

FACT SHEET BROCHURE  
SWITCH-ASIA PROGRAMME

# 80 PROJECTS AT A GLANCE



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by the European Union



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EuropeAid Development and Cooperation Directorate-General  
Geographical Coordination Central Asia, Middle East/Gulf, Asia Regional Programmes  
Rue Joseph II 54, 1000 Brussels, Belgium

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Design: Katharina Olma

For more information on the programme also visit: [www.switch-asia.eu](http://www.switch-asia.eu)

Asia has become the world's main manufacturing region and has an estimated thirty million small and medium-sized enterprises (SMEs) making up about 80% of industry. These companies have now the opportunity to grow their businesses by adapting less polluting technologies and practices, leaving the old paradigm of "grow first, clean up later". Making a switch to sustainable patterns of production benefits the environment, society and the economy. Take-up of environmentally friendly practices benefits the poor via preserving their health and livelihoods. Saving natural resources leads to economic benefits like reduction of operating costs. Not only small businesses, but also their customers such as the fast growing middle-income consumers hold the opportunity to embark on environmental friendly behavior. They can achieve better living standards, health benefits and, at the same time preserve precious natural resources. Indeed, achievement of economic prosperity in the long-term is tightly linked to the environmental, social and economic aspects of development.

Consequently, the European Union (EU) has made the issue of 'sustainable consumption and production' a priority in its regional cooperation strategy for Asia in 2007-2013 as well in 2014-2020. Already in 2008 the European Commission launched SWITCH-Asia programme promoting sustainable consumption and production patterns to help interested consumers, businesses, and supporting associations switch to a more sustainable paradigm.

Hence, SWITCH-Asia supports the sharing of knowledge and development of local capacities for scaling-up responsible business practices within global and local value chains. If increasing number of SMEs can make a switch to more resource efficient ways of production and emit less waste and pollution, then the living conditions of poor households can be substantially improved and innovative business solutions can emerge. This also means savings on resources and support to green and low-carbon growth, not to mention the improved access to the supply chains of multinational companies that seek to establish green and fair conducts within their value chains. This brochure provides an overview of the projects funded by the SWITCH-Asia Programme. SWITCH-Asia Grant Projects constitute the largest component of the SWITCH-Asia Programme. This is successfully complemented with National and Regional Policy Support Components, and a dedicated Network Facility.

The European Commission would like to encourage all applicants to consider the activities of the recent projects and go beyond these efforts by getting further inspiration at the SWITCH-Asia website [www.switch-asia.eu](http://www.switch-asia.eu).

Dirk Meganck  
Director

EuropeAid Development and  
Cooperation Directorate-  
General European Commission



## EuropeAid

The SWITCH-Asia Programme aims to contribute to economic prosperity and poverty reduction in Asia by promoting sustainable consumption and production. The first phase of this programme started in 2007 with an overall budget of approximately EUR 150 million. The second phase of SWITCH-Asia is scheduled to start in 2014 with a comparable budget and layout.

Sustainable consumption and production (SCP) is a comprehensive approach from a systemic and life-cycle perspective. SCP aims to decouple economic growth from environmental degradation. It is about “the use of services and related products, which respond to the basic needs and bring a better quality of life while minimising the use of natural resources and toxic materials as well as the emissions of waste and pollutants over the life cycle of the services or product so as not to jeopardise the needs of further generations” (Oslo symposium, 1994).

The SWITCH-Asia Programme focuses on production performance of small and medium-sized enterprises (SMEs), which form the backbone of the economy of Asian countries. SWITCH-Asia also addresses Asia’s consumers, as they have an enormous potential for driving the “switch” through their purchasing choices guided by sustainable consumption strategies. In addition governments and financial institutions are key actors in promoting sustainable consumption and production. The SWITCH-Asia Programme seeks to engage them in the implementation of the projects.

There are three strategic and intertwined components in the SWITCH-Asia Programme to secure a significant impact: Grant Projects, a Network Facility and a Policy (Regional and National) Support Component.

The tools and technologies needed to implement SCP practices are readily



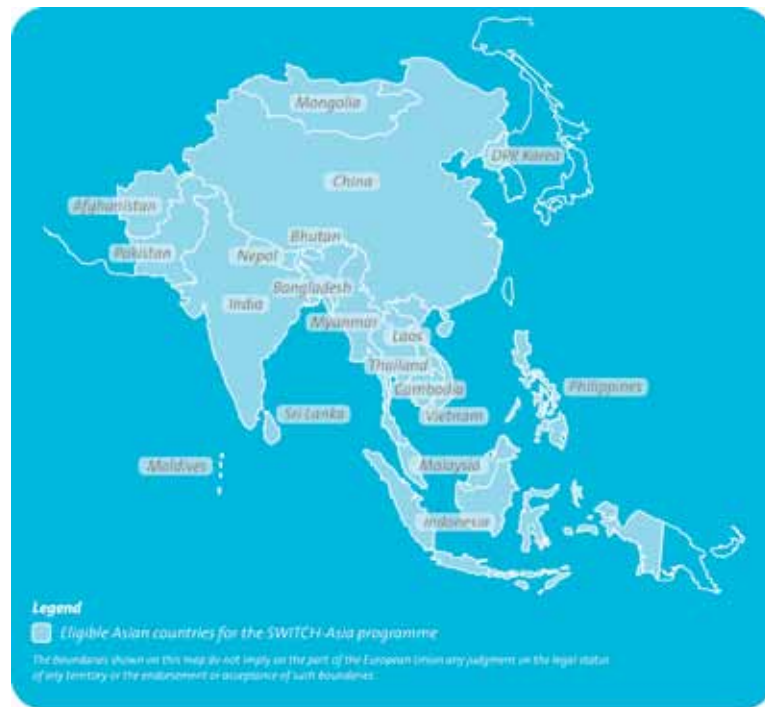
available today. The current challenge is to make them more widely and easily accessible. The SWITCH-Asia Programme is identifying and disseminating the knowledge needed to scale up SCP practices. The strength of this regional programme is the opportunity to compare and study common trends and identify successful actions that can help to scale-up sustainable consumption and production practices in a fast pace across the region.

In the first phase of the SWITCH-Asia Programme, a vast array of good practices on sustainable production and consumption have been developed and demonstrated. The second phase of the programme aims to move further by researching, publishing and informing about regionally available green finance opportunities. The projects funded under the programme should make use of mechanisms to scale-up the demonstrated good practices. Such scaling up can be achieved through multi-stakeholder approaches, for example by building partnerships with service providers and actors along the supply chains. Involvement of policy-makers, development of enabling policy environment for SCP and linking SMEs to financial institutions are all equally important.

As a regional programme, SWITCH-Asia aims to distil and disseminate successful approaches by the funded projects for scaling up SCP practises. The SWITCH-Asia Network Facility, established in 2008, distils lessons learned by individual projects to support exchange of information and sharing of know-how. It promotes scale-up, replication and dissemination of innovative SCP solutions through a combination of different tools (publications, website, events), thus maximising the impact of the projects.

The SWITCH-Asia Policy Support Components (PSCs) target national and regional policy frameworks and their potential to encourage the uptake of SCP practices. The regional PSC works with authorities in all Asian countries to initiate the formulation or strengthen policies for mainstreaming SCP, and it supports them in the design and implementation of policy-oriented activities, which support a shift towards SCP. At the national level the EU Delegations in Indonesia, Malaysia, the Philippines and Thailand, manage country specific programmes intended to work on national SCP action plans and to implement specific policy instruments promoting SCP.





Through grant projects the European Commission is making financial and technical support available for EU-Asia partnerships of non-profit organisations interested in sustainable consumption and production (SCP) in 19 eligible Asian countries: Afghanistan, Bangladesh, Bhutan, Cambodia, China, DPR Korea, India, Indonesia, Laos, Malaysia, Maldives, Mongolia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Thailand and Vietnam.

Since 2008 the EU published five Calls for Proposals. By 2014, 80 grant projects are co-funded. The project consortia put in place a wide range of SCP practices, especially cleaner production and sustainable product design. They work in various sectors from textiles, electronics, utilities, food and beverages, to tourism. The priority target group is SMEs, which means they are putting emphasis on up-

stream activities in the production chain. However, they increasingly find market-pull strategies and downstream activities, such as end-of-life management, essential for making a switch in markets and having a stronger impact along the product chain. The projects target as well governments and consumers.





The Programme, including the grant projects and the Policy Support Components, is being implemented in all of the eligible Asian countries (in lighter blue in the map above).

The SWITCH-Asia Programme is managed by the EuropeAid Development and Co-operation Directorate General of the European Commission. After the selection of successful applications, awarded grants are then managed from the EU Delegations in the eligible Asian Countries.

**switchasia**  
PROGRAMME



[WWW.SWITCH-ASIA.EU](http://WWW.SWITCH-ASIA.EU)

-  **SWITCH-Asia Programme**
-  **#NetworkFacility**
-  **SWITCH-Asia group**
-  **SWITCH Asia channel**

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## THE CHALLENGE

Asia's population and economies continue to grow resulting in an increasing consumption of limited natural resources. In Asia and Europe extensive knowledge already exists on resource saving, sustainable consumption and production (SCP). Excellent strategies, technologies, and practices have been demonstrated to make production and consumption more sustainable. However, replication and up-scaling of such pilot projects has thus far been limited and vast potential still remains for a broader uptake and extensive application. The SWITCH-Asia Network Facility focuses on identifying and disseminating information on SCP tools, technologies and practices to facilitate and extend the uptake of SCP solutions.

## THE OBJECTIVES

The Network Facility contributes to the effectiveness of the SWITCH-Asia Programme by facilitating networking and knowledge sharing among projects and with Programme stakeholders, in order to maximise the impacts of individual project activities and promote their replication.

## THE WAY FORWARD

- Providing information on the SWITCH-Asia Programme, its projects and SCP;
- Distilling knowledge of project practices to facilitate exchange of information, effective replication and up-scaling so to best communicate their achievements and maximise their results;
- Organising thematic and networking events to facilitate exchange of know-how and best practices within the Programme and with extended stakeholders, thus increasing the impact and support long-term sustainability of respective actions;
- Publishing and disseminating studies, reports and information information material on SCP.

## PARTNERS (AS OF 09/2014)

- GFA Consulting Group (GFA)
- Collaborating Centre on Sustainable Consumption and Production (CSCP)

## CONTACT DETAILS

Dr. Uwe Weber  
Team Leader  
+49-202-459-58-14  
uwe.weber@scp-centre.org  
Collaborating Centre on Sustainable Consumption and Production (CSCP),  
Hagenauer Straße 30,  
42107 Wuppertal  
Germany

[www.switch-asia.eu](http://www.switch-asia.eu)



**Duration** 9/2008 – 12/2017  
**Total budget** EUR 7,030,000

## THE CHALLENGE

People, communities and businesses in rapidly developing Asia strive for opportunities associated with economic development and the associated improvement of wellbeing and reduction of poverty. Governments have come to an understanding that the future prosperity of the region will crucially depend on enabling environmentally sustainable development.

## THE OBJECTIVES

The regional policy support component (PSC) exists to create an enabling environment to strengthen or initiate policies helping to mainstream sustainable consumption and production (SCP) and resource efficiency (RE) in regional, sub-regional and national development programmes. The regional action aims to assist stakeholders in the project countries (government, private sector, civil society), in designing and implementing specific policy-oriented activities to shift towards Sustainable Consumption and Production.

## THE WAY FORWARD

The regional component envisions decision makers in the public sector have a better understanding of the benefits of SCP and RE, and apply SCP policies. It facilitates inter-ministerial and public-private policy dialogues on SCP that is strengthened and institutionalised via formal platforms, learning from existing initiatives such as the Retail Forum in the EU. The regional PSC puts SCP on the regular agenda of sub-regional policy dialogue platforms and its results are fed into the 10 Year Framework of Programmes so that Governments in the region can receive more tailored support from this global framework to realise the long-term economic and social potential of SCP.

## THE NATIONAL PARTNERS

The regional component implemented by UNEP addresses all countries eligible under the SWITCH-Asia Programme. Focal points in all governments of the SWITCH-Asia countries have been established and UNEP is in direct contact with all of them.



**Duration** 1/2011 – 6/2016  
**Project Funding** EUR 7,200,000 (EU Contribution 85%)

## IMPLEMENTING BODY

UNEP

## CONTACT DETAILS

Dr. Stefanos Fotiou  
UNEP Regional Coordinator  
switch.psc@unep.org  
U.N. Building 2 floor,  
Rajdamnern Nok Avenue  
Bangkok 10200  
Thailand

[www.unep.org](http://www.unep.org)



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## THE CHALLENGE

Until the year 2020 Malaysia wants to become a developed country. Already in the recent years Malaysia has established a conducive policy framework to develop along a sustainable and green path. However, coordination between government institutions and harmonisation of policies are required, to improve the ecological footprint of Malaysia.

## THE OBJECTIVES

The project intends to reduce the environmental impact resulting from behavioural patterns applied by Malaysian industry and from public and private consumption. To change both the consumer and the producer side means a significant societal change. The purpose of the project is to enhance the Malaysian SCP policy and institutional framework enabling consumers and producers in the country to apply SCP practices effectively.

## THE WAY FORWARD

The project assists the Malaysian government in establishing a national SCP Programme which will be a pillar in the next Malaysia Plan influencing a number of assisting policies.

## NATIONAL COUNTERPART

- Economic Planning Unit

## CONSORTIUM PARTNERS

- GFA Consulting Group (GFA)
- Adelphi
- Williams Business Consultancy

## CONTACT DETAILS

Mr. Gerhard Weihs  
Team Leader  
+603-88725204  
weihs\_consult@yahoo.de  
Economic Planning Unit  
Prime Minister's Department  
B, Block B5, Level -1  
Putrajaya  
Malaysia

[www.switch-asia.eu/policy-support-components/psc-malaysia](http://www.switch-asia.eu/policy-support-components/psc-malaysia)



**Duration** 2/2012 – 1/2017  
**Total budget** EUR 2,000,000

## THE CHALLENGE

Thailand is, just like many other countries, facing serious environmental challenges due to rapid industrial and economic growth. Significant environmental degradation can be observed, e.g. mangrove deforestation, diminished forest cover, water and air pollution and increasing waste amounts.

## THE OBJECTIVES

The overall objective of the project is to support the Thai government in selecting, adapting and implementing suitable economic and regulatory policy instruments to promote SCP, hereby enhancing the long-term sustainability of Thai consumption and production patterns.

## THE WAY FORWARD

Working with five main organizations dealing with SCP in Thailand, the project has:

1. Recommended the establishments of a national SCP coordination body to strengthen the current SCP efforts and reach out to other SCP issues;
2. Developed a national SCP monitoring system with indicators and tested the areas of green procurement, green industry and SCP awareness;
3. Held 4 roadshows to communicate the benefits of green public procurement to more than 600 public officers around the country;
4. Developed a simple life cycle costing tool;
5. Strengthened the green industry mark certification system and assisted a large number of companies to achieve the mark in different levels;
6. Collected baseline information on SCP awareness among local authorities and tested SCP awareness methodology in two municipalities;
7. Drawn and shared with stakeholders "lessons learned" from the project, while concurrently formulating an exit strategy to ensure long term sustainability of its results.

## NATIONAL COUNTERPARTS

- Department of Industrial Works
- Pollution Control Department
- Office of National Economic and Social Development Board
- Office of Natural Resources and Environment Policy and Planning
- Department of Environmental Quality Promotion



**Duration** 10/2011 – 10/2014  
**Total budget** EUR 2,000,000

## CONSORTIUM PARTNERS

- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ)
- Thai Environmental Institute (TEI)
- Collaborating Centre on Sustainable Consumption and Production (CSCP)

## CONTACT DETAILS

Mr. Niels Juul Busch  
Team Leader  
+ 66-2661-9273  
niels.busch@giz.de  
193/63 Lake Rajada Office  
Ratchadapisek-Rama IV Rd.,  
Klongtoey Bangkok 10110  
Thailand

[www.scp-thailand.info](http://www.scp-thailand.info)

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### THE CHALLENGE

Over the past decade in particular, Indonesia has undergone a major economic and political transition. Progress has also been made to address climate change mitigation and adaptation in an integrated and coordinated way. However, existing policies only rarely address the consumption of goods and services as drivers of resource use.

### THE OBJECTIVES

The overall objective of the project is to strengthen the development and implementation of national policies on Sustainable Consumption and Production (SCP) in Indonesia.

### THE WAY FORWARD

The project promotes integrated and coordinated approach in supporting the development and implementation of national policies on SCP by strengthening a nation-wide implementation and facilitating the development of a National Action Plan, and identifying and evaluating options of financial mechanisms to promote SCP.

The project includes three components:

1. Creating the framework for a consolidated national SCP policy;
2. Support to SCP policy implementation;
3. Financial mechanisms, incentives and policy instruments for SCP promotion.

### NATIONAL COUNTERPART

- KLH, Ministry of Environment



**Duration** 2/2012 – 1/2015

**Total budget** EUR 2,000,000 from the Delegation of the European Union to Indonesia

### THE CHALLENGE

The Philippines is recognised for having adopted a comprehensive Sustainable Consumption and Production (SCP) legal framework. In a country with a booming economy however, priority is still given to unsustainable modes of production. The Government of the Philippines is faced with the relatively new challenge to curb existing practices and to shift towards new modes of production and consumption.

### THE OBJECTIVES

To promote sustainable development and support the government in implementing Sustainable Consumption and Production (SCP) related policies.

### THE WAY FORWARD

1. Facilitation of the implementation of clean energy and energy efficiency policy/regulation.
2. Expansion of the green procurement and eco-labelling programmes to new government bodies and new products.
3. Capacity strengthening to address priority cross-cutting SCP matters including clean air legislation.

### NATIONAL COUNTERPARTS

- Department of Environment and Natural Resources
- Department of Energy



**Duration** 7/2012 – 12/2016

**Total budget** EUR 3,500,000

### CONSORTIUM PARTNERS

- GFA Consulting Group (GFA)
- Asian Management Consulting (AMC)
- Indonesian Consumer Organization (YLKI)

### CONTACT DETAILS

Mr. Edzard Ruehe  
+62-21-85904928  
edzard.ruehe@amconsult.com  
Team Leader  
Ministry of Environment,  
Jalan D.I. Panjaitan Kav. 24, Kebon  
Nanas, Jakarta Timur 13410  
Indonesia

[www.switch-asia.eu/policy-support-components/psc-indonesia/](http://www.switch-asia.eu/policy-support-components/psc-indonesia/)

### CONSORTIUM PARTNERS

- GFA Consulting Group (GFA)
- Assist
- Ecorys
- Millieu

### CONTACT DETAILS

Dr. Juergen Bischoff  
+63-9176936512  
bischoff@scp-ph.eu  
EMB, Department of Environment  
and Natural Resources  
Visayas Avenue  
Diliman, Quezon City  
Philippines

[www.switch-asia.eu/policy-support-components/psc-philippines/](http://www.switch-asia.eu/policy-support-components/psc-philippines/)

## IMPLEMENTATION OF ENVIRONMENTAL MANAGEMENT SYSTEMS AND ECO-LABELLING SCHEMES IN THE SMES OF THE LEATHER SECTOR IN BANGLADESH

### THE CHALLENGE

The leather industry is a fast growing and vital component of Bangladesh economy. However, the leather sector is very polluting and causes harmful impacts both on the environment and human health. A deep analysis to identify the needs and constraints of the sector shows that the core of the problem is that the leather industry in the country is dominated by SMEs with critical lack of expertise and capacity to respond to environmental problems.

### LEAD PARTNER

Fundación Tecnalia Research & Innovation,  
Spain

### PARTNERS

- Leathergoods & Footwear Manufacturers & Exporters Association of Bangladesh (LFMEAB), *Bangladesh*
- Bangladesh Finished Leather, Leathergoods & Footwear Exporters' Association (BFLFEA), *Bangladesh*
- Bangladesh Tanners Association (BTA), *Bangladesh*

### CONTACT DETAILS

Mr. Javier del Pozo Moro  
+34-946-430-850  
javier.delpozo@tecnalia.com  
Parque Tecnológico de Bizkaia,  
E480160 Derio (Bizkaia)  
Spain

### THE OBJECTIVES

The project promotes resource efficiency and sustainability of the leather sector in Bangladesh throughout the whole value chain of the leather related products such as footwear and other leather goods.



### THE WAY FORWARD

- Implementing Life Cycle Assessment (LCA) to identify the key hotspots along the leather goods value chain and a Best SCP Practices Programme in 20 leather sector SMEs;
- Certification of 20 leather sector SMEs in Environmental Management Systems (ISO 14001);
- Creating a panel of 100 national experts in SCP practices and certification models to assure the continuation;
- Designing and developing Eco-label Scheme for leather footwear sector;
- Creating market demand of eco-labelled leather footwear among consumers and intermediate agents;
- Training of 50 policy-makers in sustainability practices;
- Facilitation of the access to "Green financing" for SMEs by engaging financial institutions;
- Disseminating of the outcomes through the elaboration and implementation of a "Communication and Visibility Plan".



**Duration** 3/2014 – 3/2018

**Total budget** EUR 2,089,982.00 (EU contribution: 90%)



### FUNDACIÓN TECNALIA RESEARCH & INNOVATION (TECNALIA)

As a lead partner, TECNALIA is responsible for overall management and implementation. It provides technical consultation on studies and eco-label guidelines development.

Mr. Javier del Pozo Moro  
javier.delpozo@tecnalia.com



### LEATHERGOODS & FOOTWEAR MANUFACTURERS & EXPORTERS ASSOCIATION OF BANGLADESH (LFMEAB)

LFMEAB is a partner and plays a role in diagnosis study of leather manufacturing process in the country, in consultation workshops and roundtables, and in SMEs selection.

Mr. Kazi Roushan Ara  
lfmeab60@gmail.com



### BANGLADESH FINISHED LEATHER, LEATHERGOODS AND FOOTWEAR EXPORTERS' ASSOCIATION (BFLFEA)

As a partner, BFLFEA plays a role in diagnosis study of leather manufacturing process in the country, in consultation workshops and roundtables, and in SMEs selection.

Mr. M. Abu Taher  
bflfeas@yahoo.com



### BANGLADESH TANNERS ASSOCIATION (BTA)

BTA is a partner and plays a role in diagnosis study of Bangladesh leather manufacturing process, in consultation workshops and roundtables, and in the implementation of SCP best practices.

Mr. Abu Tariq Mohammad Zaki  
tariqzaki@gmail.com  
tanners@netzbd.com



**EuropeAid**

**PROMOTING SUSTAINABLE CONSUMPTION AND PRODUCTION OF JUTE DIVERSIFIED PRODUCTS**

**THE CHALLENGE**

Jute (known as the Golden Fibre) played a significant role in the economic prospect of Bangladesh. Over the recent past years, the Jute Diversified Products (JDPs) received further attention as the natural character of jute fibre attracts consumers. However, the jute growers are facing problems to access good quality and high yielding seeds and appropriate technologies to reduce cost of production. Moreover, due to the fragmentation of the rural market chain, the growers are not getting a fair price for their production. This leads less interest to cultivate jute. The workers engaged in production lack adequate skills for maintaining quality of products and hence lose the interest of buyers.

**LEAD PARTNER**

CARE France

**PARTNERS**

- Sheba Manab Kallyan Kendra (SMKK), Bangladesh
- UTTARAN, Bangladesh
- Debi Chowdhurani Palli Unnayan Kendra (DCPUK), Bangladesh
- Eco Social Development Organization (ESDO), Bangladesh

**CONTACT DETAILS**

Mr. Santiago Nuñez Regueiro  
+33-1-53-19-89-94  
nunezregueiro@carefrance.org  
71, Rue Archereau  
75019 Paris  
France

**THE OBJECTIVES**

The project seeks to contribute to pro-poor economic growth through social business promotion with an emphasis on sustainable agriculture sector growth and poverty reduction in Bangladesh. Specifically it aims at strengthening the exports competitiveness of Bangladesh through promotion of environment friendly jute diversified products.



**THE WAY FORWARD**

- Workforce empowerment of poor men and women working in the jute supply chain through skills development, micro-enterprise training, business and professional training;
- Mobilisation and promotion of producers' & small entrepreneurs' groups to improve productivity and market access;
- Development of producers' groups for technology transfer for high yield jute variety and retting;
- Value addition processing, diversification and packaging of jute products through business and market intermediaries' engagement;
- Marketing and development of jute supply chain;
- Promotion of efficient public-private partnership;
- Partnership and engagement of public-private institutions.



**Duration** 3/2013 – 8/2016

**Total budget** EUR 2,222,170 (EU Contribution: 90 %)



**CARE FRANCE**

CARE France is the lead partner and responsible for monitoring the project activities and outcomes as well as providing guidance. It also promotes JDPs on the European market and links international buyers with national entrepreneurs.

Mr. Santiago Nuñez Regueiro  
nunezregueiro@carefrance.org

Mr. Saif Mohammad Moinul Islam  
saif@bd.care.org



**SHEBA MANAB KALLYAN KENDRA (SMKK)**

SMKK is a project partner. It contributes in community mobilisation and field implementation in the targeted four districts.

Mr. Manjur Kadir  
ngo@smkk.org or  
smkk@khulna.bangla.net



**UTTARAN**

UTTARAN is a project partner. It plays a role in addressing national level business and market intermediaries, which will promote small entrepreneurs at rural level.

Mr. Shahidul Islam  
uttara.dhaka@gmail.com



**DEBI CHOWDHURANI PALLI UNNAYAN KENDRA (DCPUK)**

DCPUK is a project partner. It helps project to address national level business and market intermediaries, and to carry out field level activities.

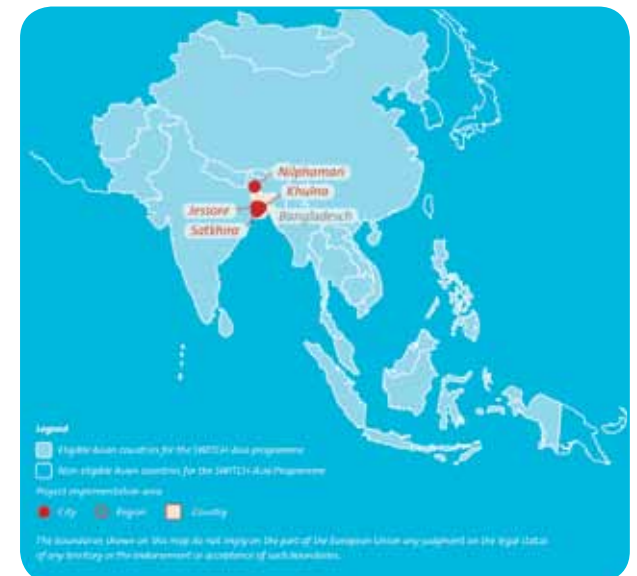
Mr. Nurul Islam Dulu  
nislamdcruk@yahoo.com



**ECO SOC DEVELOPMENT ORG (ESDO)**

ESDO is a project partner. It contributes in community mobilisation and field implementation, including selection of beneficiaries, conducting trainings and analyses, and supporting community platforms.

Mr. Md. Shahid Uz Zaman  
esdobangladesh@hotmail.com or  
zamanesdo@gmail.com





## GREEN PUBLIC PROCUREMENT IN BHUTAN: A CROSS SECTORAL STRATEGY FOR SUSTAINABLE INDUSTRIAL COMPETITIVENESS

## THE CHALLENGE

The project establishes a strategic approach for the government to scale-up public demand for environmentally and socially preferable goods, services and infrastructure. It will provide a cross-cutting industrial strategy to support Gross National Happiness and the stewardship of natural resources, which together form the core of Bhutanese development priorities.

## LEAD PARTNER

International Institute for Sustainable Development (IISD), Canada

## PARTNERS

- Bhutan Chamber of Commerce and Industry (BCCI), Bhutan
- Royal Society for the Protection of Nature (RSPN), Bhutan
- Royal Institute of Management of Bhutan (RIM), Bhutan
- Collaborating Centre on Sustainable Consumption and Production (CSCP), Germany

## ASSOCIATES

- Public Procurement Policy Division (PPPD), Ministry of Finance, Bhutan
- Druk Holding & Investments (DHI), Bhutan
- Ministry of Works and Human Settlement (MoWHS) - Public Procurement Division, Bhutan

## CONTACT DETAILS

Ms. Laura Turley  
+41-22-917-8282  
lturley@iisd.org  
9 chemin de Balexert  
1219 Châtelaine  
Geneva  
Switzerland

Twitter: @GPPBhutan

[www.gppbhutan.bt](http://www.gppbhutan.bt)

## THE OBJECTIVES

The project aims to leverage GPP as a powerful up-scaling tool to 1) lower the direct impact of state-consumption, 2) incentivise sustainable production among suppliers, 3) build demand-side and supply-side capacity, and 4) trigger private sustainable consumption and green economic transformation.

## THE WAY FORWARD

- Establishing 'soft law' on GPP in Bhutan;
- Developing dedicated GPP guidance material for public procurers;
- Designing preferential programmes for SMEs and disadvantaged suppliers;
- Designing and facilitating GPP training sessions for public procurers and suppliers;
- Mentoring real-time GPP pilot tenders in selected industrial sectors;
- Providing for long-term GPP implementation by establishing a GPP knowledge platform and curricula.



**Duration** 1/2014 – 7/2017

**Total budget** EUR 2,132,307.25 (EU contribution: 90%)



## INTERNATIONAL INSTITUTE FOR SUSTAINABLE DEVELOPMENT (IISD)

IISD is the lead partner and responsible for the overall project coordination and implementation.

Ms. Laura Turley  
lturley@iisd.org

Mr. Tilmann Liebert  
tliebert@iisd.org



## BHUTAN CHAMBER OF COMMERCE AND INDUSTRY (BCCI)

BCCI is a project partner. It leads the activities on supplier assessment and market assessment, and contributes in developing the guidance materials.

Mr. Kesang Wangdi  
wangdikesang@gmail.com



## ROYAL SOCIETY FOR THE PROTECTION OF NATURE (RSPN)

As a project partner, RSPN contributes in the design and implementation of the preferential purchasing programme for SMEs/Disadvantaged Suppliers and in the design of GPP curriculum.

Mr. Lam Dorji  
ldorji@rspnbhutan.org



## ROYAL INSTITUTE OF MANAGEMENT OF BHUTAN (RIM)

RIM is a project partner and co-leads the training of procurers and suppliers. It provides technical assistance to suppliers and contributes in establishing GPP Knowledge Platform.

Mr. Singhye Wangchuk  
singhye\_wangchuk@rim.edu.bt



## COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION (CSCP)

As a project partner, CSCP provides trainings for both demand-side and supply-side of SCP. It contributes in developing the monitoring and reporting systems.

Ms. Christina Raab  
christina.raab@scp-centre.org



**SUSTAINABLE TOURISM IN BHUTAN: AN INTEGRATED APPROACH TO PRODUCTION, CONSUMPTION AND LIVELIHOOD DEVELOPMENT**

**THE CHALLENGE**

The tourism industry plays a significant role in the socio-economic development of Bhutan. However, tourism can impact on the environment. A future sustainability of tourism will depend on greater participation from the tourism industry. This requires partnership and cooperation within the tourism industry, and between the industry, government, tourists and people. Local input and involvement are central for the longterm sustainability of tourism in the country.

**LEAD PARTNER**

Association of Bhutanese Tour Operators (ABTO), Bhutan

**PARTNERS**

- Megaskills Research Company Limited (MGS), UK
- Hotel Association of Bhutan (HAB)
- Guide Association of Bhutan (GAB)

**ASSOCIATES**

- Tourism Council of Bhutan (TCB)
- Nature Recreation and Eco-Tourism Division (NRED), Bhutan
- Royal Society for Protection of Nature (RSPN), Bhutan
- National Environment Commission (NEC), Bhutan

**CONTACT DETAILS**

Mr. Sonam Dorji  
+975-2-322862  
abto@druknet.bt  
Post Box 938, Doebum Lam,  
Thimphu – 11001  
Bhutan

**THE OBJECTIVES**

The project seeks to contribute to economic prosperity, poverty reduction and climate change mitigation in Bhutan through sustainable tourism development by promoting sustainable production and consumption practices across the tourism value chain coupled with sustainable livelihood development.



**THE WAY FORWARD**

- Facilitation of Low Carbon Public Private Partnership (PPP) of government, tourism industry, and key stakeholders;
- Development of 20 low-carbon tourism offers;
- Training of 15 local trainers and organizations of 70 stakeholder workshops addressing government and intermediary sectors;
- 10 local awareness workshops for 1,000 tourism enterprises to share the knowledge to end-user groups and enterprises in the tourism value chain;
- Creation of a special web portal and support centres in different provinces of Bhutan;
- Facilitation of links to financial institutes to provide environmental loans and micro-finance for capital improvements by enterprises.



