



2012

ANNUAL REPORT

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VIET NAM CLEANER PRODUCTION CENTRE

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

In collaboration with



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“ INTRODUCTION ”



“Sustainable development is development that meets the needs of the present without compromising the ability of future generations to meet their own needs”. Being founded and developed within the framework of two projects VIE/96/063 and VIE/04/064 signed between the Ministry of Education and Training and the United Nations Industrial Development Organization under financial support of the State Secretariat for Economic Affairs, VNCPC has been always aware of its responsibility in the sustainable development of society in general and businesses in particular. Responsibility means sharing together, accompanying together and acting together. Since its establishment on April 22nd 1998, VNCPC has kept making efforts to play the focal role in Vietnam within the UNIDO-UNEP National Cleaner Production Centers network, which is now the Resource Efficiency and Cleaner Production network (RECP net), to promote widespread the adoption of this concept in Vietnamese enterprises.

Experiencing 15 years of establishment and development, on behalf of the Centre, I would like to express our deepest gratitude and sincerest thanks to:

- SECO, UNIDO and UNEP for their noble financial supports as well as technical and management experiences;
- Ministry of Education and Training and the related ministries and agencies for their close direction and effective coordination in the implementation of project;
- Hanoi University of Technology and the Institute for Environmental Science & Technology for providing the most favorable conditions for providing the infrastructure and human resources during the establishment and development of VNCPC and the implementation of project's objectives;
- Enterprise partners, who have enthusiastically participated in the project's activities and willing to share experiences with their peers;
- Vietnamese and international experts, who devoted their enthusiasm and hard work to spread, guide and transfer their knowledge and experiences to Vietnamese enterprises and participants for the implementation of cleaner production strategies;
- All the officers and employees - who are directly or indirectly involved in the establishment and development of VNCPC, especially Assoc. Pro. Dr. Dinh Van Sam, former Director of the Institute for Environmental Science and Technology under Hanoi University of Technology and Pro. Dr. Heinz Leuenberger, VNCPC's Chief Technical Advisor, who have laid a solid foundation for the Centre's development as well as the desire and determination to promote the cleaner production approach into industrial practices for sustainable development of the national industries.

Hanoi, March 2013
Associate Pro. Dr. Tran Van Nhan
Director

Vietnam Cleaner Production Center Company Limited



VIETNAM CLEANER PRODUCTION CENTRE AND VNCPC COMPANY

01

MISSION AND VISION

MISSION

VNCPC pursues being number one in Vietnam and the region in providing services on Resource Efficiency and Cleaner Production in order to contribute to the cause of sustainable consumption and production.

VISION

VNCPC orients its activities to be an innovative organization, where employees work professionally in a friendly environment favorable for their career development. We always strive to apply Best Available Techniques and Best Environmental Practices in providing service packages promptly and with added values to clients.

02

CORE VALUES

Members of VNCPC family always:

- ARE IN PURSUANCE OF THE CAUSE OF SUSTAINABLE PRODUCTION AND CONSUMPTION;
- PERFORM TEAM WORK WITH FULL RESPONSIBILITY;
- ARE WILLING TO LEARN AND BE INNOVATIVE;
- SHOW RESPECT TO AND ARE WILLING TO SHARE WITH OTHERS.

VNCPC OVERVIEW

Vietnam Cleaner Production Centre (VNCPC) was established within the framework of project VIE/96/063 signed between Ministry of Education and Training and UNIDO on April the 22th, 1998, under the financial support of SECO, Switzerland. The Center is located at the Center for Environmental Science & Technology, which now is the Institute for Environmental Science and Technology under Hanoi University of Technology. VNCPC plays a focal role in Vietnam within the UNIDO-UNEP National Cleaner Production Centres network, for disseminate the “Cleaner Production” (CP) concept and promoting its adoption into the Vietnamese industries.

Over 15 years of establishment and development, in addition to promoting CP application in industry, VNCPC made its great efforts on building up CP capacity for industrial enterprises, research and consultation organizations, so that they could develop CP action plan for enterprises to enhance competitiveness in the international integration process. The Centre has tried to integrate CP with issues related to enterprises’ competitiveness towards Sustainable Consumption and Production (SCP) models such as Energy Efficiency (EE), Occupational Health and Safety (OHS), Environmental Management Systems (EMS), Corporate Social Responsibility (CSR) and environmentally-friendly technology innovation. Besides, VNCPC actively supports Laos and Cambodia to implement cleaner production program funded by UNIDO. Especially in recent years, VNCPC has successfully implemented a number of regional projects such as “Cleaner Production for Better Products”, “Establish a sustainable rattan production system in Vietnam, Cambodia and Laos”, “Sustainable Product Innovation in Vietnam, Cambodia and Laos” which are funded by the European Union (EU).

