Hanoi, 21-23 May 2014) with the participation of more than 200 booths of 150 local and foreign companies introducing energy-efficient and environmental-friendly technologies from Vietnam, Korean, Japan, Sweden and other countries.

During the exhibition, GCTF introduced and discussed the financial support mechanism that GCTF offers with visitors from industrial enterprises, service providers, equipment and technology suppliers, and other stakeholders. This was made clear how GCTF assists with the financial burden for technology investment projects involved in energy saving and environmental protection.

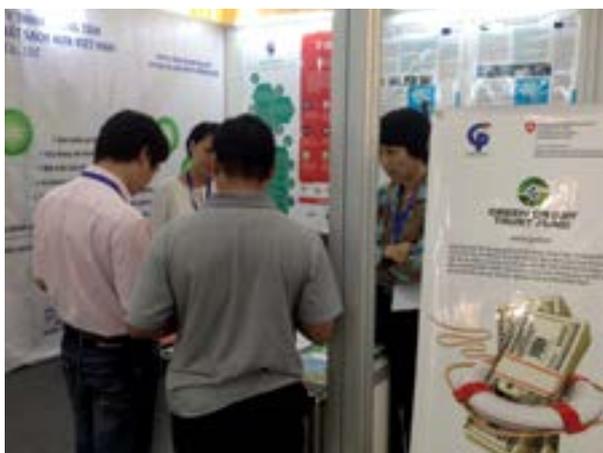
The mechanism of GCTF was explained through various workshops and enterprise approaching activities within the framework of other projects implemented by VNCP and partners, e.g. joint booths with BK Holdings along the forum of Vietnam Inclusive Innovation Project –VIIP. GCTF information has been updated continuously through websites, social media, and online magazines.



*Approaching industrial companies in Thai Binh province*



*Discussion with enterprises in the Hybrid Marketplace*



*GCTF booth at ENTECH 2014*



*GCTF introduction at VIIP 2014*

## UPCOMING ACTIVITIES:

- Continue supporting companies that have registered projects to fulfill their investment needs.
- Broadcast GCTF material and information continuously through online and social marketing, workshops, exhibitions and in connection with other projects implemented by VNCP in order to develop more clean technology investment projects.



04

# INDUSTRIAL WASTE MINIMIZATION FOR LOW CARBON PRODUCTION

## GENERAL INFORMATION

**Donor:**

SECO

**Implementing Partners:**

UNIDO, Sofies, VNCPC/NCPCs

**Participants/Beneficiaries:**

Producers and sectoral organizations in Rice and Coffee sectors.

**Duration:**

2013 -2016

**Overall Objectives:**

To achieve step-reductions of industrial waste and by-products generation, including organic materials, as well as to foster their valorization. This serves the triple purpose of (1) improving the local environment (less waste and waste water), (2) mitigation of greenhouse gas (GHG) emissions (reduced energy consumption and reduced methane generation from waste) and (3) economic benefits (resource productivity and possibly better product quality). The first phase of the project focuses on the Rice and Coffee sectors and is implemented in Vietnam, Cambodia, Peru and Colombia.

## ACTIVITIES IN 2014

RECP assessment activities continued to be carried out in rice and coffee sectors within the project framework, including work on:

- Support to companies in implementing RECP options;
- Re-evaluate resource efficiency situation of coffee sector;
- Full RECP assessment for Vinasilicates and Vietnam Environment Consulting companies;
- Implement two pilot projects on technology change in the rice sector, in which Song Hau Food Company and An Giang Food Company will apply husk-burned system for drying rice.

Benefit of implemented RECP solutions:

- Energy saving: 900,953 kWh/year
- Economic benefit: annual saving 1.35 billion VND/year
- Environmental benefit: reduce emission of 504.8 ton CO<sub>2</sub>/year

## UPCOMING ACTIVITIES

Along with monitoring the impacts of RECP options in all participating companies, there are four pilot technology intervention projects to be continued and closely monitored in 2015 including:

- Two pilots related to rice husk-based paddy drying system in Song Hau Food company and An Giang Food Company;
- Two ongoing rice husk briquetting pilot projects need to be developed in the integration with the results of the on-going market study.