**Duration** 1/2012 – 6/2015

**Total budget** EUR 1,205,654.60 (EU Contribution: 90%)



**ASSOCIATION OF BHUTANESE TOUR OPERATORS (ABTO), BHUTAN**

ABTO is the principal industry representative in Tourism Council of Bhutan and responsible for the overall project activities.

Mr. Sonam Dorji  
abto@druknet.bt  
sonamdorje@gmail.com



**MEGASKILLS RESEARCH COMPANY LIMITED (MGS), UK**

Megaskills Research provides international expertise in training of trainers and communication strategy.

Dr. Channa Wimal Gunawardena  
channa@megaskills.com



**HOTEL ASSOCIATION OF BHUTAN (HAB)**

HAB establishes networks between hoteliers and communities for production and consumption of green products.

Mr. Tashi Rabgyel  
hab@druknet.bt



**GUIDE ASSOCIATION OF BHUTAN (GAB)**

GAB is involved in the implementation and dissemination of information to guides, tourists, shops and local communities.

Mr. Sangay Phurba  
gab@druknet.bt



MAINSTREAMING ENERGY EFFICIENCY THROUGH  
BUSINESS INNOVATION SUPPORT CAMBODIA

## THE CHALLENGE

SMEs make up a crucial part of the Cambodian economy and form a crucial segment to enhance sustainable production in the country. Many SMEs in Cambodia work with outdated and inefficient technology. With energy prices being high, their inefficiency implies high production cost to the business, as well as high cost to the environment. Local available technologies are often not adopted due to several factors, amongst others:

- the lack of institutional capacity of existing installation-companies to adequately translate these technical solutions into business-smart, cost-saving products for SMEs,
- limited understanding of (the benefits of) these technologies
- limited access to external financing for SMEs.

## THE OBJECTIVES

The overall objective is to promote economic prosperity and poverty reduction in Cambodia with reduced adverse environmental impact of SMEs in selected sectors.

The specific objective is to improve the competitiveness of SMEs in selected sectors in Cambodia through commercially viable and scalable business innovation packages enabling SMEs to effectively invest in clean technologies for their business.



## THE WAY FORWARD

- Identifying viable product market combinations;
- Establishing partnerships with technology suppliers;
- Developing and providing business support packages for the different partner SMEs involved in the EE value chains;
- Developing commercial, self-propelling markets for EE technologies for SMEs;
- Mobilising access to finance for SMEs by identifying and building up partnerships with financial institutions;
- Dissemination of lessons, tools and materials, seeking opportunity to replicate.



Duration 1/2014 – 12/2017

Total budget EUR 1,996,196 (EU contribution: 90%)



## ETC FOUNDATION

ETC is the lead partner and responsible for the overall project management and implementation. ETC plays role in coordinating energy and business development for SMEs.

Mrs. Mayte de Vries  
m.de.vries@etcnl.nl



## RAINWATER CAMBODIA (RWC)

RWC is the main local partner, responsible for implementation of all activities in the country.

Mr. Ky Chanthan  
kychanthan@gmail.com



## ADAPPT

As project partner, AdaPPPT will provide international business and finance expertise.

Ms. Wieteke Gondrie  
wgondrie@encluesolutions.com



## REDUCING PLASTIC BAG WASTE IN MAJOR CITIES OF CAMBODIA

### THE CHALLENGE

Plastic bags are non-biodegradable and harmful to human health and to the environment. However, despite the environmental damage, highly visible throughout Cambodia, plastic bags remain popular due to their convenience: they are waterproof, lightweight, disposable, and affordable. As a result, they are used in Cambodia in a wide range of situations and sectors, from transporting solids and liquids, to direct consumption, to storing and packaging.

### LEAD PARTNER

Fondazione ACRA – CCS, Italy

### PARTNERS

- Department of Environment - Phnom Penh Municipality (DoEPP), Cambodia
- Royal University of Phnom Penh (RUPP), Cambodia

### ASSOCIATES

- Ministry of Environment (MoE) of the Royal Government of Cambodia
- National Committee for Clean City Assessment (NCCA), Cambodia
- Federation of Associations of Small and Medium Enterprises of Cambodia (FASMEC)
- Phnom Penh Capital Hall, Cambodia
- Provincial Hall of Preah Sihanouk, Cambodia
- Siem Reap Provincial Hall, Cambodia

### CONTACT DETAILS

Mrs. Francesca Agnello  
+ 39-02-27000291  
francescaagnello@acraccs.org  
Via Breda 54, 20126 Milano  
Italy

### THE OBJECTIVES

The project promotes sustainable growth and environmental sustainability in the country by changing consumption patterns and consumer behaviours to reduce plastic bag use and waste in major Cambodian cities.

### THE WAY FORWARD

- Conducting market research prior to the making of action plan for media and interpersonal communication campaign;
- Introducing incentive schemes for consumers. This activity will take place in supermarkets and markets in the three cities, within those entities that have signed Voluntary Codes of Practice (VCP).
- Drafting of guidelines for the design of alternative packaging products and systems;
- Conception of alternative packaging products;
- Training of local SMEs involved in the production of alternative packaging;
- Creation and strengthening of early adopters' groups of SMEs;
- Introducing incentives for vendors/SMEs;
- Drafting of guidelines to support the implementation of the prospective national law.



**Duration** 3/2014 – 2/2017

**Total budget** EUR 1,341,033.46 (EU contribution: 90%)



### FONDAZIONE ACRA – CCS

As lead applicant, ACRA – CCS will manage all project activities including implementation that addresses consumers by using specific communication channels.

Mrs. Francesca Agnello  
francescaagnello@acraccs.org

Mrs. Elisabetta Pontello  
elisabettapontello@acraccs.org



### DEPARTMENT OF ENVIRONMENT - PHNOM PENH MUNICIPALITY (DOEPP)

DoEPP is accountable for urban waste management for a city of over 1.3 million people.

Mr. H.E. Chiek Ang  
chiek\_ang@yahoo.com



### ROYAL UNIVERSITY OF PHNOM PENH (RUPP)

RUPP provides technical-centred research activities on plastic bags as well as compiling the baseline and undertaking data collection for monitoring and evaluation.

Mr. San Vibol  
secretary@rupp.edu.kh or  
sanvibol@gmail.com



## WASTE TO ENERGY FOR THE RICE MILLING SECTOR IN CAMBODIA

### THE CHALLENGE

The Cambodian rice milling industry is not competitive due to the high cost of energy, processing and logistics. Hence, available rice husk, once utilised as source of energy can reduce the rice milling cost and result in more competitive rice milling sector. Additionally, with the promotion of such waste to energy (WtE) technology, the rice sector in Cambodia can offer farmers greater opportunity for selling additional paddy to the local mills.

### LEAD PARTNER

SNV Netherlands Development  
Organisation, *Netherlands*

### PARTNERS

Federation of Cambodian Rice Millers  
Associations (FCRMA), *Cambodia*

### ASSOCIATES

- Ministry of Mines, Industry and Energy  
of Cambodia (MIME), *Cambodia*
- ANZ Royal and ACLEDA banks, *Cambodia*

### CONTACT DETAILS

Mr. Chheng Uddara  
+855-17-390-208  
dstc@isc.gov.kh  
#538, National road 2, Phnom Penh  
*Cambodia*

[www.snvworld.org/node/1795](http://www.snvworld.org/node/1795)

### THE OBJECTIVES

The project promotes sustainable production of milled rice through replication of existing WtE rice milling technologies, and sustainable consumption of rice. It seeks to consolidate fragmented guidelines into a single operational industry standard and to build a multi stakeholder platform with policy makers, SMEs and the financial sector.

### THE WAY FORWARD

- Establishment of a local expert centre to assess WtE systems and evaluate the field performance, environmental and health impacts;
- Development of specific guidelines to measure performance optimisation by testing prototype and technology transfer of risk husk gasifiers, and provides training and services for manufacturers and operators;
- Capacity building of 4 to 5 local WtE manufacturers and 120 rice millers, and establishment of business support service including access to loan;
- Contribution to the development and implementation of a national standard and license for manufacturing and installations;
- Development of different business models for different energy needs, financing options, and support to rice millers in making correct calculations and business plans.



**Duration** 1/2012 – 12/2015

**Total budget** EUR 2,152,546 (EU Contribution: 89%)



### SNV NETHERLANDS DEVELOPMENT ORGANISATION

SNV provides required capacity development services (CDS) to the other partners, beneficiaries and associates, and acts as a facilitator of the Waste to Energy (WtE) market.

Mr. Chheng Uddara  
dstc@isc.gov.kh



### FEDERATION OF CAMBODIAN RICE MILLERS ASSOCIATIONS (FCRMA)

FCRMA supports members in gaining access to export markets and it engages with banks to lobby for more financial investment.

Mr. Sophon Phann  
phannssophon@gmail.com





SUSTAINABLE PRODUCTION AND CONSUMPTION MODELS AND  
CERTIFICATION TOOLS IN CHINESE FOOD SUPPLY CHAINS

## THE CHALLENGE

The food industry represents nowadays a crucial motor for economic development. However, it has serious impacts on the environment due to water and energy consumption, and pollution of high organic strength liquids. The issue of occupational health and safety, and of product quality creates a great concern as well. Adding to this, the globalisation and changes in consumer's preferences contribute to the demise of traditional production systems and SMEs.

## LEAD PARTNER

Association of Industries for Electronic and Information Technologies in the Basque Country (GAIA), Spain

## PARTNERS

- China Agricultural University (CAU), China
- China General Chamber of Commerce (CGCC), China
- Chinese Institute of Food Science and Technology (CIFST), China
- China Meat Association (CMA), China
- Institute of Quality Standard and Testing Technology for Agro-Products (IQSTAP), Chinese Academy of Agricultural Sciences, China
- China Society of Commodity Science (CSCS), China

## ASSOCIATE

Federación Española de Industrias de la Alimentación y Bebidas, Spain

## CONTACT DETAILS

Mr. Jokin Garatea  
+34-943316666  
garatea@gaia.es  
Mrs. Begoña Benito  
benito@gaia.es  
Parque Tecnológico de Zamudio,  
Edif. 103, 2 Planta, 48170, Zamudio,  
Bizkaia  
Spain



## THE OBJECTIVES

The project seeks to contribute to the adoption of sustainable production practices in the food sector in Sichuan, Henan and Qinghai Provinces. Moreover, the project aims to contribute to the promotion of sustainable consumption by helping and encouraging consumers in making informed choices of sustainable and eco-efficient produced foodstuffs. Specifically, it aims at enhancing sustainable performance of production and consumption models in the Chinese Food Sector.

## THE WAY FORWARD

- Improving sustainability situation in 600 Chinese food processor SMEs using Design for Sustainability Method (D4S);
- Certification of 80 Chinese Food SMEs against the certification and eco/sustainable label;
- Conducting voluntary auditing programmes for evaluation against legal framework and Sustainability Conformity Model;
- Developing a Corporate Sustainable Reporting Scheme;
- Facilitating SME partnerships within the food industry;
- Strengthening links between EU and China through a European Asian cluster and networking platform.



**Duration** 4/2013 – 3/2016

**Total budget** EUR 1,563,635,76 (EU Contribution: 80%)

ASSOCIATION OF INDUSTRIES  
FOR ELECTRONIC AND INFORMATION TECHNOLOGIES IN  
THE BASQUE COUNTRY (GAIA)

GAIA is the lead partner of this project and responsible for overall management and implementation.

Mr. Jokin Garatea  
garatea@gaia.es

CHINA AGRICULTURAL  
UNIVERSITY (CAU)

As a partner, CAU participates in all activities related to the implementation of the Design for Sustainability Method in Food SMEs.

Mr. Zhang Xiaoshuan  
zhxshuan@cau.edu.cn

CHINA GENERAL CHAMBER  
OF COMMERCE (CGCC)

CGCC plays a role in the selection of SMEs that will participate in Voluntary Auditing Programme and Certification Process. Its key participation is in the replication of project results.

Mr. Liu Lixin  
13621059815@263.net

CHINESE INSTITUTE OF FOOD  
SCIENCE AND TECHNOLOGY  
(CIFST)

CIFST is responsible for gathering information on the Best SCP Practices in the area of food processing sustainability and for analysing end users' requirements.

Mr. Zhang Jian  
zhjoo1@cau.edu.cn

CHINA MEAT ASSOCIATION  
(CMA)

CMA's main role is in the analysis and implementation of end users' needs in the methodologies implemented. It also contributes in the selection, training and assistance of the Food SMEs.

Mr. Chen Wei  
chinameat@sina.com

INSTITUTE OF QUALITY STAND-  
ARD AND TESTING TECHNOLOGY  
FOR AGRO-PRODUCTS (IQSTAP),  
CHINESE ACADEMY OF  
AGRICULTURAL SCIENCES

IQSTAP plays a role in defining the Sustainable Standard guidelines, developing a Certification Scheme and new eco/sustainable label.

Mr. Chen Song  
Caas-chensong@163.com

CHINA SOCIETY OF  
COMMODITY SCIENCE (CSCS)

CSCS plays a role in the evaluation of the consumer point of view on the sustainable products, sustainability practices and eco-labels.

Mr. Fu Xuzhe  
Xuzhefu2000@163.com



## GREENING FOOD PRODUCTION AND CONSUMPTION: TRANSFORMING THE HIGHLY-POLLUTING AND RESOURCE-CONSUMING EDIBLE BAMBOO SHOOT INDUSTRY INTO A SUSTAINABLE VALUE CHAIN IN CHINA

### THE CHALLENGE

There is an urgent need in China for increasing safety and green practices in agro-food processing. At present, overuse of preservatives, mainly salt and sodium pyrosulfite; water pollution; and low resource efficiency are pervasive. In the preserved-food industry, polluting production practices are rife, especially with bamboo shoot in Sichuan, where preservatives are often used in concentrations at least 50 times higher than the maximum allowable limit according to Chinese national standards (0.2%).

#### LEAD PARTNER

Zhejiang A and F University (ZAFU),  
China

#### PARTNERS

- International Federation of Organic Agriculture Movements (IFOAM), *Germany*
- International Network for Bamboo and Rattan (INBAR), *China*
- Zhejiang Provincial Association for Small and Medium Enterprises (ZJSME), *China*
- Association for the Bamboo Industry of Anji, Zhejiang (ZJBAMBOO), *China*
- Sichuan Provincial Association for Small and Medium Enterprises (SCSME), *China*
- Association for the Bamboo Industry of Yibin, Sichuan (SCBAMBOO), *China*

#### ASSOCIATES

- Citi Foundation – China Office, *China*
- Zhejiang Anji Gengshengtang Eco Agriculture Co. Ltd, *China*

#### CONTACT DETAILS

Ms. Xia Yin  
+86-571-6374-6806  
scpzafu@zafu.edu.cn  
252 Yigin Street,  
Lin'an, Zhejiang  
China

### THE OBJECTIVES

The project aims at increasing bamboo shoot markets with economic benefits for 300 bamboo SMEs through a more resource-efficient and a less polluting food processing industry; building a green standardised production value-added chain for safe foods in the bamboo industries of Zhejiang and Sichuan Provinces; and replicating successful experiences to 600 other SMEs where the use of polluting preservatives is prevalent.



### THE WAY FORWARD

- Conducting market survey on the quality of preserved bamboo shoots and other preserved food products;
- Conducting laboratory tests and analysis of food samples from the market;
- Enabling consumers to identify eco-friendly produced bamboo shoot products through workshop and awareness raising events;
- Building the capacity of 300 SMEs to apply green and clean technologies; Demonstrating eco-friendly bamboo and vegetable farming practices to farmers by applying organic farming and offering certification; Developing standards for processing green and safe bamboo shoot products.



**Duration** 3/2013 – 2/2017  
**Total budget** EUR 1,981,000 (EU Contribution: 79.80%)



#### ZHEJIANG A AND F UNIVERSITY (ZAFU)

ZAFU is the lead applicant of the project. It coordinates all project activities and becomes the main technology provider.

Ms. Xia Yin  
xiadonnayin@gmail.com or  
scpzafu@zafu.edu.cn



#### INTERNATIONAL FEDERATION OF ORGANIC AGRICULTURE MOVEMENTS (IFOAM)

As one of project partners, IFOAM provides the service on environmentally friendly farming technologies, certification, policy, and global transfer of results.

Ms. Flavia Castro  
f.castro@ifoam.org



#### INTERNATIONAL NETWORK FOR BAMBOO AND RATTAN (INBAR)

INBAR is a project partner in the project. It provides service for inclusive green development of the bamboo value-added chain and for global transfer of results.

Dr. Lou Yiping  
yplou@inbar.int

#### ZHEJIANG PROVINCIAL ASSOCIATION FOR SMALL AND MEDIUM ENTERPRISE (ZJSME)

ZJSME is one of project partners. It contributes to project as the implementing partner on policy formulation and governance.

Mr. Cai Zhangsheng  
caizsg99@sina.com

#### ASSOCIATION FOR THE BAMBOO INDUSTRY OF YIBIN, SICHUAN (SCBAMBOO)

SCBAMBOO is one of project partners. It contributes to the project as an implementing partner on technology extension.

Mr. Qin Hongjie  
653568070@qq.com

#### SICHUAN PROVINCIAL ASSOCIATION FOR SMALL AND MEDIUM ENTERPRISES (SCSME)

SCSME is one of project partners. It contributes to project as the implementing partner on policy formulation and governance.

Mr. Wang Wenyi  
scsmea@163.com



#### ASSOCIATION FOR THE BAMBOO INDUSTRY OF ANJI, ZHEJIANG (ZJBAMBOO)

ZJBAMBOO is one of project partners. It contributes to the project as an implementing partner on technology extension.

Ms. Wang Qin  
anjifsc@163.com



PREMIUM ENVIRONMENTAL MANAGEMENT FOR COMPANIES  
IN CHINA

## THE CHALLENGE

Products 'made in China' are common today – with a daily increasing share of traded goods. However, there are justified concerns about the sustainability of production in China and its negative environmental and social impacts. These concerns affect also the credibility of products 'made in China'. The project is specifically addressing Cleaner Production, using the EU Eco-Management and Audit Scheme (EMAS) to bundle forces along the global supply-chain in a systemic approach to stimulate sustainable consumption and production.

## LEAD PARTNER

The Administrative Centre for  
China's Agenda 21 (ACCA21), China

## PARTNERS

- Centric Austria International (CAI), Austria
- adelphi research, Germany
- China Quality Mark Certification Group Co., Ltd (CQM), China
- China Environmental United Certification Center Co., Ltd (CEC), China

## ASSOCIATES

- Ministry of Science and Technology of the People's Republic of China (MoST), China
- Ministry of Environmental Protection (MEP), China
- Ministry of Industry and Information Technology (MIIT), China

## CONTACT DETAILS

Mr. Peng Sizhen  
+86-10-58884803  
pengsz@acca21.org.cn  
No.8 Yuyuantan South Road,  
100038 Beijing  
China



## THE OBJECTIVES

The project aims to promote sustainable consumption and production patterns through the use of the voluntary, market-based EU Eco-Management and Audit Scheme (EMAS).

## THE WAY FORWARD

- Providing capacity building ('Train the trainers') to 500 Chinese consultants so that they are able to coach SMEs for the implementation of EMAS;
- Training up to 20 Chinese environmental verifiers;
- Developing an enabling policy environment by harmonising the certification, verification and registration procedures of industrial sites located in China;
- Making concrete business intervention by preparing SMEs for EMAS registration;
- Broad awareness raising and promotion to encourage the uptake of EMAS in China through promotion activities (conferences, newsletter, media);
- Launching a website (help-desk) to facilitate the implementation of EMAS Global in China.



**Duration** 3/2012 – 2/2016  
**Total budget** EUR 1,234,298.50 (EU Contribution: 80%)

THE ADMINISTRATIVE  
CENTRE FOR CHINA'S  
AGENDA 21 (ACCA21)

ACCA21 facilitates the networking and dialogue with Chinese governmental actors.

Ms. Qin Yuan  
qy1978@acca21.org.cn

CENTRIC AUSTRIA  
INTERNATIONAL (CAI)

CAI contributes to the policy components of the project, and provides capacity building for the Chinese experts.

Mr. Gerhard Weihs  
weihs@centric.at

ADELPHI  
RESEARCH

adelphi provides input on EMAS and on latest developments on EMAS Global. It facilitates the link to EU policy makers.

Mr. Rainer Agster  
agster@adelphi.de

CHINA QUALITY MARK  
CERTIFICATION GROUP CO.,  
LTD (CQM)

CQM brings companies to the project, in assigning experts from its staff to become EMAS consultants and verifiers.

Mr. Yan Yinghui  
yyh@cqm.com.cn

CHINA ENVIRONMENTAL  
UNITED CERTIFICATION  
CENTER CO., LTD  
(CEC)

CEC brings companies to the project, in assigning experts from its staff to become EMAS consultants and verifiers. It links to the Ministry of Environment Protection.

Mr. Li Zaiqing  
qalczq@sina.com





## EuropeAid

### SCALING UP ENERGY EFFICIENCY AND CLEANER PRODUCTION IN SMALL AND MEDIUM-SIZED ENTERPRISES THROUGH INTEGRATED SOLUTIONS AND GREEN CREDIT

#### THE CHALLENGE

Lack of access to finance is the greatest barrier to implementing high-cost cleaner production (CP) and energy efficiency (EE) projects by SMEs. There is a gap between SMEs and financial institutions (FIs). Many times SMEs lack the capacity to make a compelling business case to FIs. On the other hand, FIs still lack the knowledge to gauge the EE/CP related risks and opportunities. To address this problem, competent environment and energy service providers with integrated technical and financial solutions are indispensable.

#### LEAD PARTNER

TUV Rheinland Berlin Brandenburg  
Pfalz e.V., *Germany*

#### PARTNERS

- ESCO Association of China Energy Conservation Association, *China*
- The Climate Change Organization, *UK*
- Administrative Committee of Xi'an Hi-tech Industries Development Zone, *China*
- Shaanxi Engineering Consulting Center, *China*
- Xi'an Municipal Research Institute of Environmental Protection, *China*

#### ASSOCIATES

- Shaanxi Provincial Development and Reform Commission, *China*
- Shaanxi Provincial Environmental Protection Bureau, *China*
- European Union Chamber of Commerce in China
- Schneider Electric China
- DEG-German Investment and Development Company, *Germany*
- China Minsheng Banking Corp.
- China Construction Bank
- Xi'an Municipal Energy Conservation Supervision and Monitoring Center, *China*
- Xi'an Innovation Technical Venture & Guarantee Capital, *China*
- The Credit Service Center Xi'an Hi-tech Industries Development Zone, *China*

#### CONTACT DETAILS

Ms. Sherin Lin  
+86-20-2839-1226, sherin.lin@tuv.com  
No. 199 Kezhu Road Guangzhou Science City, 510663, *China*

#### THE OBJECTIVES

The project aims to 1) enhance the capacity of Shaanxi SMEs to access green credit and to implement EE/CP; 2) develop risk-sharing mechanisms between government and financial institutions; and 3) strengthen local energy service providing EE/CP solutions.



#### THE WAY FORWARD

- Providing trainings for 500 SMEs on EE/CP assessment and for 20 FIs on green credit and risk management;
- Conducting technical/financial assessments for 150 SMEs to prepare 50 bankable projects with access to green credit;
- Preparing a guidebook on green credit and risk management with 10 case studies;
- Designing 3 innovative risk-sharing schemes for financing EE/CP improvements;
- Providing "train the trainers" workshops for 100 local energy service professionals twinned with European/national specialists;
- Preparing policy recommendations for scaling up EE/CP improvements and green credit in SMEs;
- Reducing a total of 396,000 ton CO<sub>2</sub>-eq emission and saving 180,000 tce by the 500 SMEs.



**Duration** 2/2014 – 1/2018

**Total budget** EUR 1,716,841 (EU contribution: 58%)



#### TUV RHEINLAND BERLIN BRANDENBURG PFALZ E.V. (TUV RBBP)

TUV RBBP is the lead partner and responsible for the overall project management and implementation.  
Ms. Sherin Lin  
sherin.lin@tuv.com



#### ESCO ASSOCIATION OF CHINA ENERGY CONSERVATION ASSOCIATION (EMCA)

EMCA is a project partner. It liaises with Chinese banks, develops green financing training methodology, provides training for SMEs, FIs and ESCOs.  
Mr. Zhao Ming  
zm@emca.cn



#### THE CLIMATE CHANGE ORGANIZATION (TCCO)

As a project partner, TCCO provides expertise in green credit, conducts comparative study on European and Chinese practice of green credit, and establishes a multi-stakeholder task force on developing new business models.  
Ms. Changhua Wu  
cwu@theclimategroup.org



#### ADMINISTRATIVE COMMITTEE OF XI'AN HI-TECH INDUSTRIES DEVELOPMENT ZONE (ACXHTZ)

ACXHTZ is a project partner. It plays role in providing access to the enterprises operating within the zone and in Shaanxi Province by network collaboration. ACXHTZ is responsible in developing policy recommendations.  
Mr. Lizhe Zhang  
zhanglz@xdz.gov.cn



#### XI'AN MUNICIPAL RESEARCH INSTITUTE OF ENVIRONMENTAL PROTECTION (XMRIEP)

XMRIEP is a project partner and responsible in knowledge sharing and policy recommendations. It provides local training and CP/EE technical solutions for SMEs and FIs.  
Ms. Xiaolan Meng  
xariep@foxmail.com



#### SHAANXI ENGINEERING CONSULTING CENTER (SECC)

As a project partner, SECC provides policy support; engages SMEs, FIs and ESCOs in Shaanxi Province; organises multi-stakeholder roundtable meetings; and develops policy recommendations.  
Mr. Fengchang Liu, 1801322340@qq.com





## CHINA HEAT PUMP WATER HEATER CHALLENGE PROGRAMME

### THE CHALLENGE

In China, the broad uptake of Heat Pump Water Heater (HPWH) faces many challenges. Firstly, the upfront cost of an HPWH is higher than that of an electric water heater, and similar or a little higher than a solar water heater. Secondly, consumer awareness in China is still very low. Consumers also have no means to compare between different types of water heaters. Thirdly, the level of HPWH technology used in China is significantly lower than in Europe, leading to lower reliability, lower efficiency, less-than-ideal refrigerants used, and limited range.

#### LEAD PARTNER

China Energy Conservation Association, *China*

#### PARTNERS

- International Copper Association Ltd., *China*
- China National Institute of Standardization (CNIS), *China*
- Shanghai Jiaotong University (SJU), *China*
- SP Sveriges Tekniska Forskningsinstitut AB, *Sweden*

#### ASSOCIATES

- National Development and Reform Commission (NDRC) Environment and Resource Department
- Standardization Administration of China (SAC) Industry Standards Department
- European Heat Pump Association (EHPA), *Belgium*
- Kunming: Yunnan Energy Conservation Technical Center
- Hefei: Anhui Energy Conservation and Supervision Center
- Wuhan: Hubei Energy Conservation Center and Supervision Center
- Changsha: Hunan Energy Conservation and Supervision Center;
- Nanchang: Jiangxi Energy Conservation and Supervision Center
- Nanning: Guangxi Energy Conservation and Technical Center
- Chongqing Energy Conservation and Technical Center;
- Chengdu, Sichuan Energy Conservation Center

#### CONTACT DETAILS

Mr. Song Zhongkui  
+86-10-64276393, songzhk@nim.ac.cn  
No.18, East Beisanhuan Road, Beijing, *China*



### THE OBJECTIVES

The project promotes residential HPWH in China to reduce greenhouse gas (GHG) emissions. It plans to increase the market share of household heat pump water heaters to 6.5% in Southern China.

### THE WAY FORWARD

- Strengthening the China Heat Pump Alliance to facilitate EU-Asia exchanges of experience, and enhancing potential for credibility, visibility, and acceptance of the outputs of the action;
- Strengthening of the capacity of intermediaries;
- Strengthening consumer awareness;
- Upgrading HPWH manufacturing through enhanced ability and readiness to apply eco-design;
- Establishing a new single standard and a labelling scheme supporting HPWH greater deployment;
- Creating a supportive policy framework allowing HPWH to benefit from subsidies available to renewable energy technologies.



**Duration** 2/2013 – 1/2017  
**Total budget** EUR 2,069,861 (EU Contribution: 80%)



#### CHINA ENERGY CONSERVATION ASSOCIATION (CECA)

CECA is the lead applicant of the project. It is responsible for the overall management and project implementations.

Mr. Song Zhongkui  
songzhk@nim.ac.cn



#### SHANGHAI JIAOTONG UNIVERSITY (SJU)

SJU is a project partner. It contributes in the trainings on heat pump water heater (HPWH) and provides trainers for other technical trainings.

Mr. Chen Jiangping  
jpchen@sjtu.edu.cn



#### INTERNATIONAL COPPER ASSOCIATION LTD., CHINA (ICA)

ICA is one of the partners. It plays a role in organising events, training, policy dialogue and engages in dissemination activities.

Mr. Pierre Cazelles  
pierre.cazelles@copperalliance.asia



#### CHINA NATIONAL INSTITUTE OF STANDARDIZATION (CNIS)

As a project partner, CNIS leads the policy, standard and labelling activities. It provides ad hoc support to the other partners.

Mr. Cheng Jianhong  
chengjh@cnis.gov.cn



#### SP SVERIGES TEKNISKA FORSKNINGINSTITUT AB (SSTF)

As one of the partners, SSTF plays a role in developing link with European Heat Pump Alliance. It supports the transfer of experience from Europe.

Mr. Roger Nordman  
Roger.nordman@sp.se



## LOW ENERGY HOUSING IN SICHUAN AND SHENZHEN, CHINA – ENABLE AND ENFORCE ENERGY EFFICIENT BUILDING CONSTRUCTION

## THE CHALLENGE

The building sector in China increased its primary energy consumption and resource intensity significantly. This development has not gone unnoticed and translates into the serious risk of China locking itself in with a large energy inefficient housing stock.

## LEAD PARTNER

Wuppertal Institute for Climate,  
Environment and Energy, *Germany*

## PARTNERS

- Beijing University of Civil Engineering and Architecture, *China*
- Chongqing University, *China*
- Sichuan Construction Technology Development Centre, *China*
- Shenzhen Energy Efficiency Testing & Evaluation Centre (SEETEC), *China*

## ASSOCIATES

- Ministry of Housing and Urban & Rural Development, *China*
- National Office for Energy-Saving Building Development, *China*
- Sichuan Provincial Construction Bureau
- Shenzhen Municipal Construction Bureau
- China Construction Bank Sichuan and Shenzhen Branch
- Consumer Associations in Sichuan and Shenzhen

## CONTACT DETAILS

Mr. Malte Beckmann  
+49-202-2492-266  
malte.beckmann@wupperinst.org  
Döppersberg 19,  
42103 Wuppertal  
*Germany*

[www.buildee.net](http://www.buildee.net)

## THE OBJECTIVES

The project aims to increase the sustainable use of resources in the building sector, especially energy efficiency and recycling of building material, while improving the quality of life in the target area and contributing to the mitigation of climate change. The project also aims at up-scaling pilot studies building on public-private partnership between construction bureaus and developers in addition to pushing financial incentives for sustainable building projects. These activities will be accompanied and made transparent by a powerful online system.



## THE WAY FORWARD

- Creation of network to include local construction bureaus, real estate developers, SMEs suppliers, financial institutions, consumer associations and residents;
- Developing support material for real estate developers as well as for SMEs and consumer associations;
- Implementing identified projects by the local developers and public investors/local financial institutions in the target regions;
- Development of an advanced web-site built on the shoulders of the upcoming big EE web-platform on energy efficiency in buildings.



**Duration** 2/2012 – 1/2015

**Total budget** EUR 1,488,255 (EU Contribution: 80 %)

WUPPERTAL INSTITUTE  
FOR CLIMATE, ENVIRONMENT  
AND ENERGY

As lead applicant it is responsible for the project preparation and management.

Mr. Malte Beckmann  
malte.beckmann@wupperinst.org

CHONGQING UNIVERSITY  
(CQU)

CQU provides technical supports for this project, especially supporting the implementation of energy-efficiency building development and trainings for local auditors/inspectors and target SMEs in Sichuan.

Mr. He, Qiang  
hq0980@126.com

SICHUAN CONSTRUCTION  
TECHNOLOGY DEVELOPMENT  
CENTRE (SCTDC)

SCTDC implements the energy efficiency building development in this project in Sichuan and provides trainings for local building energy inspectors/auditors and the target SMEs.

Mr. You, Jiong  
youjiong98@yahoo.com.cn

BEIJING UNIVERSITY OF  
CIVIL ENGINEERING AND  
ARCHITECTURE (BUCEA)

BUCEA acts as an overall coordinator for the Chinese partners.