The initial results of the projects implemented by VNCPC have made an important contribution to theoretical and practical basis for green industry development in order to implement green growth strategy of the country in the coming years.

With the growth in first 10 years of establishment and development under the administration of UNIDO and the direct guidance of the Hanoi University of Technology, in 2009, VNCPC was transformed into an organization providing science and technological services with legal entity. VNCPC is now operating under autonomy and self-responsibility mechanisms of “Vietnam Cleaner Production Centre Company Limited”. The company is a corporate member of the BK Holdings of the Hanoi University of Technology. VNCPC is recognized as an official member of the UNIDO-UNEP global network on “Resource Efficiency and Cleaner Production” - (RECP net), and continues to implement the mission of “being the No. 1 position in Vietnam and the region in providing consultancy services Resource Efficiency and Cleaner Production in order to contribute to the cause of sustainable consumption and production”.



PROJECTS UNDER IMPLEMENTATION

GET GREEN VIETNAM (GGVN)

BACKGROUND INFORMATION

- Project name: Getgreen Vietnam
- Donor: SWITCH ASIA
- Objective: Promote sustainable consumption in Vietnam with 1000 change agents will be trained in the project.
- Duration: April 2012 to March 2015



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ACTIVITIES IN 2012

1) TRAINING ACTIVITIES

No	Venue	Sector	Content	Participant			Man-day
				Expert	LAR	ER	
1	AIT-VN		ToT for project staff in VNCPC and AIT	20			60
TOTAL							60

The project starts in June 2012 within cooperation between three parties: VNCPC, Tu Delft and AIT-VN. After six months of preparation, the project was launched successfully on 11.07.2012 in the presence of nearly 200 representatives from government agencies, non-governmental organizations who work in the field of in consumer support, social development organizations, and individual consumers in interest. Since the beginning, the project has built a close relationship with consumer organizations as VINASTAS, VACNE, Club of “Women with Consumption”, etc.

In addition, the project delivered a series of workshops with potential partners as well as implemented a series of studies on Vietnamese consumers’ behaviours. The project has planned to develop the training materials in accordance with the conditions of the domestic consumers for test phase, which will start in March 2013. Besides, in the field of communication, the project has made advertising through TV channels like VTV1, VTC and other media with more than 10 articles and reportage on the project activities and shared knowledge.



Launching ceremony of the GetGreen Vietnam project



Key partners of the project

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COMING ACTIVITIES

The project is developing of the training materials on sustainable consumption that fit to the conditions and the ability of Vietnamese consumers. Training materials will be tested in the period from March to August 2013. Official training will be delivered in six provinces and cities such as Hanoi, Ho Chi Minh City, Can Tho, Nha Trang, Da Nang and Quang Ninh as of September 2013 with the aim to educate smart consumers 1000 become the change agents at local level. Training and communication activities will be carried out alternately in the next two years.



SUSTAINABLE PRODUCT INNOVATION IN VIETNAM, CAMBODIA AND LAOS (SPIN)

BACKGROUND INFORMATION

- Funded by: SWITCH-Asia programme - EU.
- Overall objective: To contribute to improved innovative power of industry and improved environmental and social quality of products made in Vietnam, Laos and Cambodia. This will be realized by implementing Sustainable Product Innovation (SPIN). SPIN is also one key factor in the development process of a sustainable consumption and production economy.
- Implementation duration: 4 years (01/04/2010 - 03/12/2013).
- Website: www.spin-asia.org



ACTIVITIES IN 2012

1) TRAINING - WORKSHOP

Within the project framework and in cooperation with Asian Institute of Technology in Vietnam (AITVN), VNCPC organized a certain number of trainings and workshops to introduce the project activities and Design for Sustainability (D4S) methodology in three countries Vietnam, Laos and Cambodia:

