switchasia PROGRAMME

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FACT SHEET BROCHURE
SWITCH-ASIA PROGRAMME

95 PROJECTS AT A GLANCE

This programme is funded 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*

http://ec.europa.eu/europeaid/regions/asia-o_en

Design: Katharina Olma

For more information on the programme also visit: *www.switch-asia.eu*

Asia is the world's largest manufacturing region and has an estimated thirty million small and medium-sized enterprises (SMEs) making up about 80% of its industry. The European Union's SWITCH-Asia Programme helps these companies to adopt cleaner technologies and practices through project grants, national and regional policy support components, and a dedicated network facility. By supporting the sharing of knowledge and developing local capacity for scaling up responsible business practices, SWITCH-Asia is also a means by which SMEs in Asia can more easily access the supply chains of multinational companies that seek to establish green and fair conducts within their value chains.

Following the Paris Climate Conference in December 2015 (COP21), the international community has committed to reducing global emissions and to supporting climate action and resilience-building across the world. To succeed, SMEs will play a crucial role. Not only will their switch to sustainable patterns of production benefit the environment, but by taking up modern and environmentally friendly practices they will also contribute to preserving health and livelihoods in local communities. In this way, SMEs become contributors to the international development agenda and can help countries meet the new Sustainable Development Goals (SDGs). Moreover, by saving resources they often also reduce production costs.

As part of the EU's priority of supporting sustainable consumption and production (SCP) in its regional cooperation strategy for Asia, the SWITCH-Asia Programme was launched in 2007 Through this initiative, the EU has being supporting about 100 projects with an average grant size of EUR 1.7 million in 18 countries across a wide range of sectors. This has created green jobs, promoted sustainable growth with low environmental impact, and helped reduce poverty. The SWITCH-Asia Programme will continue to engage with a wide range of stakeholders across the value chains in Asia to build on past successes and to ensure future sustained improvements in sustainable consumption and production patterns.

This brochure provides an overview of the different components that constitute the SWITCH-Asia Programme and the various projects funded by its grants. I hope that it will help readers familiarise themselves with the Programme and stimulate more applications in 2016 and beyond.

Pierre Amilhat

Director for Asia, Central Asia, Middle East/Gulf and Pacific
Directorate-General for International Cooperation and Development European Commission

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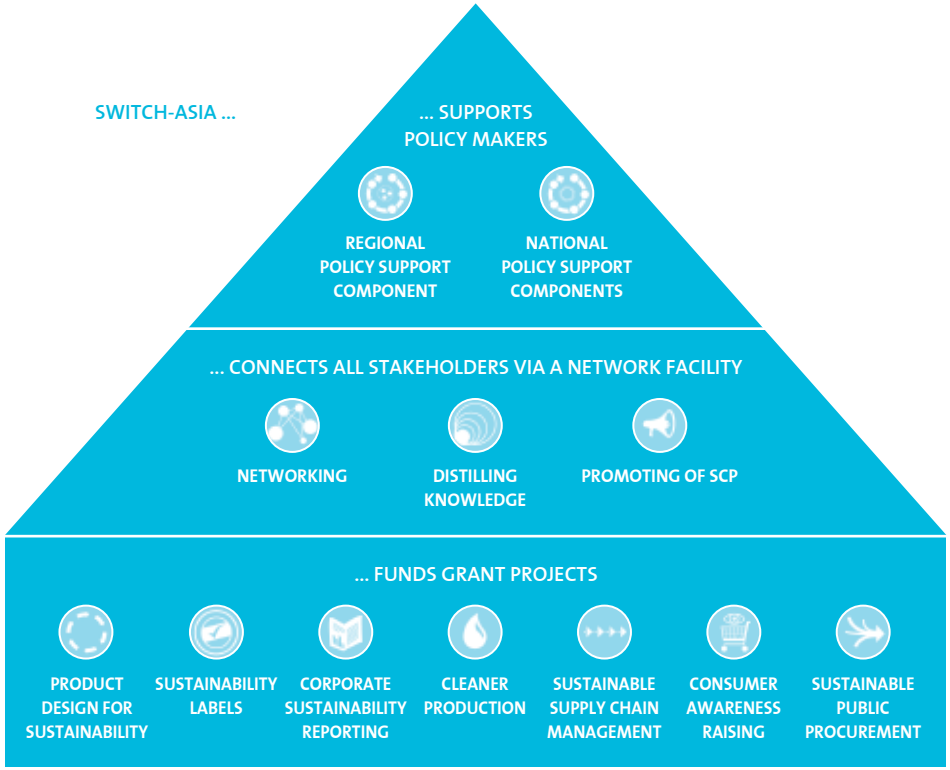
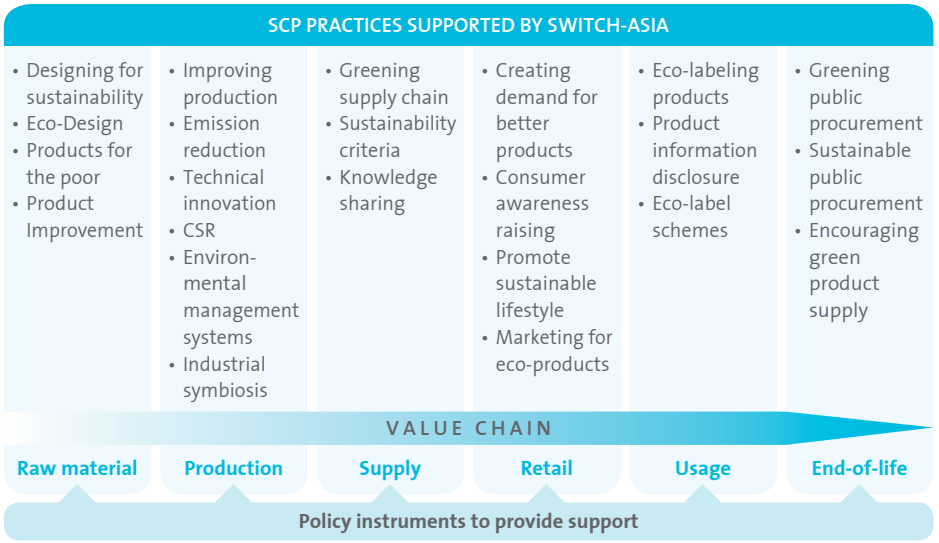
The European Union's SWITCH-Asia Programme aims to contribute to economic prosperity and poverty reduction in Asia by promoting sustainable consumption and production (SCP). Since 2007, the Programme has been supporting the promotion of SCP in Asian developing countries through more than 100 projects, comprising 95 grant projects, a network facility (NF), one regional policy support component and five national policy support components (PSCs) in Indonesia, Philippines, Thailand, Malaysia and Sri Lanka with an overall funding of more than EUR 300 million for 2007-2020.