Mr. Mingshun Zhang  
Zhangmingshun02@hotmail.com

SHENZHEN ENERGY EFFICIENCY TESTING & EVALUATION CENTRE  
(SEETEC)

SEETEC scales-up outputs of this project to other Chinese cities by providing policy recommendations.

Mr. Liu, Junyue  
shenm@ibrcn.com



SUSTAINABLE PRODUCTION IN THE PRINTING AND  
DYEING SECTOR IN CHINA

## THE CHALLENGE

China is the largest textile producing and consuming nation in the world. The development of the textile industry is vital to China's economic development. Printing and dyeing (P&D) is a key process and an important sector in the textile industry. From total national production, over 50 % was produced in Zhejiang province and about 33 % in Shaoxing County. However, P&D is by far the most polluting stage of production in the textile industry, due to high water and energy consumption, and high water pollution. Given 98 % of firms in P&D industry in China are SMEs, a lack of enterprise level awareness, knowledge, and professional expertise can be a major challenge.

## LEAD PARTNER

Zhejiang Province Economic and Information Commission (ZPEIC), China

## PARTNERS

- Shaoxing County Government, China
- Zhejiang University, China
- Asociación Textil de Galicia (Textile Association of Galicia – ATEXGA), Spain
- Zhejiang Association of Printing and Dyeing Industry, China

## ASSOCIATES

- Industria De Diseño Textil S.A. (Inditex, S.A.), Spain
- Collaborating Centre on Sustainable Consumption and Production (CSCP) gGmbH, Germany
- UNIDO, Austria
- Norwegian Institute for Water Research (NIVA), Norway
- International Network for Bamboo and Rattan (INBAR), China
- Bank of Communications (Zhejiang Branch), China
- Semir Group Co., Ltd., China
- Confecciones MRF SA, Spain
- Mafecco SA, Spain

## CONTACT DETAILS

Mr. Zheng Yifang  
+86-571-8705-6941  
zyf@zjxw.gov.cn  
Building 8, Administration Center, 479  
Tiyuchang Road, Zhejiang  
China

## THE OBJECTIVES

The project aims at reducing environmental impacts from the textile printing and dyeing industry in China, through promoting sustainable production among 350 SMEs in Zhejiang Province with Shaoxing County as demonstration area, supporting the creation of an enabling policy environment, and promoting the replication of project experience.

## THE WAY FORWARD

- Establishing Model Companies to show what the project can do for the companies in the P&D sector in China;
- Providing SME owners in P&D sector with CSR leadership training;
- Offering environmental management trainings to top management and/or chief engineers of SMEs;
- Encouraging SMEs to submit action plans to be followed up by experts;
- Compiling case studies and giving recognition for successful SMEs;
- Coordinating with other local governments in Zhejiang;
- Undertaking stakeholder consultation with fashion groups (brands companies), ESCOs and banks.



**Duration** 2/2013 – 1/2017

**Total budget** EUR 1,499,000 (EU Contribution: 79.97%)

ZHEJIANG PROVINCE ECONOMIC AND INFORMATION  
COMMISSION (ZPEIC)

ZPEIC is the lead applicant and is a key department of the provincial government. It is responsible in coordinating printing and dyeing (P&D) companies in Zhejiang and supports provincial policy development.

Mr. Yifang Zheng  
zyf@zjxw.gov.cn



## ZHEJIANG UNIVERSITY (ZJU)

As a project partner, ZJU provides a large pool of technical human resources, skilled on cleaner production, pollution control, energy and water saving. Its Industrial Development Research Center (IDRC) will conduct policy studies.

Ms. Yeo Lin  
proflinyeo@gmail.com or  
linyao@zju.edu.cn

SHAO XING COUNTY  
GOVERNMENT  
(SCG)

SCG is a project partner. It coordinates all printing and dyeing companies in Shaoxing to participate in the project, develops policy instruments and actively involves its enforcement agencies.

Mr. Ru-Sheng Zhou  
jerryoo66@hotmail.com

## atexga

TEXTILE ASSOCIATION OF  
GALICIA (ATEXGA)

ATEXGA is one of project partners. It is an industry association in the regional textile cluster of Galicia, where the world-famous fashion group Inditex – owner of “Zara” is based. It brings into the project links with fashion groups, regulatory experience from Europe, expertise, and dissemination channels in Europe.

Mrs. Eva Mª Ben Garea  
atg@atexga.com

ZHEJIANG ASSOCIATION  
OF PRINTING AND  
DYEING INDUSTRY  
(ZAPDI)

ZAPDI is one of project partners. It has about 300 direct members and close connection with the target SMEs, and has extensive experience in promoting cleaner production. It engages its member companies and provide expertise.

Mr. Zhi-Fang Ma  
Mzf1984@vip.163.com



IMPROVING RESOURCE EFFICIENCY FOR THE PRODUCTION AND RECYCLING OF  
ELECTRONIC PRODUCTS BY ADOPTION OF WASTE TRACKING SYSTEM

## THE CHALLENGE

In the dynamic Chinese economy, the production of electrical and electronic equipment is increasing. These growing amounts of products cause severe environmental damages when not handled properly in the end-of-lifecycle. At the same time e-waste contains many materials that are valuable when used as secondary raw materials. Up to now, there is no comprehensive e-waste tracking system in place in China.

## LEAD PARTNER

University of Natural Resources  
and Life Sciences Vienna, Austria

## PARTNERS

- Beijing University of Civil Engineering and Architecture, China
- National Solid Waste Management Centre of China of the Ministry of Environmental Protection of China
- NL Agency, Netherlands
- China Electronics Enterprises Association, China
- Jingzhou Environmental Protection Bureau, China

## ASSOCIATES

- Ministry of Environmental Protection (MEP)
- China Association of Environmental Protection Industry (CAEPI)
- China Society of Environmental Science (CSES)
- Solid Waste Management Centres in Zhejiang Province, Jiangsu Province, Guangdong Province, Hubei Province
- Provincial Electronic Industrial Association of Guangdong (GDEIA) and Jiangsu (JSEIA)

## CONTACT DETAILS

Mr. Stefan Salhofer  
+43-1-318-99-00  
stefan.salhofer@boku.ac.at  
Muthgasse 107,  
1190 Vienna  
Austria

[www.rewin-china.net](http://www.rewin-china.net)



## THE OBJECTIVES

The project aims to link supply and demand of secondary raw materials in electronic production and recycling (chain approach) by developing an adequate recycling infrastructure for Waste Electrical and Electronic Equipment (WEEE) as post-consumer waste and secondary raw materials from electronic producing industry.

## THE WAY FORWARD

- Launching of the Electronic Waste Tracking System (e-WTS) and establishment of a Secondary Material Exchange Platform (SMEP);
- Implementation of a train-the-trainer course for supporting stakeholders in using the e-WTS and SMEP (September 2012);
- First advisory mission for participating SMEs in the recycling industry as well as provincial environmental authorities (September 2012).



**Duration** 12/2011 – 7/2015  
**Total budget** EUR 1,751,391 (EU Contribution: 80%)

UNIVERSITY OF NATURAL  
RESOURCES AND LIFE SCIENCES,  
VIENNA (BOKU)

As lead applicant BOKU is responsible for the overall management of the project and contributes to training and best practice in WEEE-collection and recycling standards.

Mr. Stefan Salhofer  
stefan.salhofer@boku.ac.at

BEIJING UNIVERSITY OF  
CIVIL ENGINEERING AND  
ARCHITECTURE (BUCEA)

BUCEA supports the local associate partners for hosting the training courses, establishes a help desk for e-WTS registration, and sets up a website.

Mr. Zhang Mingshun  
zhangmingshun02@hotmail.com

NATIONAL SOLID  
WASTE MANAGEMENT  
CENTRE OF CHINA  
OF THE MINISTRY OF  
ENVIRONMENTAL  
PROTECTION OF CHINA  
(NSWMC)

NSWMC coordinates the Chinese partners and establishes the e-WTS central office. NSWMC is responsible for adaptation of technical standards and is involved in the policy dialogue as legislative body.

Mr. Hu Hualong  
huhual@yahoo.com.cn

Mr. Lou Qingming  
nuochampion@126.com



## NL AGENCY

NL Agency gives both input on the system structure and design as well as the development of the online e-WTS and Design For Recycling.

Ms. Esther Veenendaal, [esther.veenendaal@agentschapnl.nl](mailto:esther.veenendaal@agentschapnl.nl)

CHINA ELECTRONICS ENTER-  
PRISES ASSOCIATION (CEEAA)

The association is the contact point to target SMEs and facilitates SMEs in participating in the project's workshops.

Ms. Wu Yinghong  
wyh@ceea.org.cn

JINGZHOU ENVIRONMENTAL  
PROTECTION BUREAU (JZEPB)

JZEPB supports local producers and recyclers in adopting e-Waste Tracking System and in networking.

Mr. Deng Chuzhou  
jhky9947@163.com





IMPLEMENTING SUSTAINABLE CONSUMPTION  
IN CIVIL SOCIETY OF URBAN CHINA

## THE CHALLENGE

Although great progress has been achieved in raising awareness of sustainable consumption (SC) and green supply chains, the existing SC practices are very much at the demonstration level: The current situation in China shows that willingness to buy green products is relatively high. But in practice, expenditures on buying green products are much lower. The main barriers for citizen's to buy green are availability, accessibility, and the price and information displayed on green products and services.

## LEAD PARTNER

Beijing University of Civil Engineering and Architecture, China

## PARTNERS

- Institute for Public Policy Research, UK
- City2020 Foundation, Netherlands
- Nankai University, China
- Beijing Consumer Association, China
- Tianjin Consumer Association, China

## ASSOCIATES

- Beijing Industrial and Commercial Bureau
- Tianjin Industrial and Commercial Bureau
- Beijing Environmental Protection Bureau
- Tianjin Environmental Protection Bureau
- Ministry of Environmental Protection, China

## CONTACT DETAILS

Mr. Zhang Mingshun  
+86-10-68322407  
Zhangmingshun02@hotmail.com  
No.1, Zhanlanguan Road, 100044,  
Beijing  
China

[www.sccs-urb.com](http://www.sccs-urb.com)

## THE OBJECTIVES

The project seeks to promote resource-efficiency and environmentally friendly economic development in China through mainstreaming individual sustainable consumption, and, at the same time, to improve the quality of living in the target area.

## THE WAY FORWARD

- Establishing business networks as the project's key approach for involving SMEs suppliers/producers, consumers/consumer associations and the intermediate retailers;
- Conducting stakeholders training workshops, annual network events, advise and supervision visits to retailers/supermarkets;
- Media activities to advertise the economic, social and environmental benefits of sustainable consumption to consumers becomes essential to stimulate demand;
- Involvement of 1,000-1,500 SMEs suppliers and facilitating target supermarkets/retailers to sign voluntary agreements with SMEs suppliers.



Duration 12/2011 – 11/2014

Total budget EUR 997,396 (EU Contribution: 80%)

BEIJING UNIVERSITY OF CIVIL  
ENGINEERING AND  
ARCHITECTURE (BUCEA)

As the lead applicant, BUCEA is responsible for project management and coordination of all the activities.

Mr. Zhang Mingshun  
Zhangmingshun02@hotmail.com

INSTITUTE FOR PUBLIC POLICY  
RESEARCH (IPPR)

IPPR provides input by developing and delivering the paper on EU learnings on sustainable consumption.

Mr. Reg Platt  
r.platt@ippr.org



## CITY2020 FOUNDATION

The foundation provides support to the action coordination via its regional office in Beijing.

Mr. H. Fleer  
hfler@city2020.eu



## NANKAI UNIVERSITY

As local service provider in Tianjin, NkU provides technical support in implementation.

Mr. Ju Meiting  
jumeit@nankai.edu.cn



## BEIJING CONSUMER ASSOCIATION

The association leads activities of business networking and playing crucial role in communicating among stakeholders.

Ms. Cui Qian  
bjxiaoxie@sina.com

TIANJIN CONSUMER  
ASSOCIATION (TJCA)

TJCA helps in the dialogues between SMEs suppliers/retailers and consumers and between local SC authorities and consumers.

Ms. Chen Yunkuai  
tjxx315@126.com



## IMPROVING ENERGY-EFFICIENCY AND ENVIRONMENTAL PERFORMANCE OF CHINESE SMES AND LARGE COMPANIES FACILITATED BY VOLUNTARY PUBLIC-PRIVATE PARTNERSHIPS

### THE CHALLENGE

In China, many SMES operate inefficiently. Data shows that average water and energy consumption per GDP in SMEs is much higher than in energy intensive large companies. SMEs have a large potential to improve their environmental performance. However, this room for improvement is not effectively addressed by conventional Chinese regulation. Voluntary PPPs will have a bridge and support function to accelerate the process of achieving ambitious environmental and energy saving results, as existing regulation standards can be met relatively easily by most SME companies.

### LEAD PARTNER

Agentschap NL, *Netherlands*

### PARTNERS

- Beijing University of Civil Engineering and Architecture (BUCEA), *China*
- Energy Research Institute (ERI) of National Development and Reform Commission (NDRC) of China
- Nanjing Commerce and Trade Bureau (NJCTB), *Nanjing, China*
- Nanjing Laundry and Dyeing Industrial Association (NJLDIA), *China*
- Nanjing Environmental Protection Bureau (NJEPB), *China*
- Jingzhou Environmental Protection Bureau (JZEPB), *China*
- Jingzhou Textile Association (JZTA), *China*
- CINET (International Committee on Textile Care), *Netherlands*

### ASSOCIATES

- Ministry of Environmental Protection of P.R. China (MEP)
- National Reform and Development Commission of P.R. China (NDRC)
- Dutch Ministry of Infrastructure and the Environment (MIE), *Netherlands*
- ING Bank N.V., *Netherlands*
- Industrial and Commercial Bank of China (ICBC) Hubei and Jiangsu Branch, *China*
- Nanjing Research Institute for Environmental Protection (NJRIEP), *China*
- Jingzhou Environmental Science & Technology Association (JZESTA), *China*

### CONTACT DETAILS

Mr. Erik ter Avest  
+31-88-6022475  
Erik.terAvest@agentschapnl.nl  
P.O. Box 8242, 3503 RE Utrecht, *Netherlands*

[www.vagchina.com](http://www.vagchina.com)



### THE OBJECTIVES

The project aims to scale up SCP practices by facilitating voluntary public private partnerships throughout China and thereby contributing significantly to the mitigation of climate change.

### THE WAY FORWARD

- Developing and implementing manual on how to implement and facilitate voluntary PPPs for SMEs and how to improve resource- and energy-efficiency in production patterns;
- Capacity building ("training the trainers") for SMEs to reach 700 target SMEs in Nanjing and Jingzhou;
- Facilitating the signing of voluntary PPP agreements between SMEs and government;
- Providing PPP-related financial incentives by means of local banks and government, as well as developing new financial instruments;
- Providing China's policy makers with findings on added-value of voluntary PPPs.



**Duration** 1/2012 – 12/2015

**Total budget** EUR 1,942,233 (EU Contribution: 80%)



### AGENTSCHAP NL

As lead applicant Agentschap NL is responsible for overall coordination and management. The agency acts as facilitator, trainer, expert on the implementation of public-private partnerships.

Mr. Erik ter Avest  
Erik.terAvest@agentschapnl.nl



### BEIJING UNIVERSITY OF CIVIL ENGINEERING AND ARCHITECTURE (BUCEA)

BUCEA plays a role in training, facilitating EE&ERPS, local workshops, and monitoring and benchmarking activities.

Mr. Zhang Mingshun  
Zhangmingshun02@hotmail.com



### ENERGY RESEARCH INSTITUTE (ERI)

ERI plays a role in training, monitoring and evaluation, knowledge transfer, PPP replication and policy recommendations.

Ms. Hu Xiulian  
huxl@eri.org.cn



### NANJING COMMERCE AND TRADE BUREAU (NJCTB)

NJCTB involves in leading local workshops, training SMEs, signing and implementing PPPs.

Mr. Huang Yanan  
kxhyn@163.com



### NANJING LAUNDRY AND DYEING INDUSTRIAL ASSOCIATION (NJLDIA)

NJLDIA plays role in EE&ERPS training and is responsible for communication and advice on PPP facilitation.

Mr. Xia Xiaoyun  
xxy123xxy123xxy123@yahoo.com.cn



### NANJING ENVIRONMENTAL PROTECTION BUREAU (NJEPB)

NJEPB plays role in local networking workshops, and training SMEs.

Mr. Liu Haibin  
haibin@gmail.com



### JINGZHOU ENVIRONMENTAL PROTECTION BUREAU (JZEPB)

JZEPB plays leading role in training, EE&ERPS, target setting, monitoring and benchmarking, providing PPP incentives and implementing PPPs including replication to other sectors in Jingzhou.

Mr. Deng Chuzhou  
Jhky9947@163.com



### JINGZHOU TEXTILE ASSOCIATION (JZTA)

JZTA plays role in signing and implementing PPPs and responsible for communication and advice on PPP facilitation.

Mr. Liqun Yang  
hbcnylq@126.com



### INTERNATIONAL COMMITTEE ON TEXTILE CARE (CINET)

CINET plays a role in networking and promoting innovations, providing Chinese SMEs best practices in environmental management.

Mr. Peter Wennekes  
p.wennekes@cinet-online.net

SUSTAINABLE PRODUCTION THROUGH MARKET PENETRATION OF  
CLOSED LOOP TECHNOLOGIES IN THE METAL FINISHING INDUSTRY

## THE CHALLENGE

Metal finishing operations in India are carried out by SMEs. Operations like degreasing, pickling, galvanic baths use acids and the wastewater is highly polluted. Due to lack of material stream and waste management systems, waste and pollution are major concerns. This also leads to reduced profits.

## LEAD PARTNER

The Energy and Resources Institute (TERI),  
India

## PARTNERS

- VDEh-Betriebsforschungsinstitut GmbH (BFI), Germany
- Austria Recycling Verein zur Förderung von Recycling und Umweltschutz in Österreich (AREC), Austria
- adelphi research, Germany
- STENUM Asia Sustainable Development Society, India
- Society of Indian Automobile Manufacturers (SIAM), India
- Asia Society for Social Improvement and Sustainable Transformation (ASSIST), Philippines

## CONTACT DETAILS

Dr. Malini Balakrishnan  
+91-11-2468-2111  
malinib@teri.res.in  
India Habitat Centre,  
Lodhi Road, New Delhi  
110003  
India

[www.acidloop.in](http://www.acidloop.in)

## THE OBJECTIVES

The project aims to introduce technology innovation for acid recovery as well as resource efficiency in the Indian metal finishing SMEs that would lead to improved environmental quality and combat pollution.



## THE WAY FORWARD

- Resource efficiency (RE) training workshops for SMEs in north, south and west India;
- On-site consulting support for implementation of low or no cost RE options;
- Acid recovery demonstration;
- Financial and other support to SMEs through policy dialogues, customer round tables, technology round tables;
- Dissemination activities throughout the project.



**Duration** 2/2012 – 1/2016

**Total budget** EUR 2,395,069.59 (EU Contribution: 80%)

THE ENERGY AND RESOURCES  
INSTITUTE (TERI)

TERI identifies local industrial needs and facilitates the participation of these industries in the training workshops, demonstration system installations and testing.

Dr. Malini Balakrishnan  
malinib@teri.res.in

VDE H-BETRIEBSFORSCHUNGSGES.  
INSTITUT GMBH (BFI)

BFI supports the design and implementation of the acid recovery demonstration systems.

Dr. Miriam Sartor  
Miriam.sartor@bfi.de

AUSTRIA RECYCLING VEREIN  
ZUR FÖRDERUNG VON  
RECYCLING UND UMWELTSCHUTZ  
IN ÖSTERREICH (AREC)

AREC provides training on sustainable production through materials stream management using the ECOPROFIT approach.  
Mr. Stefan Melnitzky  
arec@arecon.at

ADELPHI  
RESEARCH

adelphi research facilitates policy dialogue and ensures involvement of financial institutions.

Mr. Mikael Henzler  
henzler@adelphi.de

STENUM ASIA SUSTAINABLE  
DEVELOPMENT SOCIETY  
(STENUM ASIA)

STENUM Asia leads the local sustainable production training and implementation activities.

Mr. Rajat Batra  
rajat.batra@stenum-asia.org

SOCIETY OF INDIAN AUTO-  
MOBILE MANUFACTURERS  
(SIAM)

SIAM facilitates the participation of vendors of their auto manufacturing member companies.

Mr. Sushil Kumar  
sushilkumar@siam.in

ASIA SOCIETY  
FOR SOCIAL  
IMPROVEMENT AND  
SUSTAINABLE  
TRANSFORMATION  
(ASSIST)

ASSIST prepares the dissemination materials and supports the trainings.

Mr. Platosen Samarasam  
platosen@assistasia.org





## ACCESS TO FINANCE FOR SUSTAINABLE PRODUCTION AND CONSUMPTION OF AGRIBUSINESS MSMEs IN INDIA

### THE CHALLENGE

Having an important contribution to India's economy, micro, small and medium-sized enterprises (MSMEs) have the potential to catalyse an important shift towards green and fair production, hence supplying consumer markets with green and fair product options. The intent is strong among agribusiness MSMEs in India to adopt sustainable production practices. However, various constraints prevent them, namely technical ability, consistent market for green products and available working capital.

### LEAD PARTNER

Humanist Institute for Cooperation with Developing Countries (Hivos), Netherlands

### PARTNERS

- International Resources for Fairer Trade (IRFT), India
- Friends of Women's World Banking (FWWB), India

### ASSOCIATES

- Shop for Change Fair Trade, India
- Caspian Advisors Private Limited, India

### CONTACT DETAILS

Ms. Sabine Maresch  
+31-70-3765500  
smaresch@hivos.nl  
Raamweg 16, The Hague  
Netherlands



### THE WAY FORWARD

- Providing capacity building for 30 agribusiness MSMEs to enable adoption of sustainable post-harvest production practices;
- Creating access to working capital for 30 MSMEs agreeing to adopt sustainable production with the commercial banking sector;
- Facilitating market linkages for 30 MSMEs with at least 20 corporate buyers of certified products;
- Conducting consumer campaigns targeting 10,000,000 urban middle class Indian consumers of certified products from the 30 MSMEs.



**Duration** 4/2014 – 3/2018

**Total budget** EUR 1,258,496.00 (EU contribution: 79.45%)



### HUMANIST INSTITUTE FOR COOPERATION WITH DEVELOPING COUNTRIES (HIVOS)

Hivos is the lead partner and is responsible for the overall project management and implementation.

Ms. Sabine Maresch  
smaresch@hivos.nl  
odr@hivos.nl



### INTERNATIONAL RESOURCES FOR FAIRER TRADE (IRFT)

IRFT is a project partner. It plays role in consumer awareness campaign; organising Western and Southern India regional events; supporting producers to meet the Fair Trade standard; and participating in monitoring and evaluation.

Ms. Gaynor Pais  
gaynor@irft.org; admin@irft.org



### FRIENDS OF WOMEN'S WORLD BANKING (FWWB)

As a project partner, FWWB is responsible in the incubation finance to agri-MSMEs. It contributes to policy advocacy on green financing in the banking sector and participates in the monitoring and evaluation.

Ms. Vijayalakshmi Das  
viji.das@fwwbindia.org



## THE CHALLENGE

The textile sector is critical to the Indian economy – it contributes 14% to industrial production, 4% to GDP, and 17% to export earnings. However, this sector creates a high negative environmental impact such as degradation and depletion of natural resources; use of toxic chemicals/processes leading to pollution and health problems. There is also a lack of support, resources and incentives in the textile industry especially for the small and medium sized enterprises (SMEs) to implement eco-friendly solutions to address these issues.

## LEAD PARTNER

Traidcraft Exchange, UK

## PARTNER

All India Artisans and Craftworkers Welfare Association (AIACA), India

## CONTACT DETAILS

Mr. Ravi Kharka  
+91-11-26416492-94  
r.kharka@aiacaonline.org  
Ms. Neeti Malhotra  
neetim@traidcraft.org  
8-2-603/PK/6, Plot 6, Road 10,  
Hyderabad  
India

## THE OBJECTIVES

The project promotes economic competitiveness of the Indian textile industry and the well-being of textile artisans. The project aims to build sustainable businesses of textile artisans and improves their working conditions through efficient eco-friendly processes, access to resources and increased demand for 'green' products.



## THE WAY FORWARD

- Organising 250 SMEs and 12,500 artisans producing textile products into at least 150 artisan-based collectives (30% women members) and 6 federations (one per district);
- Providing trainings for SMEs and advocating policy changes to encourage the uptake of eco-friendly practices in textile clusters;
- Creating collectives to empower artisans and SMEs;
- Identifying potential as well as existing schemes for finance and services to build efficient eco-friendly businesses;
- Creating consumer awareness and demand amongst buyers and consumers in India and abroad, building on the momentum already created by the previous SWITCH-ASIA project, SUSTEX;
- Promoting sustainable products certified under the 'Craftmark Green'.



Duration 1/2014–12/2017

Total budget EUR 1,197,779 (EU contribution: 80%)



## TRAIDCRAFT EXCHANGE

As lead partner, TX is responsible for overall management and project coordination.

Mr. Nirmal Beura  
nirmalb@traidcraft.org



## ALL INDIA ARTISANS AND CRAFTWORKERS WELFARE ASSOCIATION (AIACA)

AIACA will focus on managing the field level implementation in the proposed area.

Mr. Ravi Kharka  
r.kharka@aiacaonline.org  
Ms. Neeti Malhotra  
neetim@traidcraft.org



## THE CHALLENGE

The Food & Beverage (F&B) sector constitutes about 60 % of the retail sector, and the energy consumption by retailers accounts for 15% of their operational cost. The F&B sector also generates large amounts of waste. Around 40% of food production in India is estimated to be wasted due to improper handling, transportation and storage, where retailers can play a role in reducing the wastage. The sector also contributes towards environmental pollution (transportation of goods and the carbon footprint of the SME suppliers).

## LEAD PARTNER

Confederation of Indian Industry (CII),  
India

## PARTNERS

- Asia Society for Social Improvement and Sustainable Transformation (ASSIST), Philippines
- Collaborating Centre on Sustainable Consumption and Production (CSCP) gGmbH, Germany
- Retailers Association of India (RAI), India
- Austria Recycling (AREC), Austria
- STENUM Asia Sustainable Development Society (STENUM), India

## ASSOCIATES

- Consortium of Indian farmers Association (CIFA), India
- Association of Development Financing Institutions in Asia and the Pacific, Philippines

## CONTACT DETAILS

Mr. Shikhar Jain  
+91-11-4372-3316  
shikhar.jain@cii.in  
2nd Floor Thapar House  
124 Janpath, New Delhi-110 001  
India

## THE OBJECTIVES

The project aims at instilling sustainable thinking and adoption of sustainable approaches in a large retail chain's strategy, operation and marketing; driving sustainable practices in the supply chain of retailers; and educating consumers on sustainable consumption and creating a favorable climate for the adoption of sustainable practices across the retail value chain.



## THE WAY FORWARD

- Developing and implementing customised Sustainability Business Models for retailers;
- Enabling SME suppliers to adopt approaches, techniques, tools and technology to align SCP practices into the core of their business practices;
- Linking up Indian retailers with major European retailers by visits to Europe, to trade fairs/forum and business networking sessions;
- Developing and implementing Go-Green Strategy to sensitise and educate consumers on green products and choices towards creating a market demand for sustainable products;
- Promoting policy action to promote sustainability in the Indian retail sector through measures such as formulation of enabling instruments and policies for demand-side pull.



**Duration** 1/2013 – 8/2016

**Total budget** EUR 2,383,517 (EU Contribution 80 %)

CONFEDERATION OF INDIAN  
INDUSTRY (CII)

CII is the lead applicant of the project. It is responsible for the overall management and implementation activities.

Mr. Shikhar Jain  
shikhar.jain@cii.in



## AUSTRIA RECYCLING (AREC)

AREC is one of the project partners. It plays key role in technical trainings, training of trainers and in offering direct support to SMEs.

Mr. Thomas Dielacher  
dielacher@stenum.at



## STENUM ASIA

STENUM is a project partner. Its key role is in providing technical resources to assist SMEs in adopting sustainable practices.

Mr. Rajat Batra  
rajat.batra@stenum-asia.org

COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION  
AND PRODUCTION (CSCP)

As one of the partners, CSCP contributes in the international cooperation initiatives. It provides valuable inputs in design of retailers sustainability strategy and assists retailers in implementation of green strategy.

Ms. Christina Raab  
christina.raab@scp-centre.org

RETAILERS ASSOCIATION OF  
INDIA (RAI)

RAI is a project partner and its key role is in the facilitation of several forums, events and trainings among retailers. It contributes in policy level advocacy.

Mr. Gautam Jain  
gautam@rai.net.in

ASIA SOCIETY FOR  
SOCIAL IMPROVEMENT  
AND SUSTAINABLE  
TRANSFORMATION  
(ASSIST)

ASSIST is one of the project partners and contributes in coordinating activities in Chennai and Mumbai. It provides technical expertise to SMEs and plays key role in design & development of IEC material.

Mr. S. Muralidharan  
murali@assistasia.org





SCALING UP SUSTAINABLE DEVELOPMENT  
OF MSME CLUSTERS IN INDIA

## THE CHALLENGE

The Indian economy owes a major part of its growth to the 26 million Micro, Small and Medium Enterprises (MSMEs) that provide employment to 60 million people. 70 % of these MSMEs are estimated to be concentrated in around 1,086 urban industrial clusters. The foundry sector is one of the less sustainable, highly energy intensive, environmentally polluting and has a socially negative impact.

## LEAD PARTNER

Foundation for MSME Clusters,  
India

## PARTNERS

- Gesellschaft für Internationale Zusammenarbeit (GIZ), Germany
- Global Reporting Initiative (GRI), Netherlands
- Indian Institute of Corporate Affairs (IICA), India
- United Nations Industrial Development Organization (UNIDO), Austria

## ASSOCIATE

Small Industrial Development  
Bank of India (SIDBI), India

## CONTACT DETAILS

Dr. Tamal Sarkar  
+91-11-26602885/86  
tamal@msmefoundation.org  
USO House, USO Road,  
Off Shaheed Jeet Singh Marg,  
New Delhi – 110067  
India

## THE OBJECTIVES

The project enables the adoption of sustainable environment and social business practices across selected foundry MSME clusters. It aims to scale-up the capacity of business membership organisation, and seeks to introduce aggregate reporting. Furthermore, the project aims to establish financial linkages and supports a conducive policy environment.



## THE WAY FORWARD

- Fostering sustainable production through technical and non-technical measures;
- Building capacities of Business Membership Organisations (BMOs) for SCP;
- Introducing and facilitating Aggregate Sustainability Reporting among Cluster MSMEs;
- Enhancing access of MSMEs to credit through stronger linkages with Financial Institutions;
- Undertaking policy advocacy and dissemination.



Duration 5/2012 – 10/2015

Total budget EUR 2,070,491 (EU Contribution: 80%)



## FOUNDATION FOR MSME CLUSTERS (FMC)

As lead applicant, FMC will manage and co-ordinate all project activities including implementation of WP1, monitoring & evaluation at the cluster level.

Mr. Tamal Sarkar, tamal@msmefoundation.org



## GLOBAL REPORTING INITIATIVE (GRI)

GRI's role in this project is to introduce sustainability issues to MSMEs and Business Membership Organisations (BMOs), overall coordination, supervision and implementation of activities related to development of Aggregate Reporting including training, coaching, documenting and dissemination.

Mr. Enrique Torres, torres@globalreporting.org



## DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT (GIZ)

GIZ's role is overall planning, co-ordination and implementation of the concepts of capacity building of Business Membership Organisation (BMO) and also overall coordination of state and national level dialogues, management of project information centre hosted at [www.responsible-business.in](http://www.responsible-business.in).

Ms. Neha Kumar, Neha.kumar@giz.de

UNITED NATIONS INDUSTRIAL  
DEVELOPMENT  
ORGANIZATION (UNIDO)

UNIDO's role is to provide technical inputs on cluster development methodology and REAP software, provision of technical inputs to the learning document on aggregated sustainability reporting (AR) based on the UNIDO Monitoring and Evaluation (M&E) guidelines for MSME clusters and dissemination of results in more than 20 countries where it operates and promotes cluster development.

Ms. Natascha Weisert  
N.Weisert@unido.org

INDIAN INSTITUTE OF  
CORPORATE AFFAIRS (IICA)

IICA provides training inputs on National Voluntary Guide-lines on Business Responsibility with special reference to MSMEs and channelise project findings and policy recommendations on business responsibility.