No.	Location	Sector	Content	Trainers	Participants			Duration
					Expert	LAR	ER	
1	Luongprabang 20-23 /3/2012	Furniture	Training on building product innovation skill	Delft University of Technology, VNCPC	0	0	28	4 days
2	Hanoi, 2-12/4/2012	Handicraft, Food processing, Footwear, Textile, Furniture	Training of experts and trainers on sustainable product innovation for SPIN project	Delft University of Technology, VNCPC	21	0	4	10 days
3	HCM, 23/7 - 1/8/2012	Food processing	Training and Consulting for SMEs on product & packaging innovation	Delft University of Technology, VNCPC, AIT, ADS	6	0	16	5 training days, 4 consulting days
4	Son La, 7-9/8/2013	Food processing	Training on Cleaner Production & Sustainable Product Innovation for local Government officials	VNCPC	0	15	25	3 days
5	Hanoi, 12- 14/11/2012	Food processing	Training on Marketing & Branding for food-processing companies	Delft University of Technology, AIT, VNCPC			17	3 days
6	Vientiane 19-23/11/2012	Furniture	Training on sustainable product innovation for wood-processing companies	Dutch experts	0	0	24	5 days

SPIN ToT - April 2012



Closing ceremony of the Training on product & packaging innovation for food-processing companies in HCMC (product samples taken directly from the participants)



Training on Marketing & Branding for food-processing companies in Hanoi - November 2012



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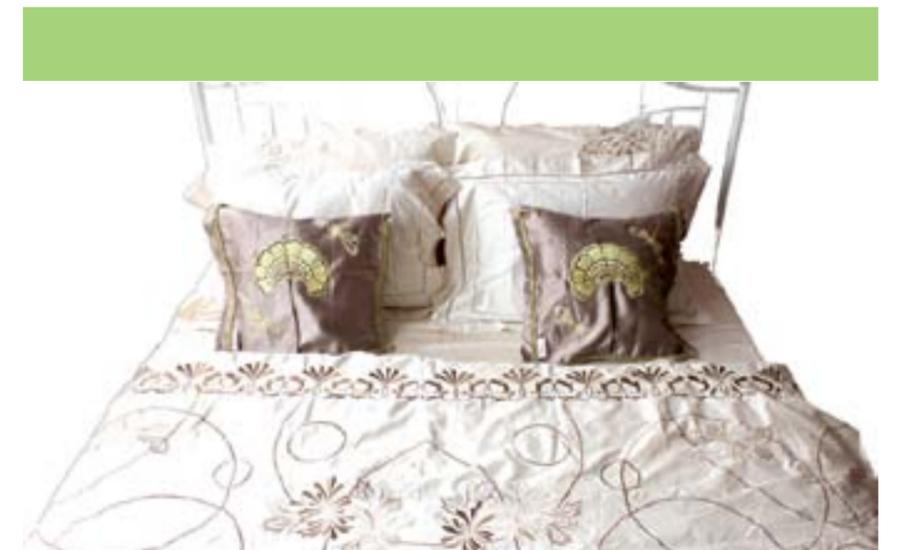
SPIN IN-COMPANY IMPLEMENTATION

By the end of Cycle 1 (March 2012), the project had completed CP assessment and SPIN implementation for 70 SMEs in Vietnam. Cycle 2 of the project started from April 2012 and would finish in March 2013. Currently, SPIN is being implemented in 41 companies in the sectors of food processing, furniture, handicraft, and fashion. SPIN redesigned and new products were made and displayed at Lifestyle Trade Fair in April 2012 and VIFA HOME Fair in October 2012. From the beginning of the project till the end of 2012, 261 designs have been delivered to the SMEs and 689 final products have been introduced for consumption on the markets. The number of commercialized products on the markets has increased remarkably, of which 100 products recently designed by SPIN have received order from customers. The knowledge farm model has been a new step forward in terms of methodology, from product innovation to system innovation, with consideration to the whole value chain.

A set of flowerpots made from green composite materials



The set of SPIN-Daisy products made by VINAEM Company has celebrated the national culture and traditional hand embroidery skills





GREEN CREDIT TRUST FUND IN VIETNAM (GCTF)

BACKGROUND INFORMATION

- Donor: SECO (Switzerland)
- Objective: Promoting medium- and long-term investments in cleaner production technology within SMEs in Vietnam
- Duration: 2007-2014
- Website: www.gctf.vn

ACTIVITIES IN 2012

1) COMPANIES' INVESTMENT PROJECTS

The five following projects were finished and received GCTF full support.