Other new opportunities for production improvement will be sought out:

- Scaling-up the overall RECP approach to 13 milling companies belonging to Vinafood 2 (Vietnam Southern Food Corporation).
- Developing 2 pilot projects in the coffee sector owned by Simexco and Phi Long companies with the topic "Post-harvest processing centre".
- Developing a cross-sectorial innovative pilot owned by Long Phu Company (a Vietnamese pangasius processing company) with the topic "An off-grid rice husk based power plant".



*Evaluating boiler using rice husk in An Giang Food Company*



*Rice husk ash used as material for silica production*



*Rice husk used as fuel for drying system*



*Rice husk briquette production at VEC*



## GENERAL INFORMATION

### Donor:

Vietnam Blended Learning Program, sponsored by the Australian Government's Aid Programme (AusAID) and administrated by the World Bank (WB)

### Implementing agencies:

VNCPC, with technical support of TU Delft (Netherlands)

### Duration:

April 2013 – January 2014

### Website:

<http://spin-e.vn/>

### Overall objectives:

To enhance skills and knowledge of small and medium-scaled enterprises (SMEs) and consultants in the fields of Cleaner Production and Sustainable Product Innovation.

### Participants/beneficiaries:

Vietnamese SMEs, consultants/experts in sustainable production and SPIN.

## ACTIVITIES IN 2014

After the ICT-based interactive platform on CP and SPIN, which is available in both English and Vietnamese, was set up and operated successfully at [spin-e.vn/](http://spin-e.vn/), the project has conducted introductory activities to Vietnamese SMEs and consultants.

The last events of the project were two training-of-trainer courses, which were organized in Hanoi and Ho Chi Minh City in January 2014 on enhancing the CP and SPIN competency for SMEs and consultants regarding implementation and managing an ICT-based system.

No	Location /Time	Sector	Content	Participants			Man*day
				Expert	LAR	ER	
1	Hanoi 7th January 2014	General	SPIN-e use	22			22
2	Ho Chi Minh City 21st January 2014	General	SPIN-e use	33			33



*Training in Hanoi on 07th January 2014*



*Training in Ho Chi Minh City on 21st January 2014*

# CONFERENCES AND EXHIBITIONS

## Sustainable Living Space

On the 29th April, 2014, a “Sustainable Living Space” was officially opened by VNCPC at the Hanoi University of Science and Technology. The space aims to promote sustainable consumption practices in Vietnam through our cooperation with partners, TU Delft, and Board of Management of Hanoi University of Science and Technology. The space showcases samples of the 2,000 sustainable products that have been developed by Vietnamese and Dutch experts in cooperation with 500 businesses from Vietnam, Laos and Cambodia. These products represent the achievement of 7-years of effort in research, design and production by experts from Vietnam and the Netherlands and participating SMEs during the lifetime of two projects: “Cleaner Production for Better Products” (CP4BP) and “Sustainable Innovation Products” (SPIN).



## Annual European Seafood Exposition in Brussels 2014 (from 6th to 8th 2014)

Open every May, this is the world’s largest seafood trade fair. Over 100,000 trade visitors including buyers, suppliers, media and other seafood-industry professionals from over 100 countries attended to meet face to face and do business.

VNCPC together with SUPA project’ partners organized a booth within the Exhibition for introducing the project to international organizations, importers and retailers. The project also sponsored four Vietnamese pangasius enterprises to attend the “European Seafood Exposition and Seafood Processing Europe” for increasing market connections.

The opening of Vietnam Seafood Exhibition booth was witnessed by the Vietnamese Ambassador to Belgium and Luxembourg, H.E. Pham Sanh Chau and representatives of the Directorate of Fisheries, representatives of Vietnam Television in Europe together with international organizations, importers, media and manufacturers.



## **The 11th Asian Pacific Roundtable on Sustainable Consumption and Production (APRSCP)**

During the 19th – 20th May 2014 in Bangkok, the 11th APRSCP “Paving the Way for the Future We Want” has provided a platform for multi-stakeholders from Asia and the Pacific in developing and implementing innovative policy solutions, up-scaling technology and knowledge benchmarking, approaches and instruments towards the development and implementation programmes on SCP.



Two SWITCH-Asia projects, including the SUPA project of which VNCP is a lead partner and GetGreen Vietnam project of which VNCP is one of the three partners, participated in the Roundtable. Especially, Mr. Le Xuan Thinh, SUPA coordinator, delivered a presentation on “Establishing a Sustainable Pangasius Supply Chain in Vietnam” in one of the roundtable sessions.