Ms. Gayatri Subramaniam  
gayatrisubramaniam.iica@gmail.com



## PROMOTING ECO FRIENDLY INDONESIA RATTAN PRODUCTS

### THE CHALLENGE

Due to deforestation and over exploitation, natural rattan has become increasingly difficult to obtain resulting in collectors having to travel longer distances in search of rattan. This meant higher raw rattan prices and squeezed the income of rattan collectors which was already marginal. The situation is compounded by unsustainable collection methods that limit future availability and low capacity to process raw rattan when a government export ban takes effect. Limited knowledge and lack of access to technology for cultivation and processing if not addressed will threaten the sustainability of the sector.

### LEAD PARTNER

The Association for Advancement of Small Business (PUPUK), Indonesia

### PARTNERS

- Innovationszentrum Lichtenfels e.V. (IZL), Germany
- SNV Netherlands Development Organisation, Netherlands

### ASSOCIATES

- Ministry of Industry (MoI), Indonesia
- Ministry of Trade (MoT), Indonesia
- Ministry of Forestry (MoF), Indonesia
- Bank Indonesia – Departement of Credit, BPR and MSMEs
- Indonesia Rattan Furniture and Craft Association (AMKRI)
- Indonesia Chamber of Commerce and Industry (ICCI)
- Indonesian Consumers Organizations (YIKI)

### CONTACT DETAILS

Mr. Listoman Tanjung  
+62-22-7834483  
ltanjung@pupuk.or.id  
Jl. Permata Bumi Raya Kav. 6,  
Bandung 40293  
Indonesia

### THE OBJECTIVES

The project aims at promoting sustainable production, processing and utilisation of rattan products; increasing awareness, capacities and collaboration among stakeholders in the rattan value chain; and improving learning, application and replication of best practices in the rattan sector.

### THE WAY FORWARD

- Establishing or strengthening associations for farmers/collectors in the three targeted rattan producing areas and strengthening existing production associations;
- Conducting training in rattan cultivation through creation of three demonstration sites in rattan-producing areas;
- Strengthening linkages in rattan value chain and building mutually beneficial business partnerships;
- Providing capacity building on sustainable rattan production for workers and managers in production centers;
- Conducting targeted communications activities to educate consumers and stakeholders about the benefits of using eco-friendly rattan products.



Duration 1/2013 – 1/2017

Total budget EUR 2,190,237.80 (EU Contribution: 79.9%)



### THE ASSOCIATION FOR ADVANCEMENT OF SMALL BUSINESS (PUPUK)

As the lead applicant, PUPUK is responsible on overall project management. It provides capacity building services including institutional strengthening and training of farmers and producers.

Mr. Listoman Tanjung  
ltanjung@pupuk.or.id



### INNOVATIONSZENTRUM LICHTENFELS E.V. (IZL)

As a project partner, IZL provides technical assistance on the design of rattan products that meet market demand. It also provides support on the development of protocols on sustainable cultivation, harvesting, handling and processing of rattan.

Mr. Auwi Stuebbe  
stuebbe@i-z-l.de



### NETHERLANDS DEVELOPMENT ORGANISATION (SNV)

SNV is a project partner. It provides technical assistance to support establishing multi-stakeholder platforms and rattan value chain development, and helping to establish inclusive business models to strengthen long term business linkage between larger companies and small companies in rattan industry.

Mr. Phil Harman  
pharman@snvworld.org

SCALING SUSTAINABLE CONSUMPTION AND PRODUCTION  
IN THE SOYBEAN PROCESSING INDUSTRY IN INDONESIA

THE CHALLENGE

Indonesia's tofu and tempeh industry, with its vast number of micro, small, and medium enterprises (MSMEs), still uses environmentally damaging production practices.

The problems in the processed soy-based food industry are inefficiency, inadequate waste disposal, lack of hygiene, insufficient access to credit, and the low awareness of new technologies. Without business development services, support, or regulations, these enterprises suffer from avoidable inefficiencies that not only reduce profitability and productivity, but also lead to environmental damage.

THE OBJECTIVES

The project aims at reducing energy consumption and increase sustainable growth in urban food processing industries in Indonesia by promoting sustainable production and consumption of tofu and tempeh.

THE WAY FORWARD

- Engagement with cooperatives and associations;
- Establishing Business Development Support (BDS) for small tofu and tempeh factory owners and renters who lack basic business skills, including financial literacy, planning, and management;
- Assistance for entrepreneurs to calculate impacts of investing in energy-efficient technologies;
- Engaging producers who have successfully made the switch as peer communicators in the business community;
- Creating linkages with government programmes and financial institutions offering loans and building capacity for local business intermediaries;
- Awareness campaigns through media;
- Developing an independent certification scheme to identify sustainable products for consumers.

LEAD PARTNER

Mercy Corps Scotland, UK

PARTNER

The Association for Advancement of Small Business (PUPUK), Indonesia

ASSOCIATES

- The Indonesian Ministry of Environment (MoE), Indonesia
- The Indonesian Cooperatives of Tofu and Tempe Producers (PRIMKOPTI), Indonesia
- PT Sunprima Nusantara Pembiayaan (Prima Finance), Indonesia

CONTACT DETAILS

Mr. M. Ridha  
+62-21-78842686  
muridha@id.mercycorps.org  
Graha STK,  
Jl. Taman Margasatwa No. 3,  
Jakarta Selatan 12550  
Indonesia



MERCY CORPS SCOTLAND

Mercy Corps manages the project and coordinates with Indonesian Cooperative Associations of Tofu and Tempeh Producers (PRIMKOPTI).

Mr. M. Ridha  
muridha@id.mercycorps.org



PERKUMPULAN UNTUK  
PENINGKATAN USAHA KECIL  
(PUPUK)

PUPUK provides business development services for the food processing and other industries.

Mr. Bastian Annas Saputra  
bastian\_as@pupuk.or.id



Duration 2/2012 – 1/2015  
Total budget EUR 900,000 (EU Contribution: 80%)



**PROMOTING THE IMPLEMENTATION OF TIMBER LEGALITY ASSURANCE (FLEGT LICENSE) AS A KEY STEP TO SUSTAINABLE PRODUCTION AND CONSUMPTION IN INDONESIA'S WOOD PROCESSING INDUSTRY**

**THE CHALLENGE**

Indonesia is home to the world's third-largest tropical rainforest area, making up 10% of the world's forest cover. Yet Indonesia's forests are disappearing at an alarming rate – 1.4 million hectares of natural forests were cleared annually between the year of 2000 and 2010, some legally, some illegally, for both domestic use and for international export. Until now, incentives have been insufficient to encourage Small and Medium Enterprises (SMEs) in Indonesia to fully invest in the Sustainable Consumption and Production (SCP) of wood products.

**LEAD PARTNER**

Yayasan WWF Indonesia

**PARTNERS**

- The Indonesia Furniture Industry and Handicraft Association (ASMINDO), Indonesia
- WWF UK

**CONTACT DETAILS**

Mr. Anwar Purwoto  
+62-21-7829461  
apurwoto@wwf.or.id  
WWF Indonesia  
Gedung Graha Simatupang  
Jl. Letjen TB Simatupang Kav. 38  
Jakarta 12540  
Indonesia

**THE OBJECTIVES**

The project targets by 2015, at least 300 SMEs in Indonesia's wood processing sector (about 10% of the total) are delivering legally verified and sustainably certified products to national and international markets, supported by the procurement policies for national government departments and practices of national and international retailers.



**THE WAY FORWARD**

- Providing capacity building for SMEs;
- Undertaking TLAS and CoC verification of the core group of 30 SMEs to increase trade of certified wood products;
- Reaching out to and conducting capacity of 300 wood processing SMEs and later to 2,500 SMEs;
- Creating showcase of successful take-up of TLAS verification by SMEs;
- Preparing promotional materials to distribute to all SME members of ASMINDO;
- Conducting TV advertising campaign for general public and media awareness raising trips for journalists;
- Linking up with public procurer for purchasing of legal and responsibly sourced timber from SMEs.



**YAYASAN WWF INDONESIA**

WWF-Indonesia is the lead applicant and is responsible for the overall management. It coordinates technical and financial monitoring and evaluation.

Ms. Dita Ramadhani  
dramadhani@wwf.or.id



**WWF UNITED KINGDOM**

WWF-UK is one of project partners. In the project it plays a role by engaging with retailers in the European market, and supports capacity building activities.

Ms. Julia Young, jyoung@wwf.org.uk



**ASMINDO**

ASMINDO is one of project partners. It plays a role in disseminating best practice amongst target groups in a complimentary engagement process to promote a wider awareness of the issues and uptake of best practice in responsible purchasing of forest products, among their membership base.

Mr. Indrawan  
Indra\_o@yahoo.com or  
asmindo\_info@indofurniture.or.id or  
asmindo@indo.net.id



**Duration** 2/2013 – 2/2016

**Total budget** EUR 1,396,626 (EU Contribution: 78.15%)



## IMPROVED COOK STOVES PROGRAMME LAOS

### THE CHALLENGE

A report indicates that cooking fuel accounts for 70 % of Laos' overall energy. This high dependence on biomass resources degrades local environments; demands considerable time in fuel collection, is costly and creates indoor air pollution that causes the premature death of 2,600 people each year (according to the WHO). Further, the burning of coal and wood adds considerably to greenhouse gas emissions. Therefore, in 1997 several initiatives have begun to promote improved cook stoves known as the Tao Payat Stove or the "Savings" Stove.

### LEAD PARTNER

Oxfam Novib,  
Netherlands

### PARTNERS

- SNV-Netherlands Development Organisation, Netherlands
- Non-profit Association for Rural Mobilisation and Improvement (Normai), Laos

### CONTACT DETAILS

Mr. Antonino Faibene  
+856-21-264-224  
Antonino.Faibene@oxfamnovib.nl  
98/8 Sithong Rd, Vientiane Capital  
Lao PDR

### THE OBJECTIVES

The project aims at establishing sustainable production and consumption of cleaner and fuel-efficient Improved Cook Stoves (ICS) by the end of 2016, where 50 % of the market share of cook stoves will be dominated by ICS. It also focuses at consumers in five target provinces to have better awareness and access to purchase ICS, as an affordable and high quality alternative to traditional cook stoves.



### THE WAY FORWARD

- Providing comprehensive training program to build target producers' capacity to reach business maturity;
- Providing capacity building to a wide range of retailers on labeled ICS model with focus on the benefits (cost, time savings, environment) that will accrue to end consumers;
- Preparing consumer promotion campaign by the Lao Women's Union with dual focus on business promotion and social promotion;
- Optimising product design of ICS model and related production tools, prior to commencing large-scale production;
- Consolidating ICS production by ensuring proper testing of product for quality control and assurance, leading to certification of producers and labeling of the product for end-users/consumers;
- Jointly developing a formal policy on cleanliness and efficiency standards of cook stoves, to be applied at a national level.



**Duration** 2/2013 – 1/2017

**Total budget** EUR 2,057,791.90 (EU Contribution: 89.79 %)



### OXFAM NOVIB

Oxfam Novib is the lead partner of this project and responsible for overall management and implementation. It provides capacity strengthening and guidance to the partners.

Mr. Antonino Faibene  
Antonino.Faibene@oxfamnovib.nl



### SNV-NETHERLANDS DEVELOPMENT ORGANISATION

SNV is a partner and plays a role as technical advisor. It provides capacity development services to partners and target groups.

Mr. Bastiaan Teune  
bteune@snvworld.org



### ASSOCIATION FOR RURAL MOBILISATION AND IMPROVEMENT (NORMAI)

NORMAI is the main implementing partner in the project. As an NGO, Normai has in depth understanding of the production of stoves.

Mr. Amphone Souvannalath  
amphone.souvannalath@gmail.com



Lao PDR is a LDC, landlocked and surrounded by some of competitive and fast-growing countries. To develop its economy the Lao government policy promotes high external input production models. Green and organic products development has become a priority as well, but little incentives are in place as support. This situation represents a threat in many aspects such as small farmers not being able to compete on the local market, promotion of non-sustainable agriculture, dependency on chemical inputs (with raising costs over time), air and water pollution.

VZW Oxfam Solidariteit Solidarité ASBL,  
*Belgium*

- Phone Soung Agricultural Development Project (PSADP), *Lao PDR*
- Association de Soutien au Développement des Sociétés Paysannes (ASDSP), *Lao PDR*

## Oxfam Wereldwinkels vzw, Belgium

Ms. Esther Diaz  
+856-21-264-224 (ext. 125)  
esd@oxfamsol.be  
98/8 Sithong Road, Ban Nongduantai  
Sikhottabong district  
PO Box 4723  
Vientiane Capital  
*Lao PDR*

The project seeks to boost national, ASEAN and European consumption of Lao sustainable food products (organic rice, tea, etc.). Increased demand for Lao greener processed food products will increase their market share and have a positive impact throughout the value chain stakeholders in a sector with high poverty alleviation potential while using environmental resources efficiently.



- Structuring a Lao Organic Products Promotion Platform;
- Engaging in consumer awareness campaigns on sustainable food products;
- Supporting green certifications, quality control and supply chain management;
- Promoting eco-labels on local and international markets;
- Linking up SMEs involved in processing, distribution and marketing of green food products with local and international markets;
- Facilitating linkages between green value chain SMEs and financial institutions;
- Reviewing organic promotion policies and supporting political dialogue.



**Total budget** EUR 1,238,069.18 (EU contribution: 89.84 %)



OSB is the lead partner and responsible for the overall project implementation and outcomes. It provides capacity building for partners and target groups.

Ms. Esther Diaz  
esd@oxfamsol.be  
Ms. Joëlle Plumerel  
jpl@oxfamsol.be



ASDSP is a project partner. It will support local SMEs to improve food processing quality and SMEs' access to local and international markets, through its links and collaboration with Lao Farmers Products.

Mr. Sisaliao Savengsuksa,  
svenqpcy@gmail.com



PSADP is a governmental project partner and plays a role in coordinating with different government agencies in Vientiane Province. It provides support to local SMEs, including on marketing and market access, and contributes to advocacy work and consumer awareness campaigns on green food products.

Mr. Bounlouay Vongxay, phonsoung\_sa@hotmail.com or bounlouay@hotmail.com



## ENVIRONMENTAL DECLARATION SCHEME FOR CONSTRUCTION AND BUILDING MATERIALS

### THE CHALLENGE

Over the last two decades, Malaysia has undergone a rapid pace of infrastructure development that has continued to the present time. This growth is still evident in the region as demonstrated by the 4.1% expansion in the construction industry. However, the new trend is likely to impact this sector as buyers consider the information on greenhouse gas emission as important for their procurement decisions. The majority of multinationals state they would be prepared to source products from a different country if this reduced carbon emissions. This represents a real opportunity, and significant risk for Malaysian SMEs.

### THE OBJECTIVES

The project aims at developing guidelines, tools and the supporting mechanism for product footprinting and labelling that meet the needs of the local and international market, and creating the recognition and preference for sustainable products from SMEs in the Malaysian construction and building materials sector.



### THE WAY FORWARD

- Designing and coordination of the methodology and scheme framework for the certification and labelling scheme for Malaysian construction and building materials;
- Development of generic environmental declaration scheme as umbrella framework that will meet the needs of the Malaysian SME's domestic and export markets;
- Development of product category rules (PCRs) development as a reference document describing the standardised environmental performance criteria to enable quantitative, consistent and objective assessment of different products within a category or sector;
- Launching of the environmental declaration scheme and Product Carbon Footprinting (PCF) and labelling scheme.

### LEAD PARTNER

SIRIM Berhad, *Malaysia*

### PARTNERS

- The Carbon Trust (TCT), *UK*
- Federation of Malaysian Manufacturers (FMM), *Malaysia*
- Malaysia Green Building Confederation (MGBC), *Malaysia*
- Building Materials Distributors Association of Malaysia (BMDAM), *Malaysia*

### ASSOCIATE

SIRIM QAS International Sdn. Bhd., *Malaysia*

### CONTACT DETAILS

Dr. Chen Sau Soon  
+6-03-5544-6564  
sschen@sirim.my  
Environmental Technology  
Research Centre  
1, Persiaran Dato' Menteri  
40700 Shah Alam, Selangor  
*Malaysia*



**Duration** 12/2012 – 12/2015

**Total budget** EUR 2,043,229.41 (EU Contribution: 80%)



### SIRIM BERHAD

SIRIM Berhad is the lead partner and responsible for the overall project management and implementation. It is the government machinery for quality, research and technology development and transfer.

Dr. Chen Sau Soon  
sschen@sirim.my



### THE CARBON TRUST (TCT)

TCT is a project partner. It plays a role in project management of toolkit development, technical and methodological advice, knowledge transfer and using its extensive business networks within the construction industry in the UK and Europe.

Dr. Hugh Jones  
Hugh.Jones@CarbonTrust.co.uk



### FEDERATION OF MALAYSIAN MANUFACTURERS (FMM)

FMM is one of project partners serving as a direct linkage to the building materials manufacturers. It plays a role in project management of relevant sections and is the target group benefiting from project results.

Ms. Ng Lee Lee  
leelee@fmm.org.my



### MALAYSIA GREEN BUILDING CONFEDERATION (MGBC)

MGBC is one of project partners serving as a direct linkage to users and evaluators of sustainable building construction. It plays a role in project management of relevant sections and is the target group benefiting from project results.

Mr. Thirukumaran Jallendran  
Thirukumaran.Jallendran@leandlease.com or  
info@greenpagesmalaysia.com



### BUILDING MATERIALS DISTRIBUTORS ASSOCIATION OF MALAYSIA (BMDAM)

BMDAM is one of project partners serving as a direct linkage to the building materials distributors. It plays a role in project management of relevant sections and is the target group benefiting from project results.

Mr. Ang Show Hing  
shang@humeceboard.com.my or  
info@bmdam.org.my





## SUPPORTING A GREENER AND MORE ENERGY EFFICIENT CONSTRUCTION INDUSTRY IN MONGOLIA

### THE CHALLENGE

The construction industry in Mongolia has expanded rapidly in recent years, but little attention is being paid to the environmental impacts or to energy efficiency considerations. One of the main materials used by the construction industry in Mongolia is concrete. The substitution of the aggregates (natural materials) used in concrete with fly ash would improve the insulation capacity of concrete, thus reducing energy use and reducing the use of natural resources.

### LEAD PARTNER

Caritas Czech Republic

### PARTNERS

- Mongolian National Chamber of Commerce and Industry, Mongolia
- IVL Swedish Environmental Research Institute Ltd, Sweden
- Caritas Mongolia

### CONTACT DETAILS

Mr. Thibault Chapoy  
+976-95-97-55-09  
thibault.chapoy@caritas.cz  
Ms. Khongorzul Batbold  
+976-99-85-10-24  
khongorzul.batbold@caritas.cz  
Sukhbaatar district, 8 Khoroo,  
Academic Sodnom street,  
Ulaanbaatar  
Mongolia

### THE OBJECTIVES

The project seeks to promote SCP patterns and behaviour in the Mongolian construction industry by mobilizing the private sector along with relevant public sector authorities to develop construction products using fly ash and through advocacy to facilitate the use of green construction products and practices.

### THE WAY FORWARD

- Engaging with policy makers for approval of greener construction products and the elaboration of the required standards for fly ash products;
- Conducting an advocacy campaign with government bodies to facilitate the introduction of incentives for SMEs in the construction industry to use environmentally friendly products and practices, and the introduction of disincentives for the use of harmful products and practices;
- Awareness-raising with at least 200 SMEs;
- Training of trainers to provide technical training to SMEs interested in starting production of fly ash construction products.



**Duration** 1/2012 – 12/2015

**Total budget** EUR 1,690,341 (EU contribution: 80%)



### CARITAS CZECH REPUBLIC (CCR)

CCR manages and coordinates the project and implements the activities relating to the fly ash construction products.

Mr. Thibault Chapoy  
thibault.chapoy@caritas.cz  
Ms. Khongorzul Batbold  
khongorzul.batbold@caritas.cz



### MONGOLIAN NATIONAL CHAMBER OF COMMERCE AND INDUSTRY (MNCCI)

MNCCI strengthens the project with its extended business network and national experience in green labelling.

Mr. Tumenjargal Gombodash  
esco@mongolchamber.mn



### SWEDISH ENVIRONMENTAL RESEARCH INSTITUTE (IVL)

IVL provides expertise in sustainable buildings, energy-efficiency and sustainable production.

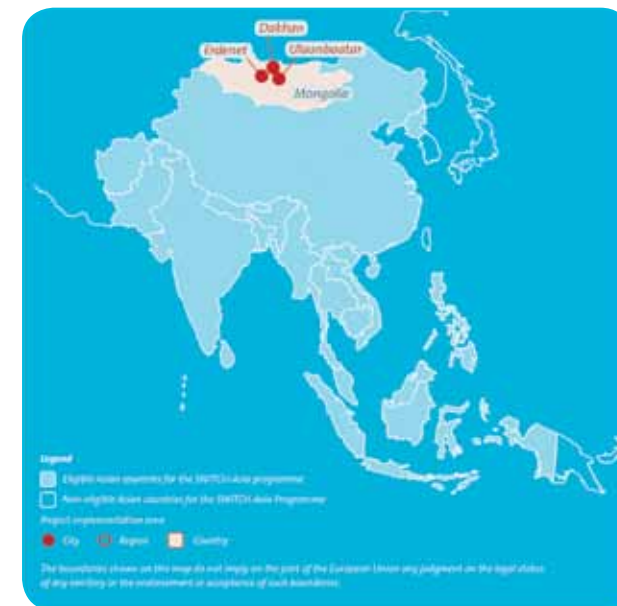
Mr. Ake Iverfeldt  
ake.iverfeldt@ivl.se



### CARITAS MONGOLIA (CM)

CM organises training, facilitates cooperation with the vocational training schools and universities, including facilitating changes in curricula.

Rev. Pierrot Kasemuana Kitengie  
caritasmongolia@yahoo.com





TURNING SHEEP WOOL INTO ENVIRONMENTALLY FRIENDLY BUILDING MATERIAL  
– INTEGRATED APPROACH FOR SUPPLY CHAIN DEVELOPMENT

THE CHALLENGE

The most of Mongolian wool production (more than 90%) is coarse wool. There is very little demand for coarse wool and it is sold almost without any value for pastoralists.

This type of wool is used mainly for production of carpets and felt mainly for GER insulation. Thus it is traditionally used as a construction material. Technology for the production of sheep wool building insulation (SWBI) and its usage within construction industry is known in the Czech Republic and other European countries. Additional knowhow transfer to wool processing SMEs and to the Mongolian construction sector will be one of the key outcomes of the project.

LEAD PARTNER

People in Need (Clovek v tísni, o.p.s),  
Czech Republic

PARTNERS

- National Association of Mongolian Agricultural Cooperatives (NAMAC), Mongolia
- Mongolian Nature and Environment Consortium (MNEC), Mongolia
- SEVEN, Středisko pro efektivní využívání energie, o.p.s. / SEVEN - Energy Efficiency Center, Czech Republic

CONTACT DETAILS

Mr. Quentin Moreau  
+976-70374183  
quentin.moreau@peopleinneed.cz  
Chinggis Khaan Bank 207, Darkhan City  
Mongolia

THE OBJECTIVES

The project aims at developing sustainable supply chain of SWBI as a green, environmentally-friendly innovative product improving resource efficiency, contributing to poverty reduction, economic development and reducing air pollution and greenhouse gas (GHG) emissions.

THE WAY FORWARD

- Training of SMEs on marketing of SWBI;
- Facilitating funding for SWBI production start-up and linking SMEs with financial institutions;
- Developing minimum quality standards of sheep wool suitable for insulation;
- Training of small scale suppliers/pastoralists on minimum quality standards;
- Linking producer SMEs with small-scale suppliers/pastoralist;
- Designing marketing strategies and training on marketing of SWBI;
- Conducting survey on possible funding ("green financing") for construction sector;
- Preparing drafts of prototype designs, containing technical condition description, basic design concept including necessary construction details.



Duration 1/2013 – 12/2015

Total budget EUR 891,412 (EU Contribution: 80 %)



PEOPLE IN NEED (PIN)

PIN is the lead applicant of this project and responsible for the overall management and technical expertise in sheep wool for building insulation (SWBI).

Mr. Quentin Moreau  
quentin.moreau@  
peopleinneed.cz



MONGOLIAN NATURE AND  
ENVIRONMENT CONSORTIUM  
(MNEC)

MNEC is one of project partners. It plays a role in the environmental education and advisory to policy makers to promote SWBI.

Mr. Badarch Mendbayar  
mnec8@yahoo.com



NATIONAL ASSOCIATION OF  
MONGOLIAN AGRICULTURAL  
COOPERATIVES (NAMAC)

NAMAC is a project partner. It contributes in developing purchase mechanism for sheep wool as well as SMEs capacity building (business plan development and marketing training).

Ms. Altantuya Tseden-Ish  
altantuya@namac.coop or info@  
namac.mn



SEVEN ENERGY EFFICIENCY CENTER

SEVEN is a project partner. It contributes in the awareness raising for SMEs in construction sector and engages in policy dialogue to support SWBI.

Mr. Juraj Krivosik, juraj.krivosik@svn.cz or seven@svn.cz



## UP-SCALING IMPROVED COOK STOVE DISSEMINATION IN MYANMAR THROUGH REPLICATION OF BEST PRACTICES FROM CAMBODIA AND THE REGION

### THE CHALLENGE

Myanmar is the second largest country in Southeast Asia with a population of 60 million. More than 70% of the population relies on firewood and charcoal for their daily cooking needs. Reducing biomass consumption through Improved Cook Stoves (ICS) is one of the widely recognised measures taken to strengthen economies at household scale. However, cook stove production remains non-standardised and fragmented. Consumers rarely have information on the quality, performance or safety. The absence of stove testing facilities, common stove performance protocols and standards are one of the main constraints to quality control and regulation of this informal market.

### LEAD PARTNER

Groupe Energies Renouvelables  
Environnement et Solidarités - GERES,  
France

### PARTNERS

- Ever Green Group (EGG), Myanmar
- ETC Foundation / ENERGIA, Netherlands
- Improved Cookstoves Producers and Distributors Association in Cambodia (ICoProDAC), Cambodia

### ASSOCIATE

Mercy Corps Scotland, UK

### CONTACT DETAILS

Mr. Julien Jacquot  
+855-(0)-23-986-891  
jjacquot@geres.eu  
#350, Str. 350, Phnom Penh  
Cambodia

### THE OBJECTIVES

The project promotes large-scale access to certified, efficient and clean biomass stoves for vulnerable men and women of Myanmar contributing to economic opportunities, poverty alleviation and climate change mitigation.

### THE WAY FORWARD

- Conducting cook stove market assessment;
- Drafting of generic standards framework for cook stoves together with Ministry of Environmental Conservation and Forestry;
- Stove testing and developing facility to create conditions for stove market development;
- Strengthening ICS supply chain, starting with identified network of 30 producers, through trainings;
- Involving the distribution chain to improve market access and reach the 'last mile' users;
- Identifying and involving consumer groups and community based organisations (CBOs) in awareness campaigns;
- Engaging in national policy dialogue to develop favourable policy frameworks.



**Duration** 1/2014 – 1/2018

**Total budget** EUR 2,407,393 (EU contribution: 83.08%)



### GROUPE ENERGIES RENOUVELABLES ENVIRONNEMENT ET SOLIDARITÉS (GERES)

GERES is the lead partner and responsible for the overall project management. It provides experiences in registration of ICS and other household energy projects on the international carbon markets.

Mr. Julien Jacquot  
jjacquot@geres.eu, juljac@gmail.com



### EVER GREEN GROUP (EGG)

EGG is a national implementing project partner, responsible for the implementation and maintenance of field activities in strengthening local ICS producers in the target areas.

Mr. Zaw Zaw Han  
zzhanster@gmail.com;  
zawzawhan@egg4sep.net



### ETC FOUNDATION / ENERGIA

As a project partner, ENERGIA contributes in integrating gender in the market and social economic assessments; develops and monitors gender action plan; develops gender sensitive promotional materials.

Mrs. Sheila Oparaocha  
s.oparaocha@etcnl.nl



### IMPROVED COOKSTOVES PRODUCERS AND DISTRIBUTORS ASSOCIATION IN CAMBODIA (ICOPRODAC)

As project partner, ICoProDAC provides knowledge and expertise in engaging ICS supply chain in Myanmar through inter-professional association.

Ms. Van Tola  
vann\_tola@yahoo.com, c.tep@geres.eu



## SMART MYANMAR – SMES FOR ENVIRONMENTAL ACCOUNTABILITY, RESPONSIBILITY AND TRANSPARENCY

### THE CHALLENGE

Despite some progress, Myanmar's garment industry still lacks awareness towards the principles of sustainable consumption and production (SCP) and social responsibility. This prevents SMEs of Myanmar's garment sector from promoting their products and increasing their access to international markets.

### THE OBJECTIVES

SMART Myanmar is going to tackle these problems and challenges and it actively promotes and supports the sustainable production of garments "made in Myanmar" striving to increase the international competitiveness of SMEs. Furthermore the project will set preconditions for replication towards other sectors.

### THE WAY FORWARD

- Conducting various trainings / workshops to strengthen the organisational capacity of the BMOs;
- Training and on the job coaching of SCP consultants to conduct company audits regarding SCP and coaching/ consultancy of companies to implement improvements;
- Replication of company audits including consultancy to at least 100 SMEs;
- Identifying the most important stakeholders and inviting them for study tour to Europe; after receiving a two-day training on SCP practices;
- Organising workshops with local banks on green financing instruments;
- Arranging two multi-stakeholder meetings organised for the sensitisation of policy-makers on SCP issues;
- Engaging in public-private dialogue for example in the realm of vocational education and training, in particular for further education;
- Promotion of Codes of Conducts for the whole garment sector;
- Identifying of showcase companies and benchmarking for best in class companies. The best companies will be supported to develop their marketing strategy and to participate in B2B and trade fairs in Europe.

### LEAD PARTNER

sequa gGmbH, Germany

### PARTNERS

- Sheffield Chamber of Commerce and Industry LBG (SCCI), UK
- Confederation of the German Textile and Fashion Industry (CGTFI), Germany
- Republic of the Union of Myanmar Federation of Chambers of Commerce in Myanmar Business (UMFCCI), Myanmar
- Myanmar Garment Manufacturers Association (MGMA), Myanmar
- Association of Development Financing Institutions in Asia and the Pacific (ADFIAP), Philippines

### ASSOCIATES

- Gesellschaft fuer Internationale Zusammenarbeit (GIZ), Germany
- Centre for the Promotion of Imports from developing Countries (CBI), Netherlands

### CONTACT DETAILS

Mrs. Simone Lehmann  
+49-228-9823847  
Simone.Lehmann@sequa.de  
Alexanderstraße 10,  
53111 Bonn  
Germany



**Duration** 1/2013 – 12/2015

**Total budget** EUR 1,996,942.07 (EU Contribution: 90%)



### SEQUA GGBH

sequa is the lead applicant of this project. It is responsible for the overall coordination and the implementation of all project activities.

Mrs. Simone Lehmann  
Simone.Lehmann@sequa.de



### SHEFFIELD CHAMBER OF COMMERCE AND INDUSTRY LBG (SCCI)

SCCI provides technical assistance with a focus on BMO capacity building, training of SCP consultants and SME audits.

Mr. Paul Tinsley  
Paul.tinsley@senta.co.uk



### MYANMAR GARMENT MANUFACTURERS ASSOCIATION (MGMA)

MGMA contributes as local coordination and implementation of project activities regarding the garment sector.

Mrs. Khine Khine Nwe  
rosaline429@gmail.com



### REPUBLIC OF THE UNION OF MYANMAR FEDERATION OF CHAMBERS OF COMMERCE IN MYANMAR BUSINESS (UMFCCI)

UMFCCI provides local coordination and implementation of project activities with a focus on SCP awareness campaigns, membership survey, SCP advocacy, public private dialogues, stakeholder meetings.

Mrs. Khine Khine Mwe  
rosaline429@gmail.com



### ASSOCIATION OF DEVELOPMENT FINANCING INSTITUTIONS IN ASIA AND THE PACIFIC (ADFIAP)

ADFIAP provides technical assistance with a focus on SCP awareness raising, (green) finance and development of incentive schemes on green financing.

Mr. Octavio B. Peralta  
obp@adfiap.org



### CONFEDERATION OF THE GERMANY TEXTILE AND FASHION INDUSTRY (CGTFI)

CGTFI provides technical assistance with a focus on matchmaking, organisation and implementation of study tour on SCP to Germany, training on business advocacy for BMOs, development of Code of Conduct for the garment industry.