No	Company	Sector	Location	Technology change	Grant level
1.	Tan Phu Plastic Joint Stock Company	Plastic products	Hochiminh City	Extruding machines	25%
2.	Bac Ha Paper Limited Company	Kraft paper	Bac Giang	Dissolved Air Flotation	25%
3.	Viet Phap Steel Limited Company	Steel billets	Quang Nam	MF induction Furnace, casting machine	15%
4.	Dao Van Tung Household enterprise	Plastic products	Ha Noi	Plastic thread line	25%
5.	An Viet Fiber Joint Stock Company	Non-woven fabric	Long An	Non-woven fabric line	25%

There are some other projects on the way and expected to be accomplished in 2013

TT	Company	Sector	Location	Technology change	Estimated grant level
1.	Hung Thinh Garment and Textile Limited Company	Textile	Thai Binh	Boiler, pressured scouring, pressured winch, closed drying	25%
2.	Bac Giang Import and Export Joint Stock Company	Printing & Tissue Paper	Bac Giang	Dissolved Air Flotation	25%
3.	Bac Giang Import and Export Joint Stock Company	Printing & Tissue Paper	Bac Giang	Boiler	25%
4.	Bac Ha Paper Limited Company	Kraft paper	Bac Giang	Boiler	25%
5.	Tien Thanh Joint Stock Company	Kraft paper and packaging	Bac Ninh	Boiler	25%
6.	Van Gia Construction and Interior Decoration Limited Company	Construction material	Ninh Thuan	Non-fired brick production line	25%
7.	Hoang Ha Hai Phong Paper Joint Stock Company	Kraft paper and packaging	Hai Phong	Water recycling system	25%
8.	Hoang Ha Hai Phong Paper Joint Stock Company	Kraft paper and packaging	Hai Phong	Boiler	25%

2) DISSEMINATION ACTIVITIES

2 exhibition booths joined in ENTECH 2012 (23-26/5/2012) and Techmart 2012 (20 -23/9/2012) in Hanoi to introduce GCTF and some emerging technologies which can be applied for GCTF support. Target groups of the exhibitions vary from governmental officers, technology suppliers, manufacturing enterprises, consumers and consultancies.



GCTF was also introduced in different workshops in Son La, Ha Noi, Bac Ninh, Me Linh, etc. and through mass media such as websites, fan page, online magazines etc.

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COMING ACTIVITIES

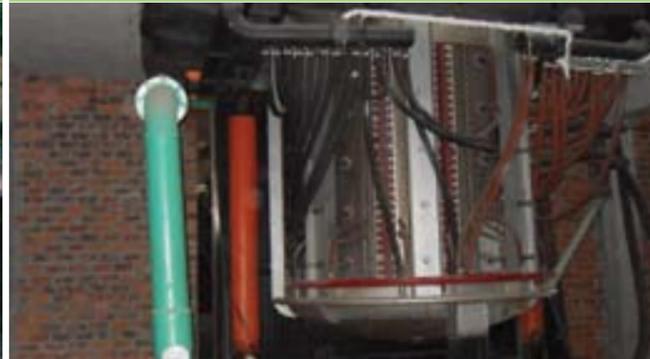
VNCPC is continuing support companies, who have registered projects, to fulfill their investment projects.

GCTF is propagated continuously through online and social marketing, workshops, exhibitions and in connection with other projects implemented by VNCPC in order to develop more clean technology investment projects.

Old manual furnace



Newly installed MF induction furnace



Obsolete non-woven fabric line



New PP Spunbond non-woven line with heat induction loop technology



VIETNAM PROVINCIAL ENVIRONMENTAL GOVERNANCE (VPEG)

BACKGROUND INFORMATION

- Sponsor: Government of Canada
- General objectives: support sustainable development process through enhancing environmental governance in Vietnam. The project promotes the application of pollution prevention approach and implementation of regulations on industrial pollution management in improving industrial pollution management capacity at local level. In addition, the project also supports Ministry of Natural Resource and Environment in improving the effectiveness of policies and relevant legislations.
- Implementation duration: 2009 - 2013 in Hanoi, Bac Ninh, Hai Duong, Da Nang, Binh Duong, Long An, Quang Ngai and Soc Trang.

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ACTIVITIES IN 2012

1) TRAINING ACTIVITY

Training activity of the project in 2012 aimed to equip consulting knowledge and in-company CP assessment skills for officials in industrial extension centers and CP promotion agencies in combination with practice in Hoa Phat Steel Company, Phuc Son Cement Company, Ut Xi Aquatic Products Processing Corporation and Sao Ta Foods Joint Stock Company.