## **The 6th ENTECH Exhibition**

The 6th International Exhibition Fair on Environment and Energy Tech Hanoi (ENTECH 2014) was held at International Center Exhibition (Hanoi) (21st - 23rd of May 2014) with the participation of more than 200 booths of 150 local and foreign companies introducing energy efficient and environmentally-friendly technologies from Vietnam, Korean, Japan, and Sweden. VNCP exchanged information with visitors coming from industrial and service enterprises, equipment, solution suppliers and other interested parties for updating and expanding the its RECP network.



## **Vietfish fair 2014 and Vietnam Pangasius Forum**

From 6th to 8th August 2014, the SUPA project team participated in Vietnam Fisheries International Exhibition (Vietfish 2014) in Ho Chi Minh City. The team also hosted a tour of the pangasius farming area for European importers, retailers, and representatives for local and



international media and ASC certificates. The tour was conducted in GODOCO Seafood Company's processing factory located in My Tho Industrial Park (Tien Giang province) and its pangasius farming area in Ben Tre province.

At Vietfish 2014, VNCPC joined together with VASEP to organize Vietnam Pangasius Forum titled: "Towards sustainable growth for pangasius in Europe" which included presentations on the challenges and difficulties of the Vietnamese Pangasius market and included speakers from the Directorate of Fisheries (Ministry of Agricultural and Rural Development), Ministry of Industry and Trade, SUPA project, ANOVA Seafood company (the Netherlands) and ASC certification organization.



### **"Vietnam Inclusive Innovation VIIP"**

#### **Forum**

On the 26th November 2014, Vietnam Cleaner Production Center (VNCPC) participated in the event of "Vietnam Inclusive Innovation", organized at Sheraton Hotel in Hanoi. Here we set the aim to network partners who support creative innovation activities and develop business toward low income people model of small and medium enterprises community, the forum was organized jointly by Project Management Department VIIP and SNV Netherlands Development Organization.



In the forum, there were participations of Vietnam Business Challenge Fund (VBCF), Fostering Innovation through Research, Science and Technology (FIRST), Innovation Partnership Program – Finland (IPP), The United States Agency for International Development (USAID), and International Fund for Agricultural Development (IFAD).

# LOOKING TOWARD THE FUTURE

Over the past 15 years the team at VNCPC has accomplished many great achievements and had excellent experiences promoting the Green Growth strategies of the Vietnamese government and international bodies. Encouraging the continuation of this work we will concentrate on furthering the Green Growth strategy going into 2015 and beyond by implementing the following:

1. Promote Resource Efficiency and Cleaner Production in industries on an industrial scale and zones or industrial clusters;
2. Establish and develop projects on sustainable production and consumption along the value chain;
3. Provide services to develop businesses' capability in increasing energy and water efficiency, coping with climate change and protecting the environment;
4. Widespread knowledge about ecological innovation and establishing "Sustainable Production and Consumption" models ;
5. Support businesses in technological innovation towards environmentally friendly and low carbon emission ;
6. Continuous network connection and collaboration to expand RECP Vietnam;
7. Study and seek out cooperation opportunities for incubating science and technology business specialized in the field of RECP.

## ABBREVIATIONS

ASC	Aquaculture Stewardship Council
CP	Cleaner Production
ER	Enterprise representative
EU	European Union
GGVN	Get Green Vietnam
LAR	Local authority representative
NCPCs	National Cleaner Production Centres
RECP	Resource Efficiency and Cleaner Production
SCP	Sustainable Consumption and Production
SECO	Swiss Secretariate for Economic Affairs
SMEs	Small and Medium-sized Enterprises
SPIN	Sustainable Product Innovation
SPIN-e	Interactive Cleaner Production – Sustainable Product Innovation Training and Consultancy E-platform
SUPA	Establishing a Sustainable Pangasius Supply Chain in Vietnam
TOT	Training of Trainers
TU Delft	Delft University of Technology (the Netherlands)
UNEP	United Nations Environment Programme
UNIDO	United Nations Industrial Development Organization
VNCPC	Viet Nam Cleaner Production Centre
WB	World Bank



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Partnerships for Sustainable Development