Mr. Christoph Schäfer  
Cschaef@textil-mode.de





UP-SCALING THE PRODUCTION AND CONSUMPTION OF BIO-ENERGY TO REDUCE CARBON EMISSIONS AND ENHANCE LOCAL EMPLOYMENT IN NEPAL

THE CHALLENGE

With the recent rapid urbanisation and expansion of businesses, such as hotels, restaurants and brick industries, Nepal's overall energy requirement for both domestic and industrial purposes has increased substantially. At present these industries rely heavily on imported fossil fuels despite substantial increase in their prices in the past few years. It is therefore essential to meet the increasing energy demand and to replace environmentally hazardous fossil fuels with locally produced bio-energy, helping to reduce carbon emissions and create additional local employment.

LEAD PARTNER

HELVETAS Swiss Intercooperation,  
Switzerland

PARTNERS

- International Union for Conservation of Nature and Natural Resources (IUCN), Belgium
- Asia Network for Sustainable Agriculture and Bio Resources (ANSAB), Nepal
- Sustainable Technology Adaptive Research and Implementation Center Nepal (STARIC/N), Nepal
- Winrock International, USA

CONTACT DETAILS

Mr. Chandra Kanta Adhikari  
+977-1-5537622  
chandra.adhikari@helvetas.org.np  
Jhamsikhel, Lalitpur  
Nepal

THE OBJECTIVES

The project aims to contribute to national goal of poverty reduction through up-scaling the production and industrial consumption of bio-energy, thereby increasing employment and reducing carbon emissions.

THE WAY FORWARD

- Supporting bio-energy SMEs to develop business plans and to ensure their operations;
- Strengthening capacities of charcoal producers to ensure sustainable supply;
- Establishing link between cooperatives, banks insurance companies, and charcoal enterprises and improving technology to increase yield;
- Facilitating and capacitating charcoal marketing companies, retailers, business service providers, employees from socially and economically disadvantaged groups, association of charcoal producers; community forest user groups, hotel, restaurants and brick industries;
- Creating policy dialogue with government units at local level and monitoring the value chain dynamics;
- Monitoring of carbon emission, documentation and exploration for voluntary carbon markets.



Duration 1/2014 –12/2017

Total budget EUR 1,970,703 (EU contribution: 90%)



HELVETAS SWISS INTERCOOPERATION (HSI)

HSI is the lead partner and responsible for the overall project management. It contributes in enabling charcoal enterprises to make business planning and to link them with financial institutions.

Mr. Chandra Kanta Adhikari  
chandra.adhikari@helvetas.org.np, sa@helvetas.org.np



INTERNATIONAL UNION FOR CONSERVATION OF NATURE AND NATURAL RESOURCES (IUCN)

IUCN is a project partner. It supports forest user groups in planning and harvesting of biomass sustainably; and contributes to biomass harvesting for sale, negotiation with charcoal producers, distribution and use of income from the sale of biomass, and to the understanding of value chain.

Mr. Yam Malla  
yam.malla@iucn.org



ASIA NETWORK FOR SUSTAINABLE AGRICULTURE AND BIO RESOURCES (ANSAB)

As a project partner, ANSAB plays a role in developing complete value chain of bio-briquette; linking up producers with marketing companies and retail outlets; market expansion especially in hotel and restaurant industries; and strengthening charcoal associations.

Mr. Bishma P. Subedi  
ansab@ansab.org  
bhisshmasubedi@ansab.org



SUSTAINABLE TECHNOLOGY ADAPTIVE RESEARCH & IMPLEMENTATION CENTER / NEPAL (STARIC/N)

STARIC/N is a project partner. It provides capacity building for SMEs to produce quality charcoal to meet industrial requirements (enhancing occupational health and safety measures) as well as to enhance demand in brick industries.

Ms. Liva Shrestha  
info@staricnepal.org



WINROCK INTERNATIONAL (WI)

WI is a project partner and contributes to developing reliable channels between SMEs and local cooperatives / microfinance institutions, for access to finance as well as capacity building.

Mr. Binod Prasad Shrestha  
binod@winrock.org.np





## GREEN HOMES – PROMOTING SUSTAINABLE HOUSING IN NEPAL

### THE CHALLENGE

The housing sector contributes significantly to the local economy but also causes pollution and promotes unsustainable living. 18 % of total urban employment in Nepal is contributed by construction industries and there will be an additional need of 1 million urban houses from 2011-21. The sector imports most of its construction materials from India and China, thus creating large carbon footprints. To enhance sustainability, it is imperative to curb the energy consumption in the housing sector – both embodied in construction materials as well as during operation.

### LEAD PARTNER

United Nations Human Settlement Programme Nepal (UN-Habitat), Nepal

### PARTNERS

- Institute for Housing and Urban Development Studies (IHS), Netherlands
- Federation of Nepalese Chamber of Commerce and Industries (FNCCI), Nepal
- Environment and Public Health Organization (ENPHO), Nepal
- Clean Energy Nepal, Nepal
- Shelter & Local Technology Development Center (SLTDC), Nepal

### CONTACT DETAILS

Mr. Padma Sunder Joshi  
+977-1-5536699  
ps.joshi@unhabitat.org.np  
UN House, Pulchowk,  
Lalitpur  
Nepal



### THE OBJECTIVES

The project aims at creating an enabling policy environment to promote sustainable housing; strengthening supply chains for sustainable housing and building capacity of SMEs to deliver household level green technologies and services, and stimulating demand for sustainable housing.

### THE WAY FORWARD

- Assisting government in preparing policies and guidelines to provide a framework for promoting sustainable housing;
- Supporting three municipalities in designing and implementing incentive mechanisms for green housing promotion;
- Initiating dialogue with Department of Urban Development and Building Construction (DUDBC) to help in revising the National Building Codes;
- Developing a strategy for strengthening the supply chain and stimulating demand through the use of various marketing mechanisms;
- Promoting direct face-to-face interaction of SMEs and consumers through eco-fairs;
- Developing Voluntary Green Labelling system.



**Duration** 1/2013 – 12/2015

**Total budget** EUR 1,015,525 (EU Contribution: 85 %)



### UN-HABITAT

UN-Habitat is the lead applicant of this project. It is responsible for the overall coordination and the implementation of project activities.

Mr. Padma Sunder Joshi  
ps.joshi@unhabitat.org.np



### INSTITUTE FOR HOUSING AND URBAN DEVELOPMENT STUDIES (IHS)

IHS is one of project partners. It provides technical expertise on sustainable housing and is involved in workshop and training programmes.

Mr. Ogenis Brilhante  
secur@ihs.nl



### FEDERATION OF NEPALESE CHAMBER OF COMMERCE AND INDUSTRIES (FNCCI)

As a project partner, FNCCI plays a role in bringing cross-section stakeholders together and involving private sector in the action, and is involved in policy dialogue.

Ms. Jeevan Devi Kansakar  
jeevandevi@fncci.org



### ENVIRONMENT AND PUBLIC HEALTH ORGANIZATION (ENPHO)

ENPHO is a project partner. It contributes in the implementations particularly related to water, waste water and solid waste management activities.

Mr. Suman K. Shakya  
suman.shakya@enpho.org



### CLEAN ENERGY NEPAL (CEN)

CEN is one of the project partners and provides expert inputs in general and more specific to climate change issues and climate resilient planning including energy efficient construction products and processes.

Mr. Manjeet Dhakal  
manjeet@cen.org.np or  
info@cen.org.np



### SHELTER & LOCAL TECHNOLOGY DEVELOPMENT CENTER (SLTDC)

As a project partner, SLTDC provides its Green Building Expert team in the project which will be utilised in training and demonstration of various types of construction materials that are climate resilient and environment friendly.

Mr. Bhubaneswar Lal Shrestha  
blshres@gmail.com



**SUSTAINABLE PRODUCTION OF COMMERCIALY VIABLE PRODUCTS FROM MUNICIPAL WASTES THROUGH PUBLIC-PRIVATE PARTNERSHIPS IN GREEN SMES, GREEN CITY, GREEN AGRO PRODUCTS, AND GREEN EMPLOYMENT GENERATION**

**THE CHALLENGE**

Most of the municipalities in Nepal follow a disposal-centric approach for waste management. However, few attempts have been made to shift towards a recovery-centric approach. Those recovery-centric initiatives still lack financial viability. To support Government's efforts, the project will enable commercially viable compost production from municipal waste and consumption for tea and vegetable farming.

**LEAD PARTNER**

Winrock International, USA

**PARTNERS**

- PlaNet Finance, Nepal
- Namsaling Community Development Center (NCDC), Nepal

**ASSOCIATES**

- Ilam Municipality, Nepal
- Ilam District Development Committee, Nepal
- Ilam Chamber of Commerce and Industry, Nepal
- Agro Enterprise Center, Nepal
- Solid Waste Management Technical Support Center, Nepal
- Ace Development Bank Ltd., Nepal

**CONTACT DETAILS**

Mr. Binod Prasad Shrestha  
+977-14467087  
binod@winrock.org.np  
1103/68 Devkota Sadak, Baneshwor  
Nepal

**THE OBJECTIVES**

The project aims to enable a sustainable waste management system, construction and management of compost plant through Public-Private Partnership approach, promotion of compost use for organic tea and vegetable farming, and mobilisation of financial institutions to increase access to credit for the enhancement of organic farming.

**THE WAY FORWARD**

- Conducting awareness campaign on waste segregation at various levels;
- Establishing a Public-Private Partnership between Ilam Municipality and the private sector;
- Activating *tole* committees for waste management and income generation activities;
- Enhancing the capacity of agro-cooperatives on organic farming;
- Enhancing the quality of orthodox and CTC tea producers by supporting the production of high quality organic products;
- Enabling financial institutions to mobilise various forms of financing for SMEs and agro-cooperatives;
- Drafting policy papers for sustainable waste management system;
- Carbon documentation to explore additional financial potential from carbon market.



**Duration** 1/2014 – 1/2018

**Total budget** EUR 982,577 (EU contribution: 89.99 %)



**WINROCK INTERNATIONAL (WI)**

WI is the lead partner and responsible for the overall project management and activities.

Mr. Binod Prasad Shrestha  
binod@winrock.org.np



**PLANET FINANCE (PF)**

As project partner, PF is responsible for the operational implementation related to MSMEs, development of technical support and access to finance, and the setting up of PPP activity.

Mr. Suman Dhakal  
sdhakal@planetfinance.org



**NAMSALING COMMUNITY DEVELOPMENT CENTER (NCDC)**

NCDC is a project partner and plays role in social mobilisation for stakeholder coordination, awareness campaigns, and coordination at local/regional level.

Mr. Sajan Neupane  
ncdcilam@ntc.net.np or  
sajan.neupane@gmail.com



## ENHANCING SUSTAINABILITY AND PROFITABILITY OF THE CARPET AND PASHMINA INDUSTRIES IN THE KATHMANDU VALLEY

### THE CHALLENGE

Carpet and Pashmina production are Nepal's second and third largest source of export earnings, and provide the largest source of industrial employment. These industries, however, are constrained by outdated production methods that are inefficient and highly polluting, leading to reduced competitiveness and environmental impacts.

#### LEAD PARTNER

Mercy Corps, UK

#### PARTNER

Society for Environment and Economic Development- Nepal (SEED-Nepal)

#### ASSOCIATES

- Central Carpet Industries Association (CCIA), Nepal
- NMB Bank, Nepal
- Nepal Pashmina Industries Association (NPIA), Nepal
- Nepal Wool and Dyeing Industries Association (NWDIA), Nepal

#### CONTACT DETAILS

Ms. Jenny Hanley  
+44-131-662-2370  
jhanley@uk.mercycorps.org  
40 Sciennes, EH9 1NJ  
Edinburgh, UK

### THE OBJECTIVES

The project aims to increase resource efficiency, profitability, and sustainable growth by mobilising private sector and relevant public sector authorities to reduce fuel and water use, and water pollution in the Nepalese carpet and pashmina industries. The project promotes sustainable production and SME profitability in the two of Nepal's highest earning yet most polluting industries.

### THE WAY FORWARD

- Conducting cleaner production (CP) awareness campaigns and engaging the carpet and pashmina industry associations;
- Conducting training/workshops for the design, implementation and maintenance of CP techniques;
- Developing model units for dyeing and washing sub-sectors and promoting cross-visits;
- Providing financial literacy and business plan training for SMEs and access to financing;
- Capacitating CP service providers and carpet and pashmina industry associations;
- Supporting the Ministry of Industry and the Ministry of Science Technology and Environment in developing enforcement mechanisms for existing regulations.



**Duration** 1/2014 – 7/2017

**Total budget** EUR 1,058,939 (EU contribution: 90 %)



#### MERCY CORPS (MC)

MC is the lead partner and responsible for the overall project management and implementation.

Ms. Jenny Hanley  
jhanley@uk.mercycorps.org



#### SOCIETY FOR ENVIRONMENT AND ECONOMIC DEVELOPMENT- NEPAL (SEED-NEPAL)

SEED-Nepal is the project partner. It plays role in the implementation of SCP concept through application of cleaner production in carpet and pashmina industries including wool dyeing industries.

Mr. Durga Bahadur Karanjit, info@seednepal.org





**VSBK – VERTICAL SHAFT BRICK KILNS AND OTHER SCP –  
SUSTAINABLE CONSTRUCTION PRACTICES****THE CHALLENGE**

Katmandu valley is viewed as one of the most polluted areas in Asia. Exhaust fumes have increased four times over the past decade. Poor dispersion conditions, due to high hills and low wind-speeds are pre-disposing Kathmandu to serious air pollution problems. An increasing number of vehicles and conventional brick kilns are worsening the situation. The construction sector, including conventional brick production is a key source of CO<sub>2</sub> emission.

**LEAD PARTNER**

Deutsche Management  
Akademie Niedersachsen (DMAN),  
Germany

**PARTNERS**

- Skat Foundation,  
Switzerland
- Federation of Nepal Cottage and  
Small Industries (FNCSI),  
Nepal

**CONTACT DETAILS**

Mr. Christian Wagner  
+49-5141-973-213  
cwagner@dman.de  
Schlossplatz 1  
29221 Celle  
Germany

**THE OBJECTIVES**

The project aims to the promotion of sustainable consumption and production patterns in the construction industry, by raising awareness of private sector stakeholders for green building materials and solutions, and by providing consumer information on the benefits of clean energy and energysaving building material.

**THE WAY FORWARD**

- Reducing energy consumption and CO<sub>2</sub> emissions from and by the brick and building materials production sector in urban and semi-urban areas in Nepal;
- Engaging policy makers to create an enabling policy and regulatory framework and environment;
- Addressing SMEs to promote sustainable production and consumption patterns in the construction sector;
- Mobilising and capacitating private sector stakeholders for green building materials and solutions;
- Informing consumers about benefits of cleaner/low energy building material;
- Involving banks and financing institutions to provide favorable loans.



**Duration** 1/2012 – 4/2015

**Total budget** EUR 2,146,750 (EU Contribution: 90%)



**DEUTSCHE MANAGEMENT  
AKADEMIE NIEDERSACHSEN  
(DMAN)**

DMAN organises the overall activities and provides inputs in Business Development Services (BDS).

Christian Wagner  
cwagner@dman.de



**FEDERATION OF  
NEPAL COTTAGE AND  
SMALL INDUSTRIES  
(FNCSI)**

FNCSI involves in implementation of the project and organises workshops, seminars, awareness-raising campaigns, and networking.

Mr. Shyam Giri  
fncsi@ntc.net.np or  
Shyam.giri@vsbk-nepal.de



**SKAT FOUNDATION**

SKAT provides inputs in technical capacity building and technical advice on sustainable construction practices and production of construction materials.

Mr. Urs Hagnauer  
Urs.hagnauer@skat.ch or  
urs.hagnauer@vsbk-nepal.de





## SUSTAINABLE COTTON PRODUCTION IN PAKISTAN'S COTTON GINNING SMES

### THE CHALLENGE

The cotton and textiles sector accounts for 40% of Pakistan's total labour force and nearly 60% of exports. Despite its significance, cotton, owing to its high environmental footprint resulting from excessive use of pesticides and chemical fertilizers at the cultivation stage coupled with considerable wastage of water, is a resource which should be utilised wisely in this semi arid country. At the ginning level, direct environmental impacts result mainly from high energy consumption and inefficient production processes.

#### LEAD PARTNER

WWF Pakistan

#### PARTNERS

- WWF UK
- Pakistan Cotton Ginners' Association (PCGA), Pakistan

#### ASSOCIATES

- Better Cotton Initiative (BCI), Switzerland
- National Textile University (NTU) Faisalabad, Pakistan

#### CONTACT DETAILS

Mr. Asad Imran  
+92-62-2883909  
aimran@wwf.org.pk  
WWF Pakistan  
4-A Sawar M. Hussain Road Model  
Town A  
Bahawalpur  
Pakistan



### THE OBJECTIVES

By 2015, at least 500 cotton gin SMEs in Pakistan recognise the benefits of sustainable cotton production and consumption, and 40% of these commit to more sustainable production practices, in line with agreed better ginning practice guidelines, and supported by the procurement practices of European retailers.

### THE WAY FORWARD

- Working with 30 gins to demonstrate more sustainable ginning practices (and business benefits) and to increase supply of Better Cotton to European markets;
- Development of Better Ginning Practice Guidelines, to be endorsed by the Pakistan Cotton Ginning Association (PCGA);
- Building the capacity of 200 gins and key supporting institutions to adopt and support the adoption of Better Ginning Practices;
- Promoting the Better Ginning Practices Guidelines among a further 300 gins (PCGA members) and other cotton producing countries;
- Encouraging EU retailers to procure Better Cotton, and strengthen their links with Pakistani gins.



**Duration** 1/2012 – 12/2015

**Total budget** EUR 1,979,286 (EU Contribution: 80%)



#### WWF PAKISTAN

As lead applicant, WWF-Pakistan manages the project, coordinates monitoring and evaluation, consolidates reporting and financial management.

Mr. Asad Imran  
aimran@wwf.org.pk



#### PAKISTAN COTTON GINNERS' ASSOCIATION (PCGA)

PCGA provides input for identification and endorsement of Better Ginning Practices. It interacts with their members and ensures their participation.

Mr. Aman Ullah Qureshi  
pcga@pcga.org



#### WWF UK

WWF-UK engages with retailers on Better Cotton supply issues in Pakistan, and raises awareness and advocates for procurement of Better Cotton.

Ms. Rebecca May  
RMay@wwf.org.uk



## HIGH PRESSURE COGENERATION (HPC) FOR SUGAR SECTOR IN PAKISTAN

### THE CHALLENGE

Pakistan's sugar sector has an annual availability of 4.4 million metric tons of bagasse, sugar mill waste. To generate heat and electricity for its energy needs, sugar sector is using inefficient low pressure cogeneration system, consuming 46% more bagasse compared to HPC. Adoption of HPC is hampered by high upfront cost, technology risks, low capacity of technology providers, non-responsive financial sector and non-conducive regulatory regime.

### LEAD PARTNER

Iqbal Hamid Trust, Pakistan

### PARTNERS

- sequa gGmbH, Germany
- The Energy and Resources Institute (TERI), Pakistan
- Pakistan Sugar Mills Association (PSMA), Pakistan

### ASSOCIATES

- National Electric Power Regulatory Authority (NEPRA), Pakistan
- State Bank of Pakistan (SBP)

### CONTACT DETAILS

Mr. Omar M. Malik  
+92-423-6313235/6  
omar.malik@ihtpk.com  
19 Davis Road, Lahore  
Pakistan

### THE OBJECTIVES

The project promotes 1) sustainable production of energy through replication of existing HPC technologies in the sugar sector and 2) sustainable consumption of bagasse by supporting sugar mills in the adoption of HPC technology, through technology standardisation, enabling access to finance, and mobilising of relevant public sector authorities for the formulation of a conducive regulatory regime.



### THE WAY FORWARD

- Developing a Cost of Power Generation and a toolkit for swift tariff determination and approval for bagasse based projects;
- Conducting financial risk assessment of bagasse based power projects;
- Developing toolkits for State Bank of Pakistan's schemes for financing power plants using renewable power, and the credit guarantee (CD);
- Ensuring financial closure for 10 HPC projects;
- Providing trainings for 5 major Pakistani financing institutions, sugar mill financial departments on toolkits and CD, and technology providers to develop standardised HPC technology solutions;
- Establishing a National Bagasse Power Support Cell;
- B2B linkages between local and Indian technology providers of HPC systems.



**Duration** 3/2014 – 3/2018

**Total budget** EUR 2,161,785.20 (EU contribution: 79.80%)



### IQBAL HAMID TRUST (IHT)

IHT is the lead partner and responsible for the overall project management and implementation.

Mr. Omar M. Malik  
omar.malik@ihtpk.com



### PAKISTAN SUGAR MILLS ASSOCIATION (PSMA)

PSMA is a project partner. It hosts National Bagasse Power Support Cell offering technical, financial and regulatory consultancy to sugar sector. It contributes in engagement of relevant stakeholders, revision of indicative tariff, and policy advocacy.

Mr. Javed Kayani  
javedkayani@gmail.com or  
psma\_punjab@yahoo.com



### SEQUA GGBH

sequa is a project partner and responsible in cost of generation study for bagasse based power projects, financial risk analysis study, training of financial institutions, and finance departments of sugar mills.

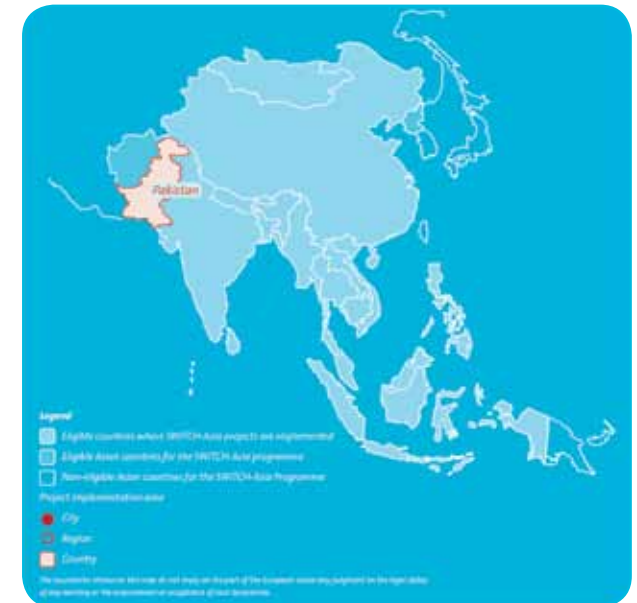
Mr. Markus Eicher  
markus.eicher@sequa.de



### THE ENERGY AND RESOURCES INSTITUTE (TERI)

TERI plays a role in the development of HPC standardised technical specifications, in-house capacity building on standardised design, creating B2B linkages between local and Indian technology providers, and training for technical staff of sugar mills.

Mr. Sunil Dhangra  
dhangras@teri.res.in



## CITY-WIDE PARTNERSHIP FOR SUSTAINABLE WATER USE AND WATER STEWARDSHIP IN SMES IN LAHORE, PAKISTAN

### THE CHALLENGE

Pakistan is a water stressed country and unsustainable water use and poor water management and governance practices are causing the increasing water scarcity.

Pakistan's population is expected to double to around 350 million by 2025 and this growth will put further pressure on water resources, particularly in urban areas, with consequent impacts on people's health, well-being, livelihoods and environmental sustainability more widely.

#### LEAD PARTNER

WWF Pakistan

#### PARTNERS

- WWF UK
- Cleaner Production Institute (CPI),  
Pakistan

#### ASSOCIATES

- Small and Medium Enterprises Development Authority (SMEDA),  
Pakistan
- Lahore Chambers of Commerce and Industry (LCCI), Pakistan

#### CONTACT DETAILS

Mr. Ali Hasnain Sayed  
+92-300-8429374  
ahsayed@wwf.org.pk  
WWF Pakistan Head Office Ferozepur Road, Lahore  
Pakistan

### THE OBJECTIVES

The project targets, by 2015, 300 processing and manufacturing SMEs in the target area have enhanced understanding of Better Water Management Practices (BWMPs), 75 high-water-use SMEs have increased water management capacity, and 25 SMEs are implementing BWMPs, supported by a multi-stakeholder city level water partnership.

### THE WAY FORWARD

- Conducting various trainings to strengthen the organisational capacity of the BMOs;
- Reviewing national and international experiences on BWMPs and Cleaner Production (CP) measures;
- Providing workshop trainings and on-the-job trainings for 25 showcase SMEs on BWMPs, CP, OHS and Environmental Management Systems;
- Conducting cost-benefit analysis for BWMPs and developing business case report;
- Providing cross-sectoral training workshops to 300 SMEs and supporting institutions;
- Assisting SMEs to be accredited to Alliance for Water Stewardship (AWS) standards.



Duration 1/2013 – 12/2015

Total budget EUR 815,688 (EU Contribution: 80%)



#### WWF PAKISTAN

WWF – Pakistan is the lead partner and responsible for overall project management, delivery and coordination. It leads the capacity building on water stewardship and engagement with policy makers.

Mr. Ali Hasnain Sayed  
ahsayed@wwf.org.pk



#### WWF UK

As a project partner, WWF-UK plays a key role in capacity building particularly on freshwater issues and water stewardship. It facilitates the city partnership and fosters a link between project with selected European organisations.

Mr. Conor Linstead  
clinstead@wwf.org.uk

#### CPI

Cleaner Production Institute

#### CLEANER PRODUCTION INSTITUTE (CPI)

CPI is a project partner. It is an NGO operating in all the industrial cities of Pakistan with experience of working with high water users and polluting SMEs to improve resource efficiency. It plays a role in capacity building and awareness raising activities.

Mr. Shafqat Ullah  
shafqat@pisd.com.pk



## INCREASING THE UPTAKE OF HIGH EFFICIENCY MOTORS (HEMS) AND DRIVE SYSTEMS IN PHILIPPINE INDUSTRIES

### THE CHALLENGE

According to a study, the efficiency of motors currently used by the Philippine industries can strongly be increased. Improvements do not consist only in motors replacement. 50% of motors are rewound periodically with a corresponding drop in efficiency of 5-10% at each rewinding. A significant share of the motors in place is also either undersized or oversized to compensate foreseen losses due to the low efficiency motors. The lack of proper sizing of motors leads to even lower efficiency and negatively impacts the life duration of the motors.

### LEAD PARTNER

Institute of Integrated Electrical Engineers of the Philippines (IIEE)

### PARTNERS

- European Chamber of Commerce of the Philippines (ECCP), *Philippines*
- International Copper Association Southeast Asia (ICASEA)
- Asia Society for Social Improvement and Sustainable Transformation (ASSIST), *Philippines*
- Association of Development Financing Institutions in Asia and the Pacific (ADFIAP), *Philippines*
- Association Action for Sustainable Development (ASD)

### ASSOCIATES

- Philippine Sugar Millers Association
- Bank of the Philippine Islands

### CONTACT DETAILS

Mr. Marvin Ryan G. Bathan  
+63-2-966-9462  
mrgbathan@iiee.org.ph  
#41 Monte De Piedad St.,  
1111 Quezon City  
*Philippines*

### THE OBJECTIVES

The project aims to increase energy efficiency of the electricity-intensive industries and achieve reduction in electricity consumption, and to reduce contribution of industries in greenhouse gas (GHG) emissions. Specifically, it aims to increase the deployment of more efficient electric motors and drive systems in Philippine industries.

### THE WAY FORWARD

- Demonstrating the technical and financial feasibility and benefits of adopting HEMS through two pilot projects for sugar mills;
- Establishing two new private funding programs to facilitate access to financing for sugar milling, other electric motor-intensive industries;
- Building up the capacity of commercial banks to evaluate HEM investment, especially regarding technology risk;
- Building up the capacity of energy service companies (ESCOs) and service providers to investigate and implement HEM projects;
- Increasing the capacity of project developers, SMEs and financier to get information, discuss and negotiate new business opportunities;
- Putting in place a supportive policy framework for HEMS investment.



**Duration** 1/2014 – 1/2018

**Total budget** EUR 1,970,469.20 (EU contribution: 80%)



### INSTITUTE OF INTEGRATED ELECTRICAL ENGINEERS OF THE PHILIPPINES (IIEE)

IIEE is the lead partner and a professional organisation of accredited electrical practitioners. IIEE is responsible for the overall project coordination and involved in capacity building activities.

Mr. Marvin Ryan G. Bathan  
mrgbathan@iiee.org.ph

Ms. Elaine L. Navat  
project.staff@iiee.org.ph  
navat\_elaine@yahoo.com



### EUROPEAN CHAMBER OF COMMERCE OF THE PHILIPPINES (ECCP)

In the project, ECCP plays a role in reaching out to equipment suppliers and service providers. ECCP facilitates the business matching activities.

Mr. German D. Constantino  
constantino@eccp.com



### INTERNATIONAL COPPER ASSOCIATION SOUTHEAST ASIA (ICASEA)

ICASEA is a member of the Copper Alliance. As project partner, ICASEA provides locally-based experts and advisory assistance from its energy efficiency program.

Mr. Jessie L. Todoc  
jessie.todoc@copperalliance.asia



### ASIA SOCIETY FOR SOCIAL IMPROVEMENT AND SUSTAINABLE TRANSFORMATION (ASSIST)

ASSIST is an international capacity building organisation. In the project, ASSIST provides support on development of pilot projects and on networking and dissemination.

Mr. Sreenivas Narayanan  
sreeni@assistasia.org



### ASSOCIATION OF DEVELOPMENT FINANCING INSTITUTIONS IN ASIA AND THE PACIFIC (ADFIAP)

As a project partner, ADFIAP provides extensive network to development banks and other financial institutions. ADFIAP provides facilitated access to information on experience existing in the ASEAN region.

Ms. Arlene S. Orenca  
asorencia@gmail.com



### ASSOCIATION ACTION FOR SUSTAINABLE DEVELOPMENT (ASD)

ASD contributes to the project by providing international expertise on HEMS and sharing European experience, in particular for the design of financing programs and capacity building activities for financing institutions and service providers.

Mr. Angelo Baggini  
angelo.baggini@ecd.it





## PROMOTING RENEWABLE ENERGY AS A DRIVER FOR SUSTAINABLE DEVELOPMENT AND MITIGATION OF CLIMATE CHANGE IN SRI LANKA

### THE CHALLENGE

The Sri Lankan tourism industry is booming with number of tourists increasing every year. Hotel and restaurant facilities need to deal with increasing amount of waste and growing energy costs. Biogas production is a sustainable win-win solution to manage their waste while contributing to their energy needs and reducing energy costs. However, development of biogas technology requires strong technical capacity of biogas units' constructors. The lack of after-sale service and maintenance of biogas units as well as lack of SME appropriate entrepreneurial capacities has hampered sustainability of past projects.

#### LEAD PARTNER

People In Need (Clovek v tisni, o.p.s),  
Czech Republic

#### PARTNER

Janathakshan, Sri Lanka

#### ASSOCIATES

- Lanka Biogas Association, Sri Lanka
- Practical Action, UK

#### CONTACT DETAILS

Mr. Petr Drbohlav  
+420-226-200-409  
petr.drbohlav@peopleinneed.cz  
Šafaříkova 24, Prague 2, 120 00  
Czech Republic

### THE OBJECTIVES

The project aims to create an enabling environment for a large-scale dissemination of biogas technology for SMEs in tourism industry and households. To achieve it, the project targets the demand side as well as the supply side by mobilising the manufacture and construction private sector, micro finance institutions (MFIs), tourism industry and the society as a whole.

### THE WAY FORWARD

- Conducting awareness workshops to promote the biogas technology;
- Providing capacity building to SMEs in construction and manufacturing sector;
- Designing and developing of accreditation scheme for masons and designers of biogas units;
- Developing a quality insurance and after sale services for biogas unit maintenance;
- Facilitating access to micro finance institutions (MFIs) and to "green" finance for SMEs;
- Linking MFIs with SMEs to broaden and facilitate investment possibilities;
- Strengthening the institutional framework by establishing an umbrella institution the Sri Lanka National Biogas Program (SLNBP).



#### PEOPLE IN NEED (PIN)

PIN is the lead partner and responsible for the overall project management and implementation.

Mr. Petr Drbohlav  
petr.drbohlav@peopleinneed.cz



#### JANATHAKSHAN

Janathakshan is the project partner for majority of the activities with particular focus on liaising with public authorities and creation of legal framework, technical aspects and outreach in the provinces.

Mr. Ranga Pallawala  
ranga@janatakshan.lk



**Duration** 1/2014 – 12/2016

**Total budget** EUR 831,931.42 (EU contribution: 80%)

## EuropeAid

### GREENING SUPPLY CHAINS IN THE THAI AUTO AND AUTOMOTIVE PARTS INDUSTRIES

#### THE CHALLENGE

Exporting cars to international markets requires the industry to also adopt international standards along the supply chain to keep quality and price competitive.

While Thailand has an adequate low-skilled labor force, it faces an acute shortage of highly skilled automotive engineers. Additionally, suppliers lack process and product engineering capabilities and innovation capacity to increase productivity and environmental performance in the automotive cluster in Thailand.