No	Location	Sector	Content	Participants			Man. days
				Expert	LAR	ER	
1	Soc Trang province	Fisheries	Training on RECP assessment and consultation skills		11	10	63
2	Hai Duong province	Steel and cement	Training on RECP assessment and consultation skills		19	11	90
TOTAL					30	21	153

Training course in Hai Duong province



2) CP DEMONSTRATION AND ASSESSMENT ACTIVITIES

- CP assessment and demonstration activities in 3 targeted provinces of Hai Duong, Soc Trang and Long An were completed.
- Achieved results from the project's activities:

Economic benefits	<ul style="list-style-type: none"> - Invest 6,973,000,000 VNĐ and 735,000 USD. - Save 16,652,000,000 VNĐ from reducing resource consumption: 1,920,000 kWh of electricity, 516 tons of steel, 36,515 m³ of water and 50.4 tons of seafood.
Environmental benefits	<p>Reduce a large amount of effluents to the environment (calculated on the basis of one year) as following:</p> <ul style="list-style-type: none"> - Wastewater: 36,515 m³ - Solid waste: 566 tons - Emission: 1,382 ton of CO₂.

Guidance on how to assess the quality of cooling water in refrigeration condensing tower.



Guidance on on-site RECP assessment to the participants



Practical guidance on on-site electricity measurement



Practical guidance on on-site electricity measurement



COMING ACTIVITIES

In 2013, VNCPC continues to implement the project in 2 provinces of Soc Trang (2 fisheries companies) and Hai Duong (Hoa Phat Steel Company and Phuc Son Cement Company). The project is expected to be completed in March - 2013.

03



JOINT PROGRAM ON GREEN PRODUCTION AND TRADE TO INCREASE INCOME AND EMPLOYMENT OPPORTUNITIES FOR THE RURAL POOR (1UN)

BACKGROUND INFORMATION

- Sponsor: Millennium Development Goals Fund (MDGF)
- Implementation agencies: ITC, FAO, UNIDO, UNCTAD, and ILO
- Budget: 4,120,000 USD
- Duration: 36 months (2010-2012) extended to June 2013
- Objectives and participants: The Joint Program aims to increase income and employment opportunities for craft raw material growers and collectors and grassroots participating in producing handicraft products, targeting about 4,000 poor farming and crafts producing households in the four northern provinces of Vietnam (Nghe An, Thanh Hoa, Hoa Binh, Phu Tho).

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ACTIVITIES IN 2012

1) TRAINING ACTIVITY

No	Location	Sector	Content	Participants (Grassroots)
1	Thanh Hoa	Sea grass	Cleaner production	175
2	Thanh Hoa	Sericulture	Cleaner production	180
3	Nghe An	Sericulture	Cleaner production	180
4	Nghe An	Rattan/Bamboo	Cleaner production	240
5	Hoa Binh	Handmade paper	Cleaner production	150
6	Hoa Binh	Sericulture	Cleaner production	120
7	Hoa Binh	Rattan/Bamboo	Cleaner production	180
8	PhuTho	Sericulture	Cleaner production	75
9	Phu Tho	Lacquer	Cleaner production	60
10	Phu Tho	Rattan/Bamboo	Cleaner production	150
	TOTAL			1510

Training class in Yen Tap



Training class in Nga Son



Visiting and providing direct guidance and have discussion with the households



Providing guidance to the households



2) CP ASSESSMENT DEMONSTRATION ACTIVITY

Along with the training process for grassroots together with the results of quick and full CP assessments for the households and enterprises, the project selected 6 groups of households, co-operatives and 8 companies located in Project Area for further support with machineries equipment. So far, most of the equipment has been transferred to the beneficiaries and the achieved results are very encouraging. The equipped machineries will help households, cooperatives and enterprises to:

- Improve the productivity;
- Increase the product quality;
- Minimize the wastes;
- Circulate and create new high - value products;
- Save materials, energy, chemicals and water;
- Reduce hard works, especially for women.

Drying chamber in Hoang Long Company



Bamboo splitting machine in Quoc Dai Company



Bamboo and rattan processing machines in Ngoc Canh company



Nua bamboo splitting machine, sanding machine, and grinding machine in L&V company



COMING ACTIVITIES

In 2013, the project will select other 4 groups of households, co-operatives and 4 enterprises for further support with equipment and machineries. In addition, the components implemented by other organizations will continue with remaining activities.