#### THE OBJECTIVES

The project aims at improving productivity and environmental performance of Thai auto and automotive parts production. It also aims at enhancing networks, business and financial services for greening of the industry. Furthermore, it aims at disseminating good practices and promoting the development and implementation of related policy and economic instruments.



#### LEAD PARTNER

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Germany

#### PARTNERS

- Thailand Automotive Institute, Foundation for Industrial Development, Thailand
- The Federation of Thai Industries, Thailand
- Small and Medium Enterprises Development Bank of Thailand (SME Bank), Thailand
- Collaborating Centre on Sustainable Consumption and Production (CSCP), Germany

#### CONTACT DETAILS

Ms. Wilasinee Poonuchaphai  
+66-2-661-9273  
wilasinee.poonuchaphai@giz.de  
193/63 Lake Rajada Office Complex,  
New Ratchadapisek Road, Klongtoey,  
Bangkok 10110  
Thailand

#### THE WAY FORWARD

- Supporting the improvement of technical equipment as well as operation procedures to increase SME productivity and thus competitiveness;
- Providing financial support for technical equipment as well as financial support for consultation and management services, audits and evaluations;
- Dissemination of good practise examples to the final target groups and drafting of policy recommendations that can serve as input of the SCP Policy Support Component action in Thailand.



**Duration** 2/2012 – 1/2015

**Total budget** EUR 2,020,000 (EU Contribution: 80%)



#### DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT (GIZ)

As lead applicant, GIZ manages the project and provides advisory services for chosen approaches and tools.

Ms. Wilasinee Poonuchaphai  
wilasinee.poonuchaphai@giz.de



#### THAILAND AUTOMOTIVE INSTITUTE (TAI)

TAI provides services on quality assurance of products and production systems. It links the project to tier 2 and 3 suppliers.

Ms. Chureerut Suwanvithaya  
chureerut@thaiauto.or.th



#### SMALL AND MEDIUM ENTERPRISES DEVELOPMENT BANK OF THAILAND (SME BANK)

The SME Bank's role is to develop and implement innovative financial packages and make them available to SMEs.

Ms. Chongrak Politanont  
chongrak@smebank.co.th



#### THE FEDERATION OF THAI INDUSTRIES (FTI)

FTI provides access to 12 related industrial groups (clubs), to reflect lessons learnt, to develop policy recommendation to government agencies, and to establish networking among various target groups.

Ms. Panrat Phechpakdee  
panratp@off.fti.or.th



#### COLLABORATING CENTRE ON SUSTAINABLE CONSUMPTION AND PRODUCTION (CSCP)

CSCP's role is to provide methodological, technical and policy advice—especially in the phases of developing materials and defining effective communication mechanisms.

Ms. Christina Raab  
Christina.raab@scp-centre.org



GETGREEN VN SUSTAINABLE LIVING AND  
WORKING IN VIETNAM

## THE CHALLENGE

In Vietnam several ongoing projects focus on delivering more sustainable products to both export and local markets. However, there are no known similar projects on sustainable consumption in the country. Therefore, it is important to raise consumer awareness of those sustainable products to create a demand for such products. The main target groups of the project are consumer groups and office workers groups. They are considered change agent towards patterns of more sustainable consumption, after being made aware, trained and educated on the concept with the support from trainers and experts during the project.

## LEAD PARTNER

Delft University of Technology,  
Netherlands

## PARTNERS

- Vietnam Cleaner Production Centre (VNCPC), Vietnam
- Asian Institute of Technology Center (AITCV), Vietnam

## CONTACT DETAILS

Mrs. Linda Roos  
+31-152782273  
l.roos@tudelft.nl  
Mekelweg 2,  
2628 CD Delft  
Netherlands

## THE OBJECTIVES

The project aims at contributing to an increased share of sustainable consumption by Vietnamese consumers in general. To achieve this, the project aims at increasing capacity of consumer organisations and government in convincing and supporting consumers in making the choice for more sustainable consumption behaviour.



## THE WAY FORWARD

- Preparing materials and information infrastructure necessary for deployment of the full approach:
  - a. GetGreen Guidebook,
  - b. Change Agent Training material (for 3-day training),
  - c. Web-based information and interaction tools;
- CSO Capacity building / 'Change agent' training in the form of two 3-day training workshops for further promotion of sustainable consumption;
- Creating a 'pool' of 1,000 individuals via 50 GetGreen consumer groups that will act as change agents to their direct living and/or working environment;
- Implementation through workshops, meetings and networking activities for the 50 GetGreen groups.



**Duration** 4/2012 – 3/2015

**Total budget** EUR 1,368,070 (EU Contribution: 80%)

DELFT UNIVERSITY  
OF TECHNOLOGY

TU Delft contributes significantly to the development of responsible solutions to urgent societal problems.

Mr. Dr. Marcel Crul  
M.R.M.Crul@tudelft.nl

VIETNAM CLEANER  
PRODUCTION CENTRE  
(VNCPC)

VNCPC is a centre of excellence and advocacy in the field of cleaner production.

Mr. Tran Duy Long  
long.td@vncpc.vn

ASIAN INSTITUTE OF  
TECHNOLOGY IN VIETNAM  
(AIT-VN)

AITCV trains masters in the fields of technology, engineering and management.

Ms. Nguyen Thi Bich Hoa  
hoa@aitcv.ac.vn





ESTABLISHING A SUSTAINABLE PANGASIUUS SUPPLY CHAIN  
IN VIETNAM

## THE CHALLENGE

The Vietnamese aquaculture's significance for the country cannot be overestimated. The sector supplies over 90% of the world pangasius export and hundred thousands

Vietnamese depend on it. Instead of its rapid growth, there is a huge concern of the environmental and social impacts of pangasius farms and processing facilities. Uneaten feed, unused medication and untreated chemicals often escape the farm and enter the rivers. Producers' general lack of knowledge results in poor quality products, leading processors and producers to compete on price rather than quality or added value.

## LEAD PARTNER

Vietnam Cleaner Production  
Centre (VNCPC), Vietnam

## PARTNERS

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

## ASSOCIATES

- Hung Vuong Co., Vietnam
- Asian Institute of Technology in Vietnam (AIT-VN), Vietnam
- Delft University of Technology (DUT – Netherland), Netherlands

## CONTACT DETAILS

Mr. Le Xuan Thinh  
+84-4-38684849/Ext. 27  
Thinh.LX@vncpc.org  
4th Floor, C10 Building,  
Hanoi University of Science and  
Technology, Hanoi  
Vietnam

## THE OBJECTIVES

The project aims that by the end of its action at least 70% of the targeted middle to large pangasius producing and processing SMEs, and 30% of the feed producers, hatcheries and small independent production SMEs are actively engaged in resource efficiency and cleaner production (RE-CP); and at least 50% of targeted processing SMEs are providing sustainable products with Aquaculture Stewardship Council (ASC) standard to EU and other markets.

## THE WAY FORWARD

- Defining the model farm and setting up training centre;
- Identifying potential buyers and conducting awareness-raising in the EU;
- Conducting capacity building on market requirements;
- Conducting study tours to model farm and leading companies;
- Providing capacity building for Vietnam national experts on international legislation regarding seafood markets;
- Providing advisory support in developing "bankable" investment proposals;
- Providing one-to-one support for ASC certification;
- Establishing synergies between feed producers and production and processing SMEs.



Duration 4/2013 – 3/2017

Total budget EUR 2,372,437 (EU Contribution: 80%)

VIETNAM CLEANER  
PRODUCTION CENTRE (VNCPC)

VNCPC is the lead applicant of this project. It is responsible for the overall coordination and the implementation of RE-CP, SPI and co-creation, as well as the operation of the Model Farm.

Mr. Le Xuan Thinh  
Thinh.LX@vncpc.org



## WWF AUSTRIA

WWF Austria is responsible for facilitating market links with buyers and for the study on market potential of sustainably produced Pangasius in Europe.

Ms. Sabine Gisch-Boie  
sabine.gisch-boie@wwf.at



## WWF VIETNAM

In the project, WWF Vietnam will lead the activities with production SMEs and small farmers, in particular the one-to-one support for ASC certification and the setting up of farmers groups.

Mr. Ngo Tien Chuong  
Chuong.ngotien@  
wwfgreatermekong.org

VIETNAM ASSOCIATION  
OF SEAFOOD EXPORTERS &  
PRODUCERS (VASEP)

VASEP is the leading seafood industry organisation in Vietnam. It develops and manages the E-platform and policy Work Packages.

Mr. Nguyen Hoai Nam  
namnh@vasep.com.vn





## LEAD PAINT ELIMINATION PROJECT

### THE CHALLENGE

It is well known that exposure to lead causes significant and widespread injury to human health, and that children are especially sensitive since even very low levels of exposure damages the developing brain. This is why lead is banned from gasoline and paints in Europe, the U.S. and Australia. However, in developing countries lead is still allowed in paints, and when these paints are used in e.g. homes and schools a number of lead exposure pathways are created. The greatest sources of exposure are from increase lead content of household dust and soils and the exposure of children through mouth contact.

#### LEAD PARTNER

International POPs Elimination Network (IPEN), Sweden

#### PARTNERS

- Arnika - Toxics and Waste Programme, Czech Republic
- Environmental and Social Development Organisation (ESDO), Bangladesh
- Balifokus, Indonesia
- Centre for Public Health and Environmental Development (CEPHED), Nepal
- The Just Environment Charitable Trust (Toxics Link), India
- ISEAL Alliance, UK
- Ecological Waste Coalition of the Philippines, Inc. (EcoWaste Coalition), Philippines
- Centre for Environmental Justice (Guarantee) Limited (CEJ), Sri Lanka
- Ecological Alert and Recovery Thailand (EARTH), Thailand

#### CONTACT DETAILS

Dr. Sara Brosché  
+46-31-7995900  
sara-b@ipen.org  
Box 7256  
SE-402 35  
Gothenburg  
Sweden

### THE OBJECTIVES

The project aims to significantly reduce or eliminate lead decorative paints on the market in the Asian partner countries, in this way promoting sustainable production and consumption and contribute to the global efforts aimed at eliminating the production and use of all decorative lead paints. This will reduce childhood lead poisoning and contribute to better health conditions for children in the seven participating countries.



### THE WAY FORWARD

- Raising public awareness of the hazards of low level lead exposure to children and that many decorative paints for sale on the market contain lead;
- Establishing national third-party paint certification and labelling programmes;
- Providing technical assistance to SME paint manufacturers since they tend to lack full and ready access to the information to reformulate their products;
- Policy dialogues aims at promoting the enactment and / or enforcement of national policy instruments to prohibit or restrict the manufacture, sale and use of lead decorative paints.



**Duration** 12/2011 – 6/2015

**Total budget** EUR 1,798,563 (EU Contribution: 77.8 %)



#### INTERNATIONAL POPS ELIMINATION NETWORK (IPEN)

As lead applicant, IPEN coordinates the project and provides expert services to the project.  
Ms. Sara Brosché, sara-b@ipen.org

#### BALIFOKUS

##### BALIFOKUS, INDONESIA

Balifokus implements actions such as disseminating information to the public, SMEs and manufacturers and facilitates the policy dialogue on lead paint in Indonesia.  
Mr. Yuyun Ismawati, yuyun@balifokus.asia



#### CENTRE FOR ENVIRONMENTAL JUSTICE (GUARANTEE) LIMITED (CEJ), SRI LANKA

CEJ implements actions such as disseminating information to the public, SMEs and manufacturers and facilitates the policy dialogue on lead paint in Sri Lanka.  
Ms. Hemantha Withanage, hemanthaw@eureka.lk



#### THE JUST ENVIRONMENT CHARITABLE TRUST (TOXIC LINKS), INDIA

Toxics Link implements actions such as disseminating information to the public, SMEs and manufacturers and facilitates the policy dialogue on lead paint in India.  
Mr. Satish Sinha, satish@toxicslink.org



#### ARNIKA - TOXICS AND WASTE PROGRAMME, CZECH REPUBLIC

Arnika provides technical assistance such as oversee project sampling and testing activities carried out by project Asian NGO partners.  
Ms. Jitka Strakova, jitka.strakova@arnika.org



#### CENTRE FOR PUBLIC HEALTH AND ENVIRONMENTAL DEVELOPMENT (CEPHED), NEPAL

CEPHED implements actions such as disseminating to the public, SMEs and manufacturers and facilitates the policy dialogue on lead paint in Nepal.  
Mr. Ram Charitra Sah, ephedo4@yahoo.com



#### ECOLOGICAL WASTE COALITION OF THE PHILIPPINES, INC. (ECO-WASTE COALITION), PHILIPPINES

The Eco Waste Coalition implements actions such as disseminating information to the public, SMEs and manufacturers and facilitates the policy dialogue on lead paint in the Philippines.  
Mr. Edwin Alejo, info@ecowastecoalition.org



#### ECOLOGICAL ALERT AND RECOVERY THAILAND (EARTH), THAILAND

EARTH implements actions such as disseminating information to the public, SMEs and manufacturers and facilitates the policy dialogue on lead paint in Thailand.  
Ms. Penchom Saetang, penchom\_a@yahoo.com



#### ENVIRONMENTAL AND SOCIAL DEVELOPMENT ORGANISATION (ESDO), BANGLADESH

ESDO implements actions such as disseminating information to the public, SMEs and manufacturers and facilitates the policy dialogue on lead paint in Bangladesh.  
Mr. Shahriar Hossain, shahriar25@gmail.com



#### ISEAL ALLIANCE, UK

ISEAL prepares and delivers training on certification programmes.  
Mr. Patrick Mallet, patrick@isealliance.org

SUSTAINABLE AND EFFICIENT INDUSTRIAL DEVELOPMENT  
IN BHUTAN AND NEPAL

## THE CHALLENGE

Nepal and Bhutan are among the least developed countries (LDC) in the world with 30.85% (2009 data) of Nepal and 23.2% (2010 data) of Bhutan below national poverty level. The unemployment rate in Nepal is 46%.

## LEAD PARTNER

Center for Appropriate Technology (GrAT),  
Austria

## PARTNERS

- ASSIST, Philippines
- Federation of Nepalese Chambers of Commerce and Industry (FNCCI)
- Bhutan Chambers of Commerce and Industry (BCCI), Bhutan
- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), Germany
- Austria Recycling (AREC), Austria
- STENUM Asia Sustainable Development Society (STENUM), India

## ASSOCIATES

- Federation of Nepal Cottage and Small Industries (FNCSI)
- Nepal Tourism Board (NTB)
- Sustainable Tourism Network of Nepal
- FNCCI / Agro Enterprise Center, Nepal
- Hotel Association Nepal
- Nepal Bankers' Association (NBA)
- Tourism Council of Bhutan
- UNIDO, Austria

## CONTACT DETAILS

Dr. Robert Wimmer  
+43-1-5880149523  
rw@grat.at  
Wiedner Hauptstr. 8 – 10,  
1040 Vienna  
Austria

[www.switch-seid.org](http://www.switch-seid.org)

## THE OBJECTIVES

The project contributes towards sustainable development of Nepal's and Bhutan's economy with clear focus on industrial sectors that impact environment, employment generation and poverty alleviation. The project aims to reduced costs, lower pollution; improved health and safety performance in tourism and agro based Industrial sectors.

## THE WAY FORWARD

- Capacity building for trainers (ToT) on resource efficiency (RE) and resource productivity (RP) approaches, tools and techniques;
- Consulting support on implementing RE and RP for SMEs including technical sensitisation and demonstrative training workshops to facilitate the implementation of the recommended measures;
- Empowering Academia aims at strengthening the interaction between industry and academia;
- Produce technological showcases that transfer key technologies which help promote sustainability in the targeted sectors;
- Assessment studies on policy and institutional mechanisms for promoting resource efficiency and safer production in Bhutan and Nepal;
- Development of specific mainstreaming instruments including instruments such as sectoral guidelines and code of conducts;
- Partnerships across the tourism and agro based industry sectors to seek synergies with similar projects and awareness campaigns aims at sensitising key stakeholders.



**Duration** 2/2012 – 5/2015

**Total budget** EUR 2,160,000 (EU Contribution: 90%)

CENTER FOR APPROPRIATE  
TECHNOLOGY (GRAT)

GrAT represents the partners' consortium, plan and manage the overall project activities, and implements appropriate technology solutions.

Dr. Robert Wimmer  
rw@grat.at

ASIA SOCIETY FOR SOCIAL IM-  
PROVEMENT AND SUSTAINABLE  
TRANSFORMATION (ASSIST)

ASSIST plays a role in customisation of RE (Resource Efficiency) and RP (Responsible Production) framework.

Mr. K. J. Sebastian  
sebastian@assistasia.org

FEDERATION OF NEPALESE  
CHAMBERS OF COMMERCE  
AND INDUSTRY (FNCCI)

FNCCI provides local coordination in Nepal and technical expertise in MSME support program.

Mr. Uttam Kumar Kunwar  
uttam.kunwar@fncci.org

BHUTAN CHAMBER OF COM-  
MERCE AND INDUSTRY (BCCI)

BCCI promotes strategic networking with local and foreign business organisations, and coordinate experts' dialogues with industries in Bhutan.

Mr. Kesang Wangdi  
kesang\_wangdi@hotmail.com

DEUTSCHE GESELLSCHAFT  
FUER INTERNATIONALE  
ZUSAMMENARBEIT  
(GIZ)

GIZ is responsible for the international best practice visit of national engineers in India.

Mr. Lalit Sharma  
lalit.sharma@giz.de

AUSTRIA RECYCLING  
(AREC)

AREC provides technical expertise in the training of national engineers regarding RE and RP, as well as MSME support programme.

Mr. Stefan Melnitzky  
stefan.melnitzky@arecon.at

STENUM ASIA SUSTAINABLE  
DEVELOPMENT SOCIETY  
(STENUM ASIA)

Stenum Asia supports the international experts in the training of national engineers and MSME support programme.

Mr. Rajat Batra  
rajat.batra@stenum-asia.org



PROMOTION AND DEPLOYMENT OF ENERGY EFFICIENT  
AIR CONDITIONERS IN ASEAN

## THE CHALLENGE

In ASEAN countries, inefficient air conditioners (ACs) have contributed to environmental problems due to inefficient electricity consumption as well as high GHG emissions.

Addressing this challenge might be difficult since there is still non-tariff barriers to trade that need to be removed to enhance regional market integration for higher efficiency ACs and there is not yet any harmonised energy efficiency (EE) standards for higher efficiency ACs in the region.

## LEAD PARTNER

European Copper Institute, Belgium

## PARTNERS

UNEP – Division of Technology, Industry and Economics (DTIE); International Copper Association Southeast Asia (ICASEA); Electrical and Electronics Institute (EEI), Thailand; SIRIM QAS International, Malaysia; Integrated Institute of Electrical Engineers (IIEE), Philippines; Research Center for Energy and Environment, Vietnam

## ASSOCIATES

Energy Division, Prime Minister's Office, Brunei Darussalam; Ministry of Industry and Energy, Cambodia; Ministry of Energy and Mineral Resources, Indonesia; Ministry of Energy and Mines, Laos; Ministry of Industry No.(2), Myanmar; Ministry of Energy, Green Technology and Water, Malaysia; Department of Energy, Philippines; Energy Market Authority, Singapore; Department of Alternative Energy Development and Efficiency (DEDE), Thailand; Ministry of Trade and Industry, Vietnam; ASEAN Secretariat, Indonesia; Collaborative Labeling and Appliances Standards Program (CLASP), USA; Federation of Thai Industries, Thailand; Energy Research & Testing Laboratory & Services, Philippines; Philippine Appliance Industries Association; Thailand Industrial Standard Institute (TISI); Vietnam Standard and Quality Institute (VSQI); Malaysian Air Conditioning and Refrigeration Association (MACRA); Underwriters Laboratories, China; Panasonic HA Air Conditioning R & D (M) Sdn. Bhd, Malaysia

## CONTACT DETAILS

Mr. Pierre Cazelles  
+86-159-0100-7376  
pierre.cazelles@copperalliance.asia  
Tianzuo International Center  
No.12, Zhongguancun South Avenue,  
Haidian District, Beijing 100081, China



## THE OBJECTIVES

The project aims at increasing the market share of higher efficient ACs in ASEAN through harmonisation of test methods and energy efficiency (EE) standards, adoption of common Minimum Energy Performance Standards (MEPS), and changing consumer purchasing attitudes in favour of energy efficient ACs.

## THE WAY FORWARD

- Establishment of the EU-ASEAN Energy Efficiency Standards Harmonisation Initiative;
- Harmonisation of standards for testing methods;
- Development of harmonised energy performance standards for ASEAN countries and adoption of a regional policy roadmap;
- Putting national policies in place to enforce the standards (MEPS), mobilising AC manufacturers in support of the national policy, creating awareness among end-users (households), creating an enabling environment for conformity assessment and market compliance, and having a time-bound plan for the progressive increase of MEPS over time;
- Providing capacity building for testing laboratories and AC manufacturers;
- Engaging consumer via awareness campaign.



Duration 1/2013 – 12/2016

Total budget EUR 2,186,374 (EU Contribution: 80%)

EUROPEAN COPPER  
INSTITUTE (ECI)

ECI is the lead applicant of the project. It ensures the overall coordination and project implementation, providing senior advices and identifying potential for synergies.

Mr. Nigel Cotton  
nigel.cotton@copperalliance.eu

ELECTRICAL AND  
ELECTRONICS  
INSTITUTE (EEI)

As Thailand's national accredited laboratory, EEI provides technical advices on the capacity building for testing laboratories and on harmonisation of standard for testing methods.

Mr. Thanasak Chaiyavech  
thanasak@thaei.com

RESEARCH CENTER FOR  
ENERGY AND ENVIRONMENT  
(RCEE)

As a partner, RCEE plays role in the implementation and coordination of project activities in Vietnam.

Ms. Phan Minh Thao  
thao.phan@rcee.org.vn

UNEP – DIVISION OF TECHNO-  
LOGY, INDUSTRY AND ECO-  
NOMICS (DTIE), ENERGY BRANCH

As a specialist in energy policies, UNEP leads the regional and national policy roadmap activities.

Mr. Rajiv Garg  
Rajiv.Garg@unep.org

SIRIM QAS  
INTERNATIONAL

In the project, SIRIM QAS is responsible for the implementation and coordination of activities in Malaysia.

Mr. Zamri Mustaffa  
zamri@sirim.my

INTERNATIONAL COPPER  
ASSOCIATION SOUTHEAST  
ASIA (ICASEA)

ICASEA is a project partner. It is responsible for the implementation and coordination of project activities in Thailand.

Pierre Cazelles  
Pierre.cazelles@copperalliance.asia

INTEGRATED INSTITUTE OF  
ELECTRICAL ENGINEERS (IIEE)

IIEE is a project partner. It is responsible for the implementation and coordination of project activities in Philippines.

Mr. Raymond Marquez  
ram882000@gmail.com





## EuropeAid

### SUSTAINABLE CONSUMPTION AND PRODUCTION (SCP) OF HAND-WOVEN TEXTILES (SONGKET, ULOS, LURIK, ABACA, IKAT): FEMALE ENTREPRENEURSHIP IN INDONESIA AND THE PHILIPPINES

#### THE CHALLENGE

Traditional hand-woven textiles are produced in one third of provinces in the Philippines and throughout Indonesia. However, poor product standardisation and limited technical capacity make it difficult for entrepreneurs to meet buyer demands for quantity, quality and deadlines. Limited access to supplies of quality natural dyes and eco-fibres also limit production. Moreover, low awareness of eco-labels or standards hinder the producers from realising a premium of wider markets.

#### LEAD PARTNER

Humanist Institute for Cooperation with Developing Countries (Hivos), Netherlands

#### PARTNERS

- Association for Women in Small Business Assistance (ASPPUK), Indonesia
- Non-Timber Forest Products – Exchange Programme (NTFP-EP), Philippines
- The Indonesian Woven Textiles Association (CTI), Indonesia

#### ASSOCIATES

- BNSP – The Indonesian Professional Certification Authority, Indonesia
- IPMI - Indonesian Fashion Designers Council, Indonesia
- Philippine Textile Research Institute Department of Science and Technology, Philippines

#### CONTACT DETAILS

Mr. Fajar Anugerah  
+62-21-7892489  
f.anugerah@hivos.or.id  
Jl. Kemang Selatan XII No. 1,  
Jakarta 12560  
Indonesia

#### THE OBJECTIVES

The project promotes sustainable consumption and production (SCP) of hand-woven eco-textiles in Indonesia and the Philippines by scaling-up successful SCP practices throughout the market chain, and supporting the development of an enabling policy environment.



#### THE WAY FORWARD

- Providing technical assistance to weavers, natural dye and fibre producers, and entrepreneurial groups and cooperatives, to support adoption of product and quality assurance standards;
- Providing technical assistance for hand-woven textile entrepreneurs on production techniques and ecodesigning;
- Conducting marketing training to improve awareness of marketing opportunities and requirements;
- Supporting joint ventures between producer groups to establish and manage provincial shops and distribution centres;
- Promoting business networking and sales through linkage of producers to wholesalers and retailers;
- Linking producer groups and cooperatives to finance institutions.



**Duration** 2/2013 – 2/2017

**Total budget** EUR 1,999,972.60 (EU Contribution: 80%)



#### HUMANIST INSTITUTE FOR COOPERATION WITH DEVELOPING COUNTRIES (HIVOS)

Hivos is the lead applicant and is responsible of the overall project management and monitoring. It provides technical support and capacity building.

Mrs. Nanneke Nix  
nnix@hivos.nl  
Mr. Fajar Anugerah  
f.anugerah@hivos.or.id



#### CITA TENUN INDONESIA – CTI (INDONESIAN WOVEN TEXTILES ASSOCIATION)

CTI is one of project partners. It plays a role in the project implementation activities in seven target areas in Indonesia, setting up the professional standard for weavers, in cooperation with the National Professional Certification Body.

Mrs. Cut Kamaril Wardani  
cutkamarilwardani@yahoo.com  
Mrs. Lila Yahya  
Lila.yahya@gmail.com



#### ASSOCIATION FOR WOMEN IN SMALL BUSINESS ASSISTANCE (ASPPUK)

ASPPUK is one of project partners. In the project it plays a role in providing technical assistance on quality assurance and international textile standards, and is involved in the opening of 14 new hand-woven ecotextile shops.

Mr. Mohammad Firdaus, Idos71@gmail.com or asppuk@indo.net.id  
Mrs. Mia Ariyana, Mia.ariyana@gmail.com



#### NON-TIMBER FOREST PRODUCTS – EXCHANGE PROGRAMME (NTFP-EP)

NTFP-EP is one of project partners. In the project it plays a role in providing technical assistance on quality assurance and international textile standards, and involved in the opening of 8 new hand-woven eco-textile shops.

Mrs. Ruth P. Canlas, ruthpcanlas@yahoo.com  
Ms. Maria Cristina Guerrero, crissyg33@yahoo.com





## ZERO CARBON RESORTS TOWARDS SUSTAINABLE DEVELOPMENT OF TOURISM SECTOR IN THE PHILIPPINES AND THAILAND

### THE CHALLENGE

Tourism is receiving increased attention as a development option in developing countries. But, with the vulnerability of developing countries to climate change, it is inevitable to take this issue into serious consideration in tourism. Building upon the achievements of the previous SWITCH-Asia "Zero Carbon Resorts (ZCR)" project, this project envisages going to the next level of energy efficiency towards a carbon neutral operation. With clear focus on access to finance and match with Green Hotel Label certification as incentive, cross country exchange of best practices will be facilitated.

### LEAD PARTNER

Center for Appropriate Technology  
(GrAT), Austria

### PARTNERS

- Palawan Council for Sustainable Development (PCSD), *Philippines*
- Green Leaf Foundation, *Thailand*
- Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT), *Spain*
- Healthy Public Policy Foundation (HPPF), *Thailand*

### ASSOCIATES

- Department of Tourism, *Philippines*
- Department of Energy (DOE), *Philippines*
- Tourism Infrastructure and Enterprise Zone Authority (TIEZA), *Philippines*
- Asian Development Bank (ADB), *Philippines*
- Development Bank of the Philippines (DBP)
- National Science Technology and Innovation Policy Office (STI), *Thailand*
- Thai Hotel Association (THA), *Thailand*
- Tourism Authority of Thailand (TAT), *Thailand*
- The Joint Graduate School of Energy & Environment (JGSEE) of King Mongkut University Thonburi (KMUT), *Thailand*
- Electricity Generating Authority of Thailand (EGAT)
- Department of Alternative Energy Development and Efficiency (DEDE), Ministry of Energy, *Thailand*
- Bangkok Bank, *Thailand*
- TMB Bank Public Company, *Thailand*

### CONTACT DETAILS

Mr. Robert Wimmer  
+43-1-58801-49523, rw@grat.at  
Wiedner Hauptstr. 8-10  
A-1040 Vienna, Austria

### THE OBJECTIVES

The project aims to contribute to sustainable development of tourism sector and its value chain in the Philippines and Thailand with a focus on reduction of resource consumption and CO<sub>2</sub> emissions. It targets a critical mass of SMEs demonstrate the value of green tourism by increasing resource efficiency and using renewable resources.

### THE WAY FORWARD

- Establishing new generation of ZCR members in Thailand and in at least 5 additional locations in the Philippines;
- Developing a Philippine Green Hotel certification scheme based on the Thai Green Leaf standard and the ZCR principles;
- Providing capacity building program, knowledge transfer, best practice exchange;
- Supporting access to finance for SMEs and developing proposals in close cooperation with funding agencies;
- Strengthening institutional capacity to formulate and implement policy on SCP for tourism sector in both countries;
- Ensuring availability of technical solutions and learning centers.



**Duration** 5/2014 – 5/2018

**Total budget** 2.286.283 (EU contribution: 80 %)



### CENTER FOR APPROPRIATE TECHNOLOGY (GRAT)

GrAT is the lead partner and responsible for the overall project management and implementation; content management and technical expertise on appropriate technologies and sustainable building.

Mr. Robert Wimmer  
rw@grat.at, zcr@grat.at



### CENTRO DE INVESTIGACIONES ENERGÉTICAS, MEDIOAMBIENTALES Y TECNOLÓGICAS (CIEMAT)

CIEMAT is a project partner and responsible for providing technical expertise on energy and water treatment; provides trainings; assists in the local design, implementation and evaluation of green technologies.

Mr. Guillermo Zaragoza  
guillermo.zaragoza@psa.es



### PALAWAN COUNCIL FOR SUSTAINABLE DEVELOPMENT (PCSD)

PCSD is a project partner. PCSD provides policy support and contributes to project sustainability in Palawan.

Mr. Nelson P. Devanadera  
oed@pcsd.ph



### HEALTHY PUBLIC POLICY FOUNDATION (HPPF)

HPPF is a project partner and responsible for knowledge and network managements, capacity strengthening activities, and policy initiatives.

Mr. Decharut Sukkumnoed  
tonlagroup@yahoo.com



### GREEN LEAF FOUNDATION (GLF)

As a project partner GLF contributes in adjusting project strategies to local contexts and provides links to hotels to integrate criteria for ZCR concept.

Mr. Chirapol Sintunawa  
greenleafthai@gmail.com



## RE-TIE BANGLADESH: REDUCTION OF ENVIRONMENTAL THREATS AND INCREASE OF EXPORTABILITY OF BANGLADESHI LEATHER PRODUCTS

### THE CHALLENGE

Tanneries in Bangladesh trigger three categories of waste: wastewater, solid waste and gas emissions. Water and resource consumption in Dhaka is unnecessarily high.

The main incentive for small and medium-sized enterprises (SMEs) in this area to switch away from their polluting production practices is the improved competitiveness and exportability of their products that results when they aim to comply with social and environmental standards.

### THE OBJECTIVES

The SWITCH-Asia project Re-Tie aims for SMEs of the leather industry to work more economically and ecologically and to be more sustainable with the use of aligned technologies and practices.

### RESULTS ACHIEVED

- 15 national experts on cleaner production (areas: water, energy, chemicals and Occupational Health and Safety / OH&S) trained;
- Application of cleaner production practises facilitated by the trained local experts and supervised by international experts like: hair-saving unhairing, solar water heating, full-scale chrome management, strict water management systems, float recycling, segregation of streams, (especially chrome bearing), segregation of solid waste, avoidance and monitoring of banned/hazardous substances, desalting of wet salted hides and skins, nonammonium salt deliming, low-energy drying, waterbased finishing etc. supported
- Business Membership Organisations (BMOs) in the leather sector are capable to promote SCP matters at policy and membership level;
- Technical assistance provided to influence the CP relevant physical infrastructure of the new industrial site for the leather industry in Savar. Export promotion through business match making, participation at trade fairs, development of Export Promotion Guide and CSR Guide.



**Duration** 2/2009 – 11/2012

**Total budget** EUR 2,071,001 (EU Contribution: 90%)

## SUSTAINABLE REVIVAL OF LIVELIHOODS IN POST-DISASTER SICHUAN: ENHANCING ECO-FRIENDLY PRO-POOR BAMBOO PRODUCTION SUPPLY CHAINS TO SUPPORT THE RECONSTRUCTION EFFORT

### THE CHALLENGE

In 2008 and 2013, earthquakes hit Sichuan province. Bamboo resources have the potential to play a major role in the development of post-disaster, pro-poor, environmentally sustainable industries. However, the bamboo supply chain still includes challenges like poor links between farmers, semiprocessors, and end-product SMEs. Farmers and producers lack knowledge on cleaner production practices and do not dispose of sufficient market and management capacity.

### THE OBJECTIVES

The project aims to contribute to eco-friendly pro-poor economic growth in the post-disaster Sichuan Province, especially in earthquake-affected areas, and to increase livelihood opportunities through the sustainable production of bamboo re-building materials. Sustainable bamboo production is ensured through increased resource efficiency and collaboration among target bamboo SMEs, as well as setup of policy and investment frameworks.

### RESULTS ACHIEVED

- Two government monitoring agencies have adopted the environmental monitoring system, in which 211 bamboo SMEs have been monitored. The monitored SMEs meeting existing environmental standards has raised from 38% to 71%;
- Improved resource efficiency in several demonstration enterprises with an estimated waste reduction by 10-15%. Over 20,000 farmers through 8 co-operatives have gained new income. About 201,146 bamboo farmers have indirectly affected by the project with an increased income ranging from 92 RMB/HH to 4,275 RMB/HH;
- Improved policy and investment environment for bamboo sector with 80 million RMB investment agreement signed;
- The Sichuan Construction Department has reviewed the "Technical Code on Sichuan Engineered Bamboo Structure (recommendation)".
- More than 500 thousands people have gained an improved awareness about bamboo products and has potentially led to an increase in demand for bamboo products;
- More than 220,000 m<sup>3</sup> bamboo additionally processed, replacing 256,000 m<sup>3</sup> of timber.



**Duration** 1/2010 – 1/2014

**Total budget** EUR 2,467,869 (EU Contribution: 80%)

#### LEAD PARTNER

sequa gGmbH,  
Germany

#### PARTNERS

- UN Industrial Development Organisation (UNIDO), *Austria*
- bfz gGmbH, *Germany*
- Dhaka Chamber of Commerce and Industry (DCCI), *Bangladesh*
- Bangladesh Finished Leather, Leathergoods and Footwear Exporters Association (BFLFEA), *Bangladesh*

#### ASSOCIATE

Bangladesh Tanners Association (BTA),  
*Bangladesh*

#### CONTACT DETAILS

Mr. Gerhard Weber  
+49-228-98238-22  
Gerhard.Weber@sequa.de  
Alexanderstr. 10, D-53111 Bonn  
*Germany*

#### LEAD PARTNER

International Network for  
Bamboo and Rattan (INBAR),  
*China*

#### PARTNERS

- Benelux Chamber of Commerce (BenCham), *China*
- Sichuan Provincial Forestry Department (SPFD), *China*
- EU Project Incubation Centre Changdu (EUPIC), *China*

#### ASSOCIATE

International Center for  
Bamboo and Rattan (ICBR)

#### CONTACT DETAILS

Dr. Lou Yiping  
+86-10-64706161  
yplou@inbar.int  
P.O. Box 100102-86, Beijing 100102  
*China*

## EuropeAid

**ELECTRIC MOTOR SYSTEMS ENERGY-SAVING CHALLENGE –  
IMPROVING THE OPERATING EFFICIENCY OF CHINESE ELECTRIC MOTOR SYSTEMS****THE CHALLENGE**

Electric motor systems in industrial China account for about 60 % of the country's total electricity consumption. Their actual operational efficiency is mostly about 10-30% below international best practice. As the majority of electricity in China is generated from coal, electric motor systems are a significant contributor to climate change. Certain sectors are particularly intensive users of electric motors but are often unaware of the huge potential savings in energy and the quick return on investment for upgraded motor systems.

**LEAD PARTNER**

China National Institute of  
Standardization (CNIS), *China*

**PARTNERS**

- ESCO Association of China Energy Conservation Association (EMCA), *China*
- Instituto de Sistemas e Robotica of University of Coimbra (ISR-UC), *Portugal*
- UN Industrial Development Organization, Investment and Technology Promotion Office (UNIDO ITPO), *China*

**CONTACT DETAILS**

Mr. Zhang Xin  
+86-10-5881132  
zhangxin@cnis.gov.cn  
No. 4 Road Zhi Chun,  
Beijing, 100088  
*China*

**THE OBJECTIVES**

The project aims to assist industrial users of electric motor systems in switching to high-efficiency motor systems, thus reducing their electricity costs and CO<sub>2</sub> emissions by 1 million tons per year and it aims to achieve a far-reaching impact in the demand for high-efficiency motor systems.

**RESULTS ACHIEVED**

- 400 major industrial users of electric motor systems have improved the operating efficiency by upgrading an average capacity of 2,100 kW in motor systems each, which run at an average of 6,000 hours per year.
- CO<sub>2</sub> emission reduction (1 million tons per year);
- Promotion of high-efficiency motor system products;
- Promotion of best practice in the design and application of energy-efficient motor systems;
- On-going China Motor Systems Challenge Clubs established with a current membership of 600.
- More than 1,000 industrial motor system users and 264 energy service companies (ESCOs) have taken part in the training workshops.
- The policy efforts have a lasting impact on the market, through: Future standards removing out-dated low-efficiency products from the market; New labelling providing clear and simple information to users who will be able to make a more informed buying decision.



**Duration** 11/2008 – 11/2011

**Total budget** 1,124,946 (EU Contribution: 80%)

**IMPROVING ENVIRONMENTAL AND SAFETY PERFORMANCE IN ELECTRICAL AND  
ELECTRONICS INDUSTRY IN CHINA****THE CHALLENGE**

China's economic boom has increased energy consumption and environmental degradation. Concerns for the health and safety of both workers and consumers are now growing. The electrical and electronics industries have been significant players in this economic growth and often play an important role in international supply chains. At the same time, they are substantial contributors to China's water and air pollution, and are significant emitters of carbon dioxide.

**THE OBJECTIVES**

The project aims to promote sustainable production patterns in the electrical and electronics industries. By mobilising the private sector along with relevant public sector authorities, the project seeks to improve the performance of over 500 Chinese SMEs in the electrical and electronics sector in the areas of eco-efficiency, occupational health and safety (OHS) as well as corporate social responsibility (CSR).

**RESULTS ACHIEVED**

- Facilitated trade and cooperation among Chinese and European enterprises of electrical & electronics sector resulting from compliance with eco-efficient and sustainable production standards;
- Reduced risk of workplace accidents and health hazards through implemented OHS measures;
- Improved social standards through implemented CSR practices;
- Baseline survey on environmental performance of Chinese electrical & electronics enterprises conducted;
- Standards Guidelines developed and disseminated;
- Conformity model for SMEs applied in 5 regional clusters;
- Declaration signed by 6 key domestic industry players;
- SME Training and Assessment Programme implemented: more than 20 training workshops and a series of assessments;
- More than 1,600 SMEs & 200 policy-makers involved in project activities.



**Duration** 2/2009 – 2/2013

**Total budget** EUR 2,599,087 (EU Contribution: 80%)

**LEAD PARTNER**

Delegation of German Industry and  
Commerce Beijing / Deutscher  
Industrie- und Handelskammertag, *China*

**PARTNERS**

- China Standard Certification Center, *China*
- China National Institute of Standardization, *China*
- Chinese Institute of Electronics, *China*

**ASSOCIATE**

Deutsche Telekom AG, *Germany*

**CONTACT DETAILS**

Mr. Igor Darbo  
+86-10-6539-6728  
darbo.igor@bj.china.ahk.de  
8 North Dongsanhuan Road,  
100004 Beijing  
*China*

## EuropeAid

CHINA HIGHER EFFICIENCY POWER AND DISTRIBUTION  
TRANSFORMERS PROMOTION PROJECT

## THE CHALLENGE

The annual loss of electricity in China is more than 20 billion kWh. About 30-40% of this loss derives from power transmission and distribution. Large energy intensive industries use a lot of transformers and upgrading the inefficient ones is not economical – the energy savings generated are not enough to compensate for the investment cost. Local manufacturers lack capacity to produce higher efficiency transformers. End-users do not see the advantages of using them.

## THE OBJECTIVES

The project seeks to reduce electricity loss by increasing the market penetration of higher efficiency transformers (S11 and above), and by enlarging their market share in China.



## RESULTS ACHIEVED

- Close partnerships were established among the policy-makers, institutes, manufacturers, end-users and energy management and supervision organisations.
- Three national standards for transformers were developed: the minimum energy performance standards (MEPS), the eco-design guidelines for manufacturers, and a total-cost owning guideline (TCO) and tool to support procurement decisions. The MEPS standard was submitted and will be issued officially by the government in 2013. The eco-design standard and TCO guideline were issued and effective at 2012 officially.
- The MEPS is mandatory and thus all newly installed transformers will have to comply once it is approved.
- The acceptance of the eco-design guideline by Chinese manufacturers was ensured by a closed involvement of China Electrical Equipment Industrial Association (CEEIA).
- End-users are enabled to take an informed decision by using the TCO guideline and products' database developed by the project.



**Duration** 12/2009 – 12/2012  
**Total budget** EUR 781,832.95 (EU Contribution: 80%)

IMPLEMENTING INDUSTRIAL SYMBIOSIS AND ENVIRONMENTAL  
MANAGEMENT SYSTEMS IN TIANJIN BINHAI NEW AREA

## THE CHALLENGE

Tianjin Binhai New Area (TBNA) needs to tackle problems such as large quantities of industrial waste, lack of effective networks for creating waste exchange synergies between companies, and weak environmental management capacity.

## THE OBJECTIVES

The project aims to promoting sustainable production and consumption pattern among SMEs in TBNA by introducing industrial symbiosis and environmental management systems. By creating an industrial symbiosis network, the project seeks to facilitate material, by-product, energy, logistic exchange and knowledge transform among 800 SMEs to achieve sustainable production Tianjin Binhai New Area (TBNA).

## RESULTS ACHIEVED

- An industrial symbiosis (IS) network has been developed with 99 synergies among member companies, achieving a CO<sub>2</sub> reduction of 167,000 tons, diverting 1,430,000 tons of waste from landfill, and reducing company cost of 73,000,000 Yuan RMB with total increase of revenue 112,000,000 Yuan RMB.
- The TBNA industrial symbiosis information platform containing information on the demand and supply of green technology in TBNA and vicinity has been built. The database contains contact information on 955 SMEs.
- 101 SMEs received walk-through audits, 300 SMEs applied for ISO14001 training, and 41 of them obtained the ISO14001 certification.
- Supported TEDA Environmental Protection Bureau (EPB) to launch whole process management of normal solid waste among 47 pilot SMEs;
- Developed guidelines for industrial symbiosis network establishment in China;
- Drafted some policy report to local authority on implementation of IS network in eco-industrial parks.



**Duration** 10/2009 – 10/2013  
**Total budget** EUR 1,848,316 (EU contribution: 80%)

## LEAD PARTNER

Tianjin Economic and Technological Development Area (TEDA)  
Administrative Commission,  
China

## PARTNERS

- Industrial Symbiosis Ltd., UK
- UNIDO – Investment and Technology Promotion Office, China
- Tianjin Municipal Economic Commission, China
- Tianjin Port Free Trade Zone Administrative Committee, China
- Tianjin Harbour Industrial Park Administrative Commission, China

## ASSOCIATES

- TEDA International Chamber of Commerce (ICC), China
- National Center for Innovation Research on Circular Economy of Nankai University, China
- UK - Department for Environment, Food and Rural Affairs

## CONTACT DETAILS

Mr. Xu Yufeng  
+86-182-010-08199  
xyfi dea@gmail.com  
No.19 Hongda Street  
300457 Tianjin  
China

[www.ecoteda.org](http://www.ecoteda.org)



## EuropeAid

SUSTAINABLE PUBLIC PROCUREMENT IN URBAN ADMINISTRATION  
IN CHINA

## THE CHALLENGE

In September 2006, China's Ministry of Finance and the State Environmental Protection Administration (now the Ministry for Environmental Protection) issued a directive fostering green public procurement. This is now accompanied by a frequently updated 'green purchasing list' of eco-friendly products and producers. The listed products should receive priority in public procurement, but in reality, implementation at a local level is still lacking.

## THE OBJECTIVES

The project aims to adapt and use sustainable public procurement standards in municipal public procurement centres in Tianjin, Qinhuangdao and Lanzhou and to mainstream their application in China.



## RESULTS ACHIEVED

- The SUPP-Urb project provided assistance with the design and implementation of sustainable public procurement (SPP) in three municipal public procurement centre.
- European good practice, experiences and lessons learnt were discussed with the centres and included in technical guidelines for sustainable public procurement for the target cities.
- The focus of the action was on product groups and services which have a particularly high potential for environmental improvements.
- Project results were disseminated at stakeholder workshops and conferences attended by several associated Chinese cities interested in SPP.
- The changes in procurement practices of the three targeted PPCs achieved reductions of 105,749 tonnes CO<sub>2</sub>. This is the equivalent of the annual CO<sub>2</sub> emissions of 17,335 Chinese people in 2009.



Duration 12/2008 – 12/2011

Total budget EUR 917,450 (EU Contribution: 80%)

SUSTAINABLE BUILDING INTERIOR RENOVATION AND  
DECORATION INITIATIVE IN CHINA

## THE CHALLENGE

The building, construction, and decoration market in China is booming. Renovation and decoration can cause severe health problems for both the workers of renovation/decoration companies (related to the exposure to dust, solvents, etc.) and the inhabitants of the buildings living with indoor air pollution. Due to the substantial amount of materials used, the generation and inadequate disposal of waste, and the hazardous emissions, renovation and decoration can have a serious impact. The absence of product information, insufficient capacity, and limited access to sustainable products, sustainable renovation and decoration services remain a challenge in China.

## THE OBJECTIVES

The project seeks to improve the health of inhabitants of newly decorated and renovated buildings and the employees of decoration companies, as well as a better environment, by reducing energy consumption and environmental impact related to the building interior renovation and decoration (BIRD) practices and production.

## RESULTS ACHIEVED

- Achieved adequate supply and easy access to healthy and environmentally friendly decoration products and appliances for consumers and SMEs;
- Increased capability of SMEs to apply sustainable BIRD products, working materials and procedures;
- Market pull created through increased awareness and information of end consumers;
- The seeds for incentives for sustainable BIRD has been set through an enhanced policy framework.
- An institutional network of Sustainable BIRD SMEs (™Sustainable BIRD Initiative) to promote (pilots, show cases) & support sustainable BIRD has been established.
- A case of an innovative market transformation mechanism applied in China has been created that is replicable in other Asian countries



Duration 12/2009 – 11/2013

Total budget EUR 2,122,828 (EU Contribution: 80%)

## LEAD PARTNER

Wuppertal Institute for Climate,  
Environment and Energy, *Germany*

## PARTNERS

- Environmental Management College of China
- Collaborating Centre on Sustainable Consumption and Production (CSCP), *Germany*
- Faculty of Environmental Science and Technology Nankai University, *China*
- Lanzhou Environmental Protection Bureau, *China*
- Tianjin Public Procurement Centre, *China*
- Lanzhou Public Procurement Centre, *China*
- Qinhuangdao Public Procurement Centre, *China*

## ASSOCIATE

Tianjin Governmental Procurement  
Office (TJPPPO)

## CONTACT DETAILS

Ms. Urda Eichhorst  
+49-202-2492-103  
urda.eichhorst@wupperinst.org  
Döppersberg 19, 42103 Wuppertal  
*Germany*

<http://public-procurement.emcc.cn>

## LEAD PARTNER

China Standard Certification Center (CSC),  
*China*

## PARTNERS

- Product Certification CO., *China*
- Quality Mark Certification Group (CQM), *China*
- Science and Technology Promotion Center of MoHURD (CSTC), *China*
- IVL Swedish Environmental Research Institute Ltd (IVL), *Sweden*
- United Nations Environment Programme Division of Technology Industry and Economics (UNEP-DTIE), *France*
- Collaborating Centre on Sustainable Consumption and Production (CSCP), *Germany*

## CONTACT DETAILS

Mr. Wei Bo  
+86-10-6070-0961  
weibo@cnis.gov.cn  
No.4, Zhichun Road,  
Beijing, 100088  
*China*

## EuropeAid

“TRAIN THE TRAINERS”: A PROPOSAL TO TRAIN CHINESE CONSTRUCTION SECTOR SME'S  
IN ENERGY SAVING TECHNIQUES AND TECHNOLOGIES

## THE CHALLENGE

The construction industry in China accounts for half of the floor newly built every year in the world, while the construction sector remains among the top 3 CO<sub>2</sub> emitters in the country. This vast and fast construction, further spurred by the extensive Chinese urbanisation process, often occurs by means of poor quality materials and applications, to the detriment of energy-efficiency. A widespread assumption remains that energy-efficient construction implies higher costs and is not worthy to be invested in.

## LEAD PARTNER

European Union Chamber  
of Commerce in China

## PARTNERS

- IVL Swedish Environmental Research Institute Ltd, Sweden
- Tongji University Shanghai, China

## CONTACT DETAILS

Dr. Zhang Yongming  
+86-(21)-6598-1353  
zym126@tongji.edu.cn  
Tongji University,  
Siping Road 1239,  
Shanghai 200092  
China

[www.train-the-trainers.net](http://www.train-the-trainers.net)

## THE OBJECTIVES

The project aims to improve energy efficiency in buildings produced by the Chinese construction industry in the Greater Shanghai region. It empowers the Chinese industry and decision-makers to conceive, design and apply energy efficiency measures throughout the life cycle of buildings. The project shares European experiences and best practices in energy efficiency (including materials, standards and applications), adjusting them to local climate and regulatory specificities.



## RESULTS ACHIEVED

- Provided long-term sustainability, replication and upscaling of Project achievements via the newly-established permanent “Sino-European Energy-Efficient Training and Research Centre”;
- Expanded the range of services and target groups as well as the geographical outreach of the project;
- Promoted European building standards, certifications and best practices;
- Provided policy input at regional, national, supra-national levels.



Duration 2/2009 – 7/2013

Total budget EUR 2,979,198 (EU Contribution: 80%)

PROMOTING FAIR TRADE AND SUSTAINABLE  
CONSUMPTION IN INDIA

## THE CHALLENGE

Small-scale farmers and artisans can tap into an export market. A growing interest from the urban middle class and youth gives them an additional opportunity to escape poverty by selling their products nearer to home. The income profile of these consumers gives this national market good potential. There is no policy directly supporting fair trade, but many ministries and government departments are keen to promote it, along with sustainable consumption and consumer rights.

## THE OBJECTIVES

The project aims to create a consumer market for fair trade products that improves rural livelihoods and stimulates producers to follow environmentally sustainable production practices by converting corporate procurement, by developing a retail channel for fair trade and by promote a common message for fair trade and popularising the products to consumers.



## RESULTS ACHIEVED

- Raised awareness of fair-trade products among consumers;
- Converted corporate procurement to fair trade;
- A dedicated retail channel for fair trade has been developed through creation of a commonly-branded network of shops for the members of the Fair Trade Forum – India.
- Access for fair-trade certified products in mainstream retail channels was gained.
- Secured commitments / tap opportunities from government ministries and other agencies to promote fair trade.



Duration 1/2010 – 6/2013

Total budget EUR 1,040,076 (EU Contribution: 80%)

## LEAD PARTNER

Humanist Institute for Cooperation  
with Developing Countries (HIVOS),  
Netherlands

## PARTNERS

- International Resources for Fairer Trade (IRFT), India
- Fair Trade Forum-India (FTF-I), India

## ASSOCIATE

Shop for Change Fair Trade, India

## CONTACT DETAILS

Mrs. Aruna Rangachar Pohl  
+91-80-41222591  
aruna@ifhd.in  
#o6, 1st Floor, 2nd Cross, Vasantanagar,  
Bangalore  
India

## EuropeAid

SUSTAINABLE TEXTILES FOR SUSTAINABLE  
DEVELOPMENT IN INDIA

## THE CHALLENGE

The textile industry has a very special place in the Indian economy, as it is one of the largest and the oldest manufacturing sectors in the country. It employs about 35 million people second only to agriculture and another fact that it is one of the most chemically intensive industries produces the most hazardous waste and proper disposal facilities are not available. On an average, it takes about 1893 liters of water to produce just enough fabric to cover one sofa. The growth of small and medium enterprises (SMEs) has led to altered production processes resulting in a range of environment and health hazards.

## THE OBJECTIVES

The objective of the project is to promote the production and consumption of eco-friendly textiles and improve employment and working conditions of artisans.

## RESULTS ACHIEVED

- The Common Effluent Treatment Plant (CETP) has been set up at the JITPPL (Jaipur Integrated Textcraft Park Pvt. Ltd.). The state-of-art infrastructure at JITPPL includes STP (Sewage Treatment Plant), rain water harvesting and solar electricity provisions.
- A toolkit on sustainable textile production has been prepared and is being disseminated. A database of sustainable raw materials has been developed. This includes a list of suppliers of organic cotton and natural dyes.
- Skills development training of 1000 artisans has been completed in block printing, sewing machine operator and tie and dye skills. Of these 807 artisans are women.
- Three Effluent Treatment Plants (ETPs) as models demonstrating low cost ETP technology have been set up at Bhuj – Gujarat; Lunkaransar – Bikaner and Balotra in Barmer, Rajasthan.
- Policy briefs on environment, occupational health and safety (OHS) issues and the Scheme for Integrated Textiles parks (SITP) have been developed and submitted to the relevant governmental departments.
- The project's OHS recommendations for artisans have been accepted by the Planning Commission and will be considered in the Government's 12th five year plan.



Duration 1/2009 – 7/2013

Total budget EUR 2,091,181 (EU Contribution: 80 %)

ESTABLISHING E-WASTE CHANNELS TO ENHANCE  
ENVIRONMENT FRIENDLY RECYCLING

## THE CHALLENGE

The rapid growth of electronics and electrical industries and high obsolescence rates of their products is continually generating more waste. India needs to deal with major disposal challenges. 95 % of e-waste (computers, mobile phones and televisions) enters informal channels of backyard, home and cottage industry recyclers – harming workers and the environment. Emissions from the open burning, unhealthy dismantling and smelting units, makeshift facilities are not meeting occupational health and safety standards but are still being used for toxic waste, unsorted e-waste openly dumped.



## THE OBJECTIVES

The project aims to work with all major stakeholders, but particularly the informal sector, to formalise and mainstream environmentally sound e-waste management in line with recent policy and regulations; to raise awareness and the potential for new technologies; and for changes to be based on sustainability and business principles wherever possible.

## RESULTS ACHIEVED

- With the notification of E-waste Management and Handling Rules 2011 a supportive regulatory framework was developed.
- Guidelines for implementation of Rules were drafted.
- Establishment of informal sector associations/ companies in four Indian cities;
- Establishment of an e-waste collection and channelisation mechanism;
- Capacity building for informal sector workers, recyclers and policy makers;
- Research and development on Green Products and Carbon Footprint;
- E-waste calendars, school poster competitions, a television slot, a project film for Rio+20 and general awareness programmes contributed to awareness on e-waste.



Duration 1/2010 – 12/2013

Total budget EUR 2,004,045.37 (EU Contribution: 80 %)

## LEAD PARTNER

Traidcraft Exchange, UK

## PARTNERS

- All India Artisans and Craftworkers Association (AIACA), India
- Associates Consortium of Textile Exporters (COTEX), India
- IL&FS Cluster Development Initiative Ltd., India

## CONTACT DETAILS

Ms. Neeti Malhotra  
+91-9810012596  
neetim@traidcraft.org

Mr. Ravi Kharka  
+91-11-26416492  
r.kharka@aiacaonline.org  
18 Community Centre,  
3rd Floor, East of Kailash  
New Delhi – 110065  
India

## LEAD PARTNER

Deutsche Gesellschaft für  
Internationale Zusammenarbeit  
(GIZ) GmbH, Germany

## PARTNERS

- Toxics Link, India
- Manufacturers' Association of Information Technology (MAIT), India
- adelphi Research, Germany

## CONTACT DETAILS

Dr. Ashish Chaturvedi  
+91-11-49495300 / 01 / 02  
ashish.chaturvedi@giz.de  
B-5/2, Third Floor,  
Safdarjung Enclave,  
New Delhi - 110029  
India

[www.weeerecycle.in](http://www.weeerecycle.in)

## EuropeAid

SUSTAINABLE PRODUCTION (SP) OF THE BIOMASS INDUSTRIES  
IN MALAYSIA: OPTIMISING ECONOMIC POTENTIAL AND  
MOVING TOWARDS HIGHER VALUE CHAIN

## THE CHALLENGE

Malaysia produces a minimum of 168 million tons of biomass annually and its full potentials for commercialisation appears to be promising for those biomass SMEs who are in the value chain of biomass processed products. Nevertheless, the promotion of biomass products will spur the green technology sector and contribute to the global climate change mitigation effort. The identified challenges for these SMEs are: accessibility to green financing facilities, compliance with environmental standard as well as availability of raw material / feed-stock supply for bigger scale biomass commercialisation projects.

## LEAD PARTNER

Malaysian Industry-Government Group  
for High Technology (MIGHT), *Malaysia*

## PARTNERS

- European Biomass Industry Association (EUBIA), *Belgium*
- Danish Technological Institute (DTI), *Denmark*
- Association of Environmental Consultants and Companies of Malaysia (AECCOM), *Malaysia*

## CONTACT DETAILS

Ms. See Wan Beh  
+603-8884-8822  
swb@biomass-sp.net  
No 20, Jalan Diplomatik,  
Presint Diplomatik 62050 Putrajaya  
*Malaysia*

[www.biomass-sp.net](http://www.biomass-sp.net)

## THE OBJECTIVES

The project aims to develop the biomass industry based on the principle of sustainable production (SP) by enhancing the supply chain and uptake of biomass utilisation projects by Malaysian SMEs and other biomass stakeholders.



## RESULTS ACHIEVED

- At least 8,800 biomass stakeholders have been reached through various programmes organised by the Project and other organisers.
- 11 SMEs were certified with ISO 14001 Environmental Management System (EMS), 1 successfully registered with Verified Carbon Standard (VCS), 1 certified with Eco-label and 1 completed LCA with the Project's technical assistance.
- Greenhouse gases reduction of 3,006,304 tCO<sub>2</sub>eq/year inclusive of potential 2,800,000 tCO<sub>2</sub>eq/year;
- New value creation from Project activities and intervention / assistance of EUR 0.22 - 0.66 million;
- Green financing of EUR 1.12 million from Project referral;
- Facilitated partner referral for a new EU Project under FP7 and it was successfully awarded.



**Duration** 1/2010 – 1/2014

**Total budget** EUR 2,248,688.37 (EU contribution: 80 %)

GREEN PRODUCTS DEVELOPMENT AND  
LABELLING IN MONGOLIA

## THE CHALLENGE

Mongolia has a strong history of locally produced goods. But the products have in average poor quality; the manufacturing process often has an inefficient use of resources and little pollution prevention. The constraints for the manufacturers are the lack of experience on improving, manufacturing and marketing their products in line with sustainable product standards, being unfamiliar with the upcoming green label developments in Mongolia.



## THE OBJECTIVES

This project aims to encourage green products development and eco-labelling for locally produced products in Mongolia in order to reduce their negative environmental impacts, strengthen Mongolian standards on sustainability and enhance production and sales.

## RESULTS ACHIEVED

- 160 companies (222 people), or two times the targeted participants, attended the information and expert training seminars.
- 50 eligible green product applications with 80 companies were selected for further support and for in-depth training.
- Successful Green Products Fairs were organised together with the 'Organic Mongolia' programme with over 10-thousand visitors and registered sales of 30 thousand US-dollars.
- 17 baseline assessments and 6 business plans have been received by the MNCCI. 14 more business development plans were reported to have been received by the Capitron Bank.
- A new version of the Mongolian Eco-label standard was drafted, followed by its translation for the international experts' review.



**Duration** 12/2009 – 4/2012

**Total budget** EUR 933,257 (EU Contribution: 80 %)

## LEAD PARTNER

IVAM UvA BV, *Netherlands*

## PARTNERS

- Mongolian National Chamber of Commerce and Industry (MNCCI), *Mongolia*
- Mongolian Agency for Standardization and Metrology (MASM), *Mongolia*
- Centre for Appropriate Technology (GrAT), *Austria*

## ASSOCIATES

- Ministry of Industry and Trade (MIT), *Mongolia*
- Ministry of Nature and Environment (MNE), *Mongolia*
- Ministry of Food and Agriculture (MFA), *Mongolia*

## CONTACT DETAILS

Mr. Jaap van der Meer  
+31-20-525-52-95  
jvdmeer@ivam.uva.nl  
Plantage Muidergracht 14,  
1018 TV Amsterdam  
*Netherlands*



## EuropeAid

### PROPOSAL FOR ENHANCEMENT OF SUSTAINABLE PRODUCTION OF LOKTA HANDMADE PAPER PRODUCTION IN NEPAL

#### THE CHALLENGE

Handmade paper is a traditional craft in Nepal, produced by SMEs in the rural mountain regions, using a local plant called lokta. The major part of the population has very limited resources and employment possibilities. The sector has a significant economic and poverty reduction potential given that 90 % of the handmade paper and products produced in Nepal are exported. The inefficient resource extraction and production processes, however, do not allow farmers and entrepreneurs to exploit the full economic potential.

#### LEAD PARTNER

Nepal Handmade Paper Association,  
Nepal

#### PARTNERS

Deutsche Gesellschaft für  
Internationale Zusammenarbeit (GIZ),  
Germany

#### CONTACT DETAILS

Mr. Prayag Raj Tamrakar  
prayag\_tamrakar@yahoo.co.uk  
Nepal Handmade Paper Association  
House No. 69, Banijya Kendra Marga,  
Bijulibazaar  
Kathmandu  
Nepal

#### THE OBJECTIVES

The project aims to improve the extracting method of the lokta plant, to increase the efficiency of and reduce the pollution from paper making, to strengthen the capacity of Nepal Handmade Paper Association and to further develop the European market.

#### RESULTS ACHIEVED

- Cost efficiency of the hand-made paper and products increased;
- Social and environmental challenges associated with the paper production addressed;
- Lokta cutting and forest management training conducted – 1,195 lokta cutters benefited from the training;
- Paper making training organized – 727 paper makers benefitted;
- Training on waste water management conducted – 30 entrepreneurs were trained to use waste water to clean up a polluted environment;
- Analysis for marketing approach of Lokta paper finalised.



**Duration** 1/2009 – 12/2011

**Total budget** EUR 1,400,004 (EU Contribution: 90 %)

### SUSTAINABLE AND CLEANER PRODUCTION IN THE MANUFACTURING INDUSTRIES OF PAKISTAN

#### THE CHALLENGE

In Pakistan, several cleaner production initiatives have been undertaken in the past decade (assessment of needs, energy audits, technical assistance to adopt energy efficiency and waste water recycling techniques, raising awareness on cleaner production packages). Despite these initiatives, the target sectors leather and textile lack know-how and capacity to apply sustainable production technologies and be aware of environmental impacts and associated potential financial benefits.

#### THE OBJECTIVES

This project aims to implement a range of energy and resource efficiency initiatives in the textile and tannery sectors in Pakistan, with the potential to adapt these initiatives to other manufacturing industries in the long-term (e.g. sugar, pulp and paper, steel rolling etc.).

#### RESULTS ACHIEVED

- Defined knowledge has been given on the manufacturing production chain and technological capacities.
- Increased capacity of IEMs to improve the energy and resource efficiency of production and implement SP practices in the targeted industries;
- Local educational institutes are now fostering academic-industrial partnerships to educate students in E&RE technologies.
- Series of pilot E&RE implementations are now available for replication by other SMEs, showcasing a complete model for SP in the manufacturing processes.
- Trained IEMs on SP technology, implementation and business strategies, supported by knowledge acquired from the pilot initiatives;
- Sustainable production network has been implemented and linkages between IEMs and EU environmental standard organisations were established.
- An established and capable manufacturing sector focused on enabling the proliferation of E&RE technologies;
- Strengthened and innovative policy framework for implementing and inciting SP practices in the manufacturing industries;
- Increased awareness and access to know-how and training in SP technologies at the local and regional level.