RESPONSIBLE PRODUCTION PROJECT (RP)

BACKGROUND INFORMATION

- Sponsor: UNEP
- Implementing agency: VNCPC
- Duration: 9 months (June 2012 – March 2013)
- Objectives and target group: This is a demonstration project aiming to support Small and Medium Sized Enterprises (SMEs), which are considered as the backbone of the industry of developing countries, in order to improve chemical hazard management, increase overall safety and reduce chemical emergencies and their environmental, social and economic impact. This would be happened by helping companies address the hazards and risks related to the manufacturing, processing and handling of chemical substances in their operations. Two companies selected as pilot projects include NISHU Nam Ha Co., Ltd. and vậ Tien Nong Industrial & Agricultural JSC.



ACTIVITIES IN 2012

The activities at selected enterprises include:

- Short training seminar on RP with RP's CD toolkit provided for staff.
- RP team formation.
- RP assessment at pilot projects.
- Advising on RP-related fields: material, energy, water efficiency and waste management.

Two pilot projects followed the methodology equipped with sufficient RP tools, which are provided in RP toolkit CD.

Training for staff of NISHU Nam Ha Company



Direct discussion with RP team of NISHU Nam Ha



Assess the performance of RP-related aspects



COMING ACTIVITIES

The project will continue RP assessment in two pilot companies following the designed RP methodology in 2013. The RP tools application in combination with active participation of RP teams and technical support from VNCPC experts will bring in a more practical and efficient chemical management program. The project is expected to be accomplished in March 2013.



CONSERVATION OF ENVIRONMENT RESOURCES IN VIETNAM (CONSERV)

BACKGROUND INFORMATION

- Sponsor and associate: German Investment and Development Corporation (DEG) and PUMA (World Cat Vietnam Co. Ltd.)
- Implementing agency: ASSIST and VNCPC (technical consultancy)
- Duration: 17 months (Sep 2011 - Jan 2013)
- Objectives and target group: The project aims to help PUMA's suppliers in Vietnam apply Resource Efficiency and Cleaner Production (RECP) approach in reducing resource consumption and improve waste management. The project also incorporates experience-sharing, case studies and field trip to the factories. Through training and on-site assessment from technical consultancy, participating factories are expected to achievement improvement in resource conservation and waste management.



ACTIVITIES IN 2012

1) Training activity:
The following trainings were delivered by VNCPC for different target groups of participants within the project framework in 2011 and 2012.

Training workshop	Time	Number of participants
Awareness training	23 - 25/11/2011	79
ToT	9-11/4/2012 12-14/4/2012 16-18/4/2012	116
Extra-training	11/4/2012 and 26-28/4/2012	81



Besides training activities, 14 factories from PUMA's supply chain had joined the site assessment (quick assessment) to identify the RECP potentials. These enterprises received one-day assessment with the measurement and evaluation of VNCPC's experts. The project is finished in January 2013.



CEO WATER MANDATE (WATER CEO)

BACKGROUND INFORMATION

- Project name: CEO water mandate
- Donor: UNEP - CEO mandate
Objective: Improve the sustainable water consumption in Vietnamese apparel industry.
- Duration: 6/2011 - 5/2012



ACTIVITIES IN 2012

1) TRAINING ACTIVITIES

No	Venue	Sector	Content	Participant			Man-day
				Expert	LAR	ER	
1	HCMC		Conference in water consumption in Vietnamese Apparel industry	17	5	45	67
TOTAL				17	5	45	67

2) IN-PLANT ASSESSMENT AND CONSULTANCY

Project has operated in the period of 11 months from June 2011 to May 2012 with the fund from UNEP and other organizations in the CEO Mandate alliance to support the Vietnamese apparel enterprises to improve the use of water in production. After nearly one year of implementation through consultancy, experience sharing and information support through other channels, the project helped four businesses including Newell Nha Be, Formosa Taffeta, Lucretia, Hansae - Nike, Nautica, Levi's and H & M suppliers - increase the efficiency of water use as well as internal management. The final results revealed an annual saving of 2 billion VND approximately achieved by enterprises through the reduction of water use and effluent discharge volume. In addition, participating companies increase their production efficiency in most aspects such as housekeeping, energy use ... Through that, enterprises have saved some more billions VND in annual operation costs. However, the project period is relatively short to see the the full improvement impacts as the decision from the factory took lots of time.