**Duration** 3/2009 – 2/2013

**Total budget** EUR 1,408,592 (EU Contribution: 80 %)

#### LEAD PARTNER

TTZ Bremerhaven Institute  
for Water-Energy and Landscape  
Management, Germany

#### PARTNERS

- Collaborating Centre on Sustainable Consumption and Production (CSCP), Germany
- Iqbal Hamid Trust (IHT), Pakistan
- Cleaner Production Institute (CPI), Pakistan

#### CONTACT DETAILS

Mr. Faraz Rasheed Mir  
+49-471-80934-125  
frasheedmir@ttz-bremerhaven.de  
An der Karlstadt 6,  
27568 Bremerhaven  
Germany

[www.sci-pak.org](http://www.sci-pak.org)

## EuropeAid

## CREATING GREENPHILIPPINES ISLANDS OF SUSTAINABILITY

## THE CHALLENGE

Manila Bay is the Philippines major economic centre. At the same time it is the country's hot spot for pollution. Manila has been cited by the World Health Organisation as one of the most polluted places in the world. The challenge for Metro Manila and its linked CALABARZON region is great, as the country has a huge energy deficit. The Philippines is heavily dependent on fossil fuel. In addition, the level of law enforcement with regard to environmental regulations among industry is low.

## THE OBJECTIVES

The project aims to contribute to an improved environmental and sustainable industrial development of Metro Manila and CALABARZON regions by reducing the pollution and increasing the resource efficiency of participating companies.

## RESULTS ACHIEVED

- Established an individual coaching to companies by experienced consultants in cleaner production, energy and resource efficiency, service and product development;
- Transferred knowledge through interactive workshops and coaching, combined with a system of quality assurance and monitoring;
- Established a periodical 12-month capacity building programme of combined workshops and coaching, to make participating companies clean up their production process and become resource efficient, with different programmes tailored to the varying needs of the clients;
- Established CLUB programme for those companies who successfully completed the base programme, and will continue to an advanced level to improve more on their environmental performance.



**Duration** 11/2009 – 5/2014

**Total budget** EUR 2,386,970 (EU Contribution: 80%)

## SMART CEBU: SMES FOR ENVIRONMENTAL ACCOUNTABILITY, RESPONSIBILITY AND TRANSPARENCY

## THE CHALLENGE

Cebu's home and lifestyle industry has a negative impact on the environment. Energy and raw materials are not used wisely. Production processes release dust and fumes from sanding, cutting and paint spraying, exposing workers with inadequate protection to unhealthy pollution. Despite some progress, the industry lacks awareness of the principles of sustainable consumption and production and CSR.



## THE OBJECTIVES

The project SMART CEBU helps partners to switch to cleaner production processes. Three of Cebu's home and lifestyle industry sectors receive assistance on how to convert to cleaner production and develop new eco-friendly product lines for the green markets of Europe.

## RESULTS ACHIEVED

- SMART Cebu has established itself as the front-liner for advocating the greening of industries in Cebu.
- Government agencies (DTI/DOST) have recognised SMART Cebu as the partner to work with in the promotion of eco-friendly industries and a cleaner Cebu environment
- Participating companies have improved their designs, products and processes.
- With the experience of SMART Cebu in assisting Cebu home and lifestyle sectors, other sectors like tourism and food are seeking the assistance of SMART Cebu/ECCP. RECP services are now being offered by SMART Cebu to hotels, resorts, restaurants as well as other, ongoing SWITCH-Asia projects.
- The Project has created a pool of trained and accredited RECP experts that could assist in improving resource efficiency and increasing competitiveness.
- The three partner BMOs are back to life, having discovered that "Green Business is Good Business", thus offering new services to their member companies.



**Duration** 2/2010 – 9/2013

**Total budget** EUR 1,223,482 (EU Contribution: 80%)

## LEAD PARTNER

VSB-Technical University Ostrava  
(VSB-TUO), Czech Republic

## PARTNERS

- Centre for Appropriate Technology (GrAT) and STENUM as member of GrAT, Austria
- Austrian Recycling (AREC), Austria
- ASSIST, Philippines
- European Chamber of Commerce of the Philippines (ECCP)
- Philippine Chamber of Commerce and Industry (PCCI)
- Philippine Business for the Environment (PBE)

## ASSOCIATES

- Environmental Practitioners' Association, Philippines
- Department of Environment and Natural Resources, Philippines
- Philippine Trade Training Centre (PTTC)

## CONTACT DETAILS

Ms. Alena Labodová  
+42-0-596995540  
alena.labodova@vsb.cz  
17.listopadu 15,  
708 33 Ostrava-Poruba  
Czech Republic

[www.greenphilippines.com.ph](http://www.greenphilippines.com.ph)

## LEAD PARTNER

sequa GmbH,  
Germany

## PARTNERS

- European Chamber of Commerce of the Philippines (ECCP)
- Cebu Furniture Industries Foundation, Inc. (CFIF), Philippines
- Association of Fashion Accessories Manufacturers (FAME), Philippines
- Association of Gift, Toys and Houseware Manufacturers (CEBU-GTH), Philippines
- Association of Development Financing Institutions in Asia and the Pacific (ADFIAP), Philippines
- Energy Efficiency Agency NRW (EFA), Germany

## ASSOCIATE

VDID (German Industrial Designer Association), Germany

## CONTACT DETAILS

Mr. Thomas Ritter  
+49-228-982-38-46  
Thomas.Ritter@sequa.de  
Alexanderstr. 10,  
D-53111 Bonn  
Germany

[www.smartcebuproject.com](http://www.smartcebuproject.com)

## EuropeAid

ZERO CARBON RESORTS – BUILDING ENERGY AUTONOMOUS RESORTS  
CREATING APPROPRIATE TECHNOLOGY SOLUTIONS

## THE CHALLENGE

The tourism industry in the Philippines is growing fast, bringing employment and strengthening the economy of the country. Tourism has, however, a high demand for energy in providing guest services, and is responsible for a large amount of CO<sub>2</sub> emissions. Due to the poor electricity supply infrastructure and inefficient appliances wasting, energy costs are escalating for small tourist businesses. Carbonneutral, appropriate local and environmental technology solutions are required and call for a revision of environmental policy by the regional government.

## LEAD PARTNER

Center for Appropriate Technology  
(GrAT),  
Austria

## PARTNERS

- Palawan Council for Sustainable Development (PCSD), *Philippines*
- CIEMAT – Plataforma Solar de Almería, *Spain*
- Asia Society for Social Improvement and Sustainable Transformation (ASSIST), *Philippines*

## ASSOCIATES

- Atelier Schmidt, *Switzerland*
- Department of Environment & Natural Resources (DENR), *Philippines*
- Philippine Department of Tourism
- Tourism Infrastructure and Enterprise Zone Authority (former Philippine Tourism Authority)
- Philippine Department of Energy (DOE)

## CONTACT DETAILS

Dr. Robert Wimmer  
+43-1-58801-49523  
zcr@grat.at  
Wiedner Hauptstrasse 8-10,  
A-1040 Vienna  
Austria

[www.zerocarbonresorts.eu](http://www.zerocarbonresorts.eu)

## THE OBJECTIVES

The project aims to raise awareness and to reduce the carbon footprint of energy services in the tourism sector by switching to using renewable energy sources. It will also stimulate the local production and use of green technologies for buildings.

## RESULTS ACHIEVED

- Established simple measures that are easy to implement by SMEs and tourists in order to improve energy performance;
- Investing the savings gained from the reduce strategy to substitute outdated and inefficient appliances with green and efficient technologies has been promoted.
- A new design of a zero carbon resort (flagship cottage) embracing sustainable buildings and energy services based on renewable resources;
- Trained local engineers, builders, designers, and SMEs;
- Embedded results from the 3R approach (reduce, replace, redesign) in regional law and disseminating them for replication in other regions.



**Duration** 11/2009 – 4/2014  
**Total budget** EUR 2,108,859 (EU Contribution: 80%)

ENHANCING ENVIRONMENTAL PERFORMANCE IN  
KEY SRI LANKAN EXPORT SECTORS

## THE CHALLENGE

Poor environmental performance amongst enterprises in key Sri Lankan export sectors hamper business across the value chain. Entrepreneurs lack awareness, technical know-how and cost effective solutions for sustainable production patterns. The poor environmental performance is due to the lack of environmental performance data and weak enforcement of environmental laws.



## THE OBJECTIVES

The project aims to reduce the negative environmental impact of major polluting export sectors in Sri Lanka across the industry value chains through the introduction of sustainable production practices and technologies.

## RESULTS ACHIEVED

- Framework for data gathering of industry data developed;
- Awareness creation of sustainable production amongst industry staff across Sri Lanka;
- 250 enterprises involved in project through completion of baseline survey;
- Mapping of value chains and bench-mark studies concluded;
- Draft sector wide analysis of ceramics sector completed;
- Training for company staff as part of a sustainable action plan for each enterprise;
- Action plans for target sectors progressed;
- Awareness of project amongst waste management companies, commitment from waste management companies towards waste management network.



**Duration** 3/2009 – 9/2011  
**Total budget** EUR 1,588,538 (EU Contribution: 80%)

## LEAD PARTNER

Industrial Technology Institute (ITI),  
Sri Lanka

## PARTNERS

The Ceylon Chamber of Commerce,  
Sri Lanka  
IVL Swedish Environmental Research  
Institute Ltd, Sweden  
Megaskills Research Company Ltd, UK  
Fraunhofer Institute IFF, Germany

## CONTACT DETAILS

Dr. A. Mubarak  
+94-11-2697995  
dir\_ceo@iti.lk  
P.O. Box 787,  
Colombo  
Sri Lanka

## EuropeAid

SUSTAINABLE PRODUCTION IN THE FOOD AND  
BEVERAGE INDUSTRY IN SRI LANKA

## THE CHALLENGE

The food and beverage (F&B) industry is an important sector of the Sri Lankan economy. However, F&B producers, in particular the SMEs, are experiencing increasing difficulties in maintaining their market shares due to the increasing costs of production, largely resulting from the extensive use of materials, energy and water. Reasons for the inefficient and unsustainable production practices include poor awareness of the issues on the part of SMEs and a lack of necessary expertise and resources to address them.

## LEAD PARTNER

Ceylon Chamber of Commerce,  
Sri Lanka

## PARTNERS

- IVAM UvA BV, *Netherlands*
- Confederation of Indian Industry,  
*India*
- Industrial Technology Institute,  
*Sri Lanka*
- Industrial Services Bureau,  
*Sri Lanka*
- Industrial Development Board,  
*Sri Lanka*

## CONTACT DETAILS

Mr. S.M. Sathicama  
+94-11-5588897  
smsathi@cccsolutions.org  
48 Nawam Mawatha  
Colombo 02  
Sri Lanka

## THE OBJECTIVES

The project aims to improve the environmental performance of the Food and Beverage industry in Sri Lanka through promotion of best practices of sustainable production among SMEs.

## RESULTS ACHIEVED

- Increased revenues and profits as pollution preventive measures save money, and adoption of new and advanced methodologies enhances revenue by winning more businesses;
- Reduction of 4.05% in material consumption by reducing waste (average from companies);
- Reduction of 20.23% in energy consumption (average from companies) and of 15.51% in water consumption (average from companies);
- 22 SMEs already certified for ISO 22000:2005 Standard by various certification bodies;
- 53 SMEs completed the documentation phase in full and are in the process of moving ahead to obtain the ISO 22000:2005 certificate;
- 519 SMEs trained to adopt best practices of SCP, 191 SMEs trained to comply with international food safety standards;
- A study on SCP policies in Sri Lanka presented and discussed with government departments/authorities and the relevant ministries to identify new policy instruments on SCP for implementation;
- Compilation of the policy document with 8 policy instruments was handed over to the Minister of Environment.



**Duration** 1/2009 – 12/2012

**Total budget** EUR 1,981,917 (EU Contribution: 80%)

## GREENING SRI LANKAN HOTELS

## THE CHALLENGE

In Sri Lanka, the hospitality sector ranks as one of the most energy intensive sectors and has a high-energy cost. Similarly, the use of water and other natural resources, and the generation of waste, are all high. Becoming resource-efficient, while meeting the diverse requirements of customers, is a challenging task for hotels, resorts and tour operators.

## THE OBJECTIVES

The project aims to enhance the environmental performance of Sri Lankan hotels and to increase their market acceptance by promoting them as low carbon footprint green hotels by improving energy, water and waste management systems and reducing operation costs.



## RESULTS ACHIEVED

- The project has been promoted among target groups, stakeholders and selected SMEs.
- Baseline surveys and baseline setting;
- Advisory services, support and training for hotels in natural resource management and implementation of resource efficiency measures were delivered.
- Resource Management Circles, monitoring the progress and dissemination of success stories were set up.
- Suppliers of hotels and customers have been engaged to improve the enabling environment.
- Recognition awards, a local sustainable tourism forum and participation in international sustainable tourism forums has been organised.
- The greening of Sri Lanka hotels has been promoted in international markets.



**Duration** 11/2009 – 11/2013

**Total budget** EUR 1,829,828 (EU Contribution: 80%)

## LEAD PARTNER

The Ceylon Chamber of Commerce,  
Sri Lanka

## PARTNERS

- The Travel Foundation, *UK*
- Responsible Tourism Partnership,  
*Sri Lanka*
- Sustainable Energy Authority of  
*Sri Lanka*
- Institute of Environmental  
Professionals of Sri Lanka

## CONTACT DETAILS

Ms. Aruni Heenkenda  
+94-11-5588701  
arunih@cccsolutions.org  
No. 48 Nawam Mawatha  
Colombo – 02  
Sri Lanka



## EuropeAid

HELPING VIETNAMESE SMES ADAPT AND ADOPT CORPORATE  
SOCIAL RESPONSIBILITY FOR IMPROVED LINKAGES WITH  
GLOBAL SUPPLY CHAINS IN SUSTAINABLE PRODUCTION

## THE CHALLENGE

Major buyers of Vietnamese products, including transnational corporations (TNC), are tightening their procurement guidelines to comply with Corporate Social Responsibility (CSR) requirements in the fields of environment and labour. Although this will improve labour practices and environmental impact, it can be a serious constraint for many Vietnamese enterprises. Over 90 % of the enterprises are small and medium sized enterprises (SMEs) and they do not have sufficient capacity to comply with the strict requirements.

## LEAD PARTNER

United Nations Industrial Development  
Organization (UNIDO), *Austria*

## PARTNERS

- Vietnam Chamber of Commerce (VCCI)
- European Chamber of Commerce in Vietnam (EuroCham)
- Vietnam Leather and Footwear Association (LEFASO)
- Vietnam Textile and Apparel Association (VITAS)
- Vietnam Electronics Industry Association (VEIA)
- Institute of Labour Science and Social Affairs (ILSSA), *Vietnam*
- Directorate for Standards and Quality (STAMEQ), *Vietnam*
- National Metal and Materials Technology Centre (MTEC), *Thailand*
- sequa gGmbH, *Germany*

## CONTACT DETAILS

Mr. Florian Beranek  
+84-127-81-67-639  
f.beranek@unido.org  
52 Yet Kieu Lane,  
HoanKiem District,  
Hanoi  
*Vietnam*

[www.csr-vietnam.eu](http://www.csr-vietnam.eu)

## THE OBJECTIVES

The project aims to improve the environmental and social performance of Vietnamese SMEs and to enhance their international competitiveness through better understanding of corporate social and environmental standards and strengthened cooperation between Europe and Asia.



## RESULTS ACHIEVED

- From initially 65 candidates finally 17 national CSR Experts concluded the 18 months education program on UNIDO reap26 successfully and are now forming the CSR Experts Group Vietnam.
- Based on 22 Multi-Stakeholder Discussion Fora the awareness of the multidimensional nature of CSR (ISO26000) was improved significantly.
- More than 80 companies participated in in-depth CSR training workshops are now using the UNIDO reap26 methodology.
- The Ministry of Science and Technology has initiated the process of the official national recognition of ISO26000.
- The criteria and the procedures of the 2012 National Vietnamese CSR Award were redesigned – now including the core subjects of ISO26000.
- More than 150 events were held – contacting over 6.000 people directly.



**Duration** 2/2009 – 4/2013

**Total budget** EUR 2,014,334 (EU Contribution: 80 %)

## MAINSTREAMING ENERGY EFFICIENCY THROUGH BUSINESS INNOVATION SUPPORT VIETNAM

## THE CHALLENGE

Many small and medium-sized enterprises (SMEs) in Vietnam work with outdated and inefficient technology. As energy and water prices escalate, this inefficiency renders high cost to business, and to the environment. Efficient and cost-saving technologies that enhance energy and water efficiency of SMEs exist, but technology suppliers lack knowledge of efficient technologies and capacity to adequately translate technical solutions into business-smart, cost-saving products for SMEs. SMEs are often not aware of the benefits of investing in cleaner technology and SMEs lack the capital, or access to finance, to invest in cleaner technology.

## THE OBJECTIVES

The MEET-BIS promotes sustainable production of urban-based SMEs in Vietnam by providing access to affordable clean energy and water and energy efficiency products through scalable, commercially viable business innovation packages.

## RESULTS ACHIEVED

- Formal cooperation is established with 11 local technology suppliers. By July 2013, 9 of those suppliers successfully generated sales.
- Some 70 Technology suppliers participated in events or activities of MEET-BIS. A database of approximately 278 local suppliers of energy and water saving products has been created.
- Market research is done on the SME challenges and bottlenecks.
- Research is performed on access to finance for SMEs and potential solutions.
- A toolkit of sales & marketing practices and support packages with tested Vietnamese illustrations is made.
- Energy and water saving technologies have been promoted among 3,852 SMEs. 1364 SMEs showed their interest in EE/WS products & services. 423 SMEs of these SMEs have invested in the technologies.
- Total value of energy and water saving products sold since 2011 is EUR 2.43 million (VND 65.66 billion).
- The reduction of CO<sub>2</sub> emission is an estimate of 9,842,559 kg-CO<sub>2</sub>e between the first sales in January 2011 and end of June 2013.
- The present investments in energy and water saving products & services will contribute to mitigating climate change with an estimated annual emission reduction of 9,788,636 kgCO<sub>2</sub>e.



**Duration** 4/2009 – 9/2013

**Total budget** EUR 1,943,419 (EU Contribution: 80 %)

## LEAD PARTNER

ETC Foundation, *Netherlands*

## PARTNERS

- Research Centre for Energy and Environment (RCEE), *Vietnam*
- VCCI-Ha Minh IBCI, *Vietnam*
- AdaPPPT Foundation, *Netherlands*
- AidEnvironment, *Netherlands*

## CONTACT DETAILS

Mr. Remco van Stappershoef  
+84-14-6270-2347  
r.van.stappershoef@etcnl.nl  
No. 52, Yet Kieu Lane,  
Hanoi  
*Vietnam*

[www.meet-bis.vn](http://www.meet-bis.vn)

## EuropeAid

### JUTE: AN ECO-FRIENDLY ALTERNATIVE FOR A SUSTAINABLE FUTURE

#### THE CHALLENGE

Jute is vital to the economies of India and Bangladesh. It is biodegradable and absorbs CO<sub>2</sub> and releases O<sub>2</sub> and N<sub>2</sub>. However, during jute cultivation, jute plants are soaked in the water for several days (the process is called retting) for separating the fibres. This so called retting destroys the quality of water and affects the fish cultivation. Also, during production of Jute Diversified Products (JDPs), sometimes dyes and chemicals are used. Addressing these challenges and encouraging production and consumption of eco-friendly JDPs will help the Jute industry in Bangladesh and India to grow, alleviate poverty and to ensure environmental sustainability.

#### THE OBJECTIVES

The project promotes economic prosperity and reduces poverty in Bangladesh and India by encouraging a switch to more environmentally sustainable practices in the jute industry. It promotes the sustainable production and consumption of eco-friendly Jute Diversified Products (JDPs) in Bangladesh and West-Bengal, India.

The project is working on both the supply side and the demand side by increasing awareness of sustainable production and consumption practices, improving business capacity to produce more market-driven products, and raising awareness of consumers.

#### RESULTS ACHIEVED

- The Mapping exercises in both countries are complete.
- Two Business Facilitation Units are established.
- 43 in Bangladesh and 28 SMEs in India are provided design supports and New Range of JDPs are developed for domestic and EU market.
- A three-day Jute Lifestyle Expo was organised and a consumer campaign ran centering the Expo.
- The Expo was covered in nineteen dailies and BFU received orders for 1200 products.
- BFU linked 19 SMEs with 45 buyers in Bangladesh and 12 SMEs with 15 buyers in India.

#### LEAD PARTNER

Traidcraft Exchange, UK

#### PARTNERS

- Training, Assistance and Rural Advancement Non-Government Organisation (TARANGO), Bangladesh
- Margdarshak Development Services, India

#### ASSOCIATES

Jute Diversification Promotion Centre (JDPC), Bangladesh

#### CONTACT DETAILS

Mr. Kazi Shahed H. Ferdous  
+880-171-303-3447  
shahedf@traidcraft.org  
House 11, Road 13 (New) Dhanmondi,  
1209 Dhaka  
Bangladesh

[www.jdpbfu.com.bd](http://www.jdpbfu.com.bd)



Duration 3/2010 – 2/2014

Total budget EUR 920,569 (EU Contribution: 80%)

### ESTABLISHMENT OF THE ASEAN ENERGY MANAGER ACCREDITATION SCHEME

#### THE CHALLENGE

To actually incorporate energy efficiency in the management policy of a company, the energy management role must be assigned to a senior manager who has access to the board. The senior manager must also be trained for the effective integration of energy management systems in their companies. This is the concept of the “energy manager” function. The energy manager must be a senior manager, who will have a technical team to design and implement energy management measures in the context of a sustainable energy management system that must be incorporated in the company’s corporate policy.

#### THE OBJECTIVES

The project aims to increase the energy efficiency of industries in the Association of South East Asian Nations (ASEAN) through the establishment of the ASEAN Energy Manager Accreditation Scheme (AEMAS). Further objectives are to train and certify energy managers and provide certification on a large scale for energy end-users.

#### RESULTS ACHIEVED

- Through project implementation, Php 1.6 million/year (EUR 26,033/year) has been saved.
- An increase of profit returned to capex for more energy efficient equipment;
- New green product has been introduced to market that is inverter air conditioner using ozone-friendly refrigerant (R410A).
- CO<sub>2</sub> reduction from initially 147 tons to 62 tons upon project completion;
- Reduction of 186,000 KWh (3%) energy use;
- Establishment of 6 national councils (Country Chapters);
- Contribution to content of Energy Efficiency & Conservation Laws (amendment to existing rules and regulations).



Duration 2/2010 – 1/2014

Total budget EUR 2,152,056.76 (EU Contribution: 80%)

#### LEAD PARTNER

ASEAN Centre for Energy, Indonesia

#### PARTNERS

- Action Sustainable Development (ASD), France
- International Copper Association Southeast Asia (ICASEA), Thailand
- Green Technology Corporation, Malaysia
- Myanmar Engineering Society (MES), Myanmar
- Energy Efficiency Practitioners Association of the Philippines (ENPAP), Philippines
- Pelangi, Indonesia
- Research Center for Energy and Environment (RCEE), Vietnam

#### ASSOCIATES

- Energy Department Prime Minister’s Office, Brunei Darussalam
- Ministry of Industry Mines and Energy, Cambodia
- Ministry of Energy and Mineral Resources, Indonesia
- Ministry of Energy and Mines, Laos
- Ministry of Energy, Myanmar
- Department of Energy, Philippines
- Energy Market Authority, Singapore
- Department of Alternative Energy Development and Efficiency (DEDE), Thailand
- Ministry of Trade and Industry, Vietnam
- UN Environment Programme (UNEP)

#### CONTACT DETAILS

Mr. Oscarlito C. Malvar  
+62-215-279-332, ocmalvar@aseanenergy.org  
Jl. HR Rasuna Said, Blok X-2 Kav 7-8,  
Kuningan Jakarta, Indonesia

[www.aemas.org](http://www.aemas.org)

## EuropeAid

SUSTAINABLE PRODUCTION INNOVATION  
IN VIETNAM, CAMBODIA AND LAOS

## THE CHALLENGE

In Vietnam, Laos and Cambodia, current growth has significant environmental and social impacts. Competitiveness and the added value of products of are still relative low in the region. Sustainable product innovation (SPIN) is an essential element in the development towards a greener economy as products are the core business of enterprises. Innovation for sustainable product designs is the key to create new business activities.

## LEAD PARTNER

Delft University of Technology,  
Netherlands

## PARTNERS

- Vietnam Cleaner Production Centre, Vietnam
- Asian Institute of Technology Center, Vietnam
- Lao National Chamber of Commerce and Industry, Laos
- Cambodian Cleaner Production Programme, Cambodia
- United Nations Environment Programme, France

## CONTACT DETAILS

Mrs. Linda Roos  
+31-152782273  
l.roos@tudelft.nl  
Mekelweg 2, 2628 CD Delft  
Netherlands

[www.spin-asia.org](http://www.spin-asia.org)

## THE OBJECTIVES

The project aims to improve innovative power of industry, and improve environmental and societal quality of products made in Vietnam, Cambodia and Laos by implementing sustainable product innovation (SPIN) on a significant scale in these three countries.



## RESULTS ACHIEVED

- SPIN toolkit development, connected studies in marketing and policies facilitation;
- Train-the-trainer workshops and training for more radical sustainable product innovation;
- Three cycles of SPI implementation: 100-150-250 companies, cycles 1 and 2 with trainers, multiplier cycle 3 do-it-yourself, with support and SPI circles;
- Project branding, marketing skill trainings for SMEs, marketing access via fairs, product catalogues, promotion of sustainable public policy & procurement with government organisations;
- Setting up SPI Networks, national conferences, web movies and publicity and reports.



Duration 4/2010 – 9/2014

Total budget EUR 2,854,782.14 (EU Contribution: 80 %)

ESTABLISHING A SUSTAINABLE PRODUCTION SYSTEM FOR RATTAN  
PRODUCTS IN CAMBODIA, LAOS, VIETNAM

## THE CHALLENGE

The harvesting and pre-processing of rattan in Laos, Cambodia and Vietnam was unsustainable and wasteful. The processing industry was over-exploiting the rattan sources, had little environmental awareness, and was responsible for health risks to its workers. The rattan industry faced poor competitiveness on the global market. However, villagers have been heavily relying on this resource for their income.

## THE OBJECTIVES

This project aimed to establish a sustainable rattan industry by introducing Cleaner Production, credible Chain-of-Custody certification and by establishing links to European and other international markets, thereby delivering a measurable improvement of the sector's environmental performance.

## RESULTS ACHIEVED

- Systematic involvement and training of all actors along the rattan supply chain, from village producer groups to buyers;
- 12 contracts with international retailers were signed and 46 are being drawn up;
- 22,000 villagers increased their income by 5-45 %;
- World-wide first FSC certified rattan and 19,000 ha under responsible forest management;
- 220 SMEs were introduced to cleaner production;
- Policies reviewed and piloted to support community based rattan processing and to promote a green rattan industry;
- 38 SMEs started to switch their production system in consideration of environmental and social standards;
- 5,774 households (rattan pre-processors) improved rattan production skills;
- WFTO membership for Rattan Association of Cambodia.



Duration 1/2009 – 12/2011

Total budget EUR 2,417,694 (EU Contribution: 80 %)

## LEAD PARTNER

WWF Austria, Austria

## PARTNERS

- Vietnam Cleaner Production Center (VNCPC), Vietnam
- Artisans' Association of Cambodia (AAC), Cambodia
- Lao National Chamber of Commerce and Industry (LNCCI), Laos

## CONTACT DETAILS

Ms. Sabine Gisch-Boie  
+43-1-488-17-0  
Sabine.Gisch-Boie@wwf.at

Thibault Ledecq  
+85-6-2121-60-80  
thibault.ledecq@wwfgreatermekong.org  
Ottakringer Straße 114-116,  
1160 Vienna  
Austria

[www.panda.org/rattan](http://www.panda.org/rattan)

## EuropeAid

SUSTAINABLE AND RESPONSIBLE TRADE PROMOTED TO WOOD PROCESSING SMES  
THROUGH FOREST AND TRADE NETWORKS IN CHINA, INDIA AND VIETNAM

## THE CHALLENGE

Due to unprecedented economic growth and development in India, China and Vietnam, increased demand for natural resources is placing pressure on forests. Small and medium sized enterprises (SMEs) often buy wood that has been produced unsustainably, possibly illegally, and so stimulating the demand for unsustainable and illegal wood. To exacerbate this, related forest degradation in Asia results in increased flooding, mudslides and wildfires as a result of forest loss.



## THE OBJECTIVES

The project seeks to engage at least 600 SME wood processors in the target countries and for them to apply sustainable production techniques and provide certified forest products to domestic and international markets by 2012.

## RESULTS ACHIEVED

- This project built capacity SME of wood processors to enable responsible sourcing and production of forest products.
- It linked these SMEs with buyers and forest managers that are parts of the Global Forest and Trade Network.
- The project assisted companies throughout the supply chain to utilise products sourced from responsibly managed forests, maximise their access to the market, and trade on their responsible business credentials.
- Throughout the project, 45 SMEs have joined the GFTN and more smaller SMEs have started the GFTN application process. Over 600 smaller SMEs gained awareness of SCP.



Duration 1/2009 – 1/2013

Total budget EUR 2,152,056 (EU Contribution: 80%)

## ENCOURAGING AND IMPLEMENTING SUSTAINABLE PRODUCTION AND CONSUMPTION OF ECO-FRIENDLY BATIK IN INDONESIA AND MALAYSIA

## THE CHALLENGE

Batik small and medium-sized enterprises (SMEs) operate with excessive use of water, wax, chemical dyes and bleaching agents that are harmful to the workers and the environment. Carcinogenic wastes generated from batik production are generally left untreated and often pollute rivers and waterways which is detrimental to the health and livelihoods of thousands of local residents. Low health and safety awareness also leave the workers exposed to hazardous substances on a daily basis. There is no demand-led stimulus for the batik SMEs to switch to a cleaner method of production due to low environmental awareness of the batik consumers.

## THE OBJECTIVES

The project aims to improve the environmental performance of the batik industry in Indonesia and Malaysia and to create demand for eco-friendly batik products. This will, in turn, provide incentives for cleaner production efforts among SMEs.

## RESULTS ACHIEVED

- Training of trainers for local business support organisations on environmental oriented cost management, good house-keeping, chemical management, water/energy efficiency, and marketing of eco-friendly batik;
- Clean production workshop, implementation and in-field technical assistance and evaluation for batik SME owners and key staff;
- Media liaisons, press conferences, e-news, and awareness campaign events targeting different consumer groups;
- Business matchmaking, online marketing, and domestic and international trade fairs support for selected batik SMEs;
- Policy dialogues with local, regional, and national government authorities, followed with lobby group activities.



Duration 12/2009 – 12/2013

Total budget EUR 2,316,792 (EU Contribution: 80%)

## LEAD PARTNER

WWF UK

## PARTNERS

- WWF China
- WWF India
- WWF Vietnam
- Vietnam Timber and Forest Product Association (VIFORES), Vietnam

## CONTACT DETAILS

Ms. Julia Young  
+44-1483-412535  
JYoung@wwf.org.uk  
Panda House, Weyside Park,  
Godalming, Surrey GU7 1XR, UK

## LEAD PARTNER

Indonesian-German Chamber of  
Commerce and Industry (EKONID),  
Indonesia

## PARTNERS

- Malaysian-German Chamber of  
Commerce and Industry, Malaysia
- IHK-Akademie, Germany

## ASSOCIATE

Indonesian Cleaner Production  
Centre (ICPC), Indonesia

## CONTACT DETAILS

Mr. Martin Krummeck  
+62-21-315-4685  
martin.krummeck@ekonid.or.id  
Jl. H. Agus Salim 115  
Jakarta 10310  
Indonesia

[www.cleanbatik.com](http://www.cleanbatik.com)



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## **EUROPEAN COMMISSION**

Directorate-General for Development and Cooperation – EuropeAid  
Geographical Coordination Central Asia, Middle East/Gulf,  
Asia Regional Programmes

European Commission, Development and Cooperation - EuropeAid  
B - 1049 Brussels, Belgium, Rue Joseph II 54, 1000 Brussels, Belgium

[europeaid-switch-Asia@ec.europa.eu](mailto:europeaid-switch-Asia@ec.europa.eu)

## **DELEGATIONS OF THE EUROPEAN UNION IN ASIA**

Contact the relevant country delegation  
[http://eeas.europa.eu/delegations/web\\_en.htm](http://eeas.europa.eu/delegations/web_en.htm)

SWITCH-Asia Network Facility  
[network.facility@scp-centre.org](mailto:network.facility@scp-centre.org)

SWITCH-Asia Policy Support Component (regional part)  
[switch.psc@unep.org](mailto:switch.psc@unep.org)



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