Conference on sustainable water consumption in Vietnamese apparel industry



The newly installed condensate circulation system in Lucretia factory



POLICY ADVICE ON ENVIRONMENT, GREEN INDUSTRY DEVELOPMENT, HOI AN ECO-TOWN DEVELOPMENT COMPONENT (FB/VIE/11/002) (GI)

BACKGROUND INFORMATION

- Sponsor: UNIDO
- General objectives: To help Vietnam develop Hoi An into the first pilot eco-town of the country through the program “Green Industry”. The project’s components on Resource Efficiency & Cleaner Production (RECP) and Corporate Social Responsibility (CSR) aim to reduce natural resources consumption and minimize the pollution in principal business activities in Hoi An. The component will advise the enterprises/households to comply with RECP approach, raise awareness in CSR and propose options for Design for Sustainability (D4S).
- Duration: September 2011 to March 2012



ACTIVITIES IN 2012

1) CP ASSESSMENT AND DEMONSTRATION, RESOURCES EFFICIENCY AND CSR

Implementation: Complete RECP/CSR assessments in 9 hotels: Golf Hoi An hotel, Indochina hotel, Hoi An hotel, Hoi An beach resort, Victoria Hoi An beach resort, Thanh Van hotel, Vinh Hung 3 hotel, Pacific hotel, Hoi An laundry workshop.

VNCPC experts conducted consultation to Hoi An beach resort team



Results: Initial statistics from hotel enterprises

Economic benefits	Save 175.6 million VND from reducing resource consumption: 110,930 kWh of electricity, 1,145 m ³ of water...
Environmental benefits	Reduce a large amount of effluent to the environment (calculated on the basis of one year) as following: <ul style="list-style-type: none"> - Wastewater 1,145 m³ - Solid waste (hazardous waste): 450 blown-out bulbs - Emissions: 80 ton of CO₂.

2) TRAINING ACTIVITIES

VNCPC organized a two-day training course on resource efficiency - cleaner production and design for sustainability (D4S) for households in Hoi An craft villages. The training course’s objectives are to provide participants with basis knowledge about RE-CP and D4S, as well as RE-CP/D4S methodologies to enhance management skills in craft sector.

No	Location	Sector	Content	Participants			Man.days
				Expert	LAR	ER	
1	Hoi An	Craft village	Training on RECP and D4S		2	23	50
TỔNG					2	23	50



ECO-INNOVATION

BACKGROUND INFORMATION

- Sponsor (Or associate): the ASEN SMEs Eco-Innovation Center, The Korean Management Association Consulting (KMAC) organization.
- Implementation agency: VNCPC
- Duration: 3 months (9-11/2012)
- Project's objectives and participants: To help small and medium sized industrial production enterprises apply CP options, save energy to increase competition, reduce environmental pollution and enhance sustainable development.

ACTIVITIES IN 2012

The project selected 8 production enterprises operating in different fields of plastic, aluminum panel, motorcycle parts, tile, and textile in Northern provinces. The consultation process was divided into 2 phases: the first phase focused on investigating, collecting data, taking measurement in order to find out the options for the companies, and the second phase checked again the proposed options and monitored the results.

In general, most of the companies were enthusiastic to participate in the project and achieved encouraging results. Besides, during the consultation process, the project also helps the enterprises to build loan application document for technological change to access preferential financial funds. At present, Hung Thinh Company has finished their technical document to access Green Credit Trust Fund (GCTF).

RESULTS FROM RECP IMPROVEMENT

Nr.	Enterprise name	Nr of options generated	Expected energy savings	
			Electricity (kWh)	Coal (tons)
1	Phong Nam Plastic company	7	534,157	
2	Viet Dung Aluminum Panel Company	3	649,469	
3	PAROSY company	6	57,984	5.04
4	Le Group company	7	139,604	
5	HANEL plastic company	5	241,283	2.66
6	PRIME Dai Viet company	4	135,389	1.65
7	Mai Van Dang Company	4	1,440	
8	Hung Thinh company	3	5,760	728.16

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02



Bad practice of turning on electricity at daytime

Cooling town is contaminated affecting the quality and performance

Taking measurements in the factory

Korean expert team were checking the consultation effectiveness in enterprises.

CONFERENCE AND EXHIBITION

From the 23rd to the 25th of May, 2012, VNCPC joined the International ENTECH Hanoi 2012 Exhibition with the title “Energy Efficiency and Environment”, which was held at the Vietnam Exhibition and Fair Centre (Hanoi). The Exhibition gathered the nearly 100 enterprises/organizations from Vietnam, Korea, China, Taiwan ... This was the meeting point for the technology providers, consultants with enterprises and consumers with the desire to promote the adoption of energy efficient and environmentally friendly technologies.

VNCPC booth at ENTECH 2012



The largest technology fair of last year in Vietnam was International Equipment and Technology Mart held on the 20th and the 23rd of September, 2012. VNCPC attended this fair as an organization providing technology, technological consultation, and financial support solutions for the enterprises who desire for technological innovation.

Services and technologies of VNCPC were introduced at TECHMART 2012



The products formed from the re-design and new-design collaborative process between VNCPC and PISICO (General Production Investment Service Import Export Company) have been introduced to the public in Vietnam Furniture & Home Furnishing Fair - VIFA HOME during the period from the 8th to the 11th of November, 2012. The designs by SPIN are diverse from outdoor furniture to dining table, candles holder, disk racks, desk lamp, kitchen equipment.... All these products have clearly sustainable features by utilizing superfluous pieces of wood during the production and minimizing the amount of glue used to connect the parts of products, which not only enhances the economy of products and minimizes the wastes but creates unique features and safety for workers and users also.

SPIN-designed product displayed at VIFA Home 2012



SPIN methodology was introduced to visitors of Life Style Craft Fair 2012



The products displayed in SPIN - FLS store at Lifestyle crafts Fair from the 18th to the 22th of April, 2012 are result of the collaboration between the SPIN project team of VNCPC and the companies in the furniture and handicrafts sectors.

The booth introduced living spaces of completed houses including living room, dining room, and bedroom with products such as: reading lights, decorative lights, ceramic bowl with special part containing water for moisturizing and keeping fruits fresh, impressive hanging lamps from recycled materials or “Lung”, which is a typical material of Nghe An province, or colorful sea-glass rugs made from sea-glass wastes.

SPIN furniture products displayed in Life Style Craft Fair 2012



THE OUTLOOK

With the achievements as well as experiences withdrawn during the past 15 years, VNCPC will continuously improve the quality of services in order to focus the development of VNCPC in:

- Develop and implement the projects on sustainable consumption and production along the value chain;
- Apply eco-industrial initiatives in the sustainable development of Vietnamese industrial parks and responding with climate change;
- Research on product innovation and sustainable consumption;
- Integrate issues on resource efficiency and cleaner production, energy efficiency, improvement of corporate social responsibility to enhance the competitiveness of Vietnamese and regional enterprises in the context of international integration.
- Continue networking and cooperation;
- Contribute to the development of green industry to implement green growth strategy of the country.

ABBREVIATIONS

AIT-VN	Asian Institute of Technology in Vietnam
ASSIST	Asia Society for Social Improvement and Sustainable Transformation
CGTV	Consultant
CP	Cleaner Production
CSR	Corporate Social Responsibility
DANIDA	Danish International Development Agency
D4S	Design for Sustainability
EE	Energy Efficiency
EMS	Environmental Management System
ER	Enterprise's Representative
EU	European Union
FAO	Food and Agriculture Organization of the United Nations
GCTF	Green Credit Trust Fund
GGVN	GetGreen Vietnam
GI	Green Industry
ILO	International Labor Organization
ITC	International Trade Commission
LAR	Local Authority's Representative
RECP	Resource Efficiency and Cleaner Production
SECO	the State Secretariat for Economic Affairs
SCP	Sustainable Consumption and
SPIN	Sustainable Product Innovation
TCĐP	Local organizations
TU Delft	Delft University of Technology
UNEP	United Nation Environmental Program
UNIDO	United Nation Industrial Development Organization
UNCTAD	United Nations Conference on Trade and Development
VACNE	Vietnam Association for Conservation of Nature and Environment
VINASTAS	Vietnam Standard and Consumer Association
VNCPC	Vietnam Cleaner Production Centre
VPEG	Vietnam Provincial Environmental Governance
VTC	Vietnam Television Corporation
VTV	Vietnam Television

*More profits,
less wastes,
and much more ...*



VIET NAM CLEANER PRODUCTION CENTRE

4th floor, C10 Building, Hanoi University of Science and Technology

Tel : 04 3868 4849

Fax : 04 3868 1618

Email : vncpc@vncpc.vn

Webstie : www.vncpc.vn