Sustainable consumption and production 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).

As established in the recently adopted 2030 Agenda for Sustainable Development and its 17 Sustainable Development Goals (SDGs), including SDG 12 on "Ensuring Sustainable Consumption and Production Patterns", SCP is now foremost recognised as a universal opportunity. Within the 2030 Agenda for Sustainable Development adopted by the international community, SDG 12 on SCP has been proven to be connected to at least 14 other SDGs, providing critical connections among them and making the SDGs more tightly linked as a network.





The SWITCH-Asia Programme focuses on the environmental performance of small and medium-sized enterprises (SMEs), which form the backbone of the economy of Asian countries. As these SMEs embrace more environment-friendly and sustainable practices, more green products are available on the market, workers enjoy healthier working conditions and SMEs benefit from more cost effective production brought by increased resource efficiency.

SWITCH-Asia also reaches out to Asian consumers, as they have enormous potential to drive the "switch" to sustainable consumption through their guided purchasing choices. In addition, governments and financial institutions are key actors in promoting sustainable consumption and production. The SWITCH-Asia Programme seeks to engage them particularly via the policy support components.

There are three strategic and intertwined components in the SWITCH-Asia Programme to secure significant impact: **Grant projects**, a **Network Facility** and **Policy Support Components**.

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

In the first phase of the SWITCH-Asia Programme (2007-2013), a vast array of good practice regarding sustainable production and consumption has been developed and demonstrated. The second phase of the Programme (2014-2020) aims to scale up the achievements of the first phase and move further by researching

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publishing and informing about regionally available green finance opportunities. New projects to be selected are encouraged to make use of mechanisms to scale-up the demonstrated good practice. 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 environments for SCP and linking SMEs to financial institutions are all equally important.

As a regional Programme, SWITCH-Asia aims to distil and disseminate and scale up successful approaches to SCP practice. The SWITCH-Asia Network Facility, established in 2008, documents 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 (multimedia, publications, website, events), thus maximising the impact of individual projects.

The national and regional SWITCH-Asia policy support components (PSCs) target national and regional policy frameworks and their potential to encourage the uptake of SCP practice. The regional PSC implemented by UNEP works with authorities in eight target countries[1] to initiate the formulation or the strengthening of policies for mainstreaming SCP, and supports them in the design and implementation of policy-oriented activities. At the national level, the EU Delegations in Indonesia, Malaysia, the Philippines, Sri Lanka, and Thailand manage country-specific programmes designed 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 advancing SCP in 19 eligible Asian countries: Afghanistan, Bangladesh, Bhutan, Cambodia, China, DPR Korea, India, Indonesia, Lao PDR, Malaysia, Maldives, Mongolia, Myanmar, Nepal, Pakistan, Philippines, Sri Lanka, Thailand and Vietnam.

Since 2008, the EU has published six Calls for Proposals. By 2016, 95 grant projects have been co-funded. Selected projects have worked on various topics, among which cleaner production and sustainable product design prevail. A wide array of sectors have already been tackled by SWITCH-Asia projects from textiles, electronics, utilities, food and beverages, and tourism to transport. The priority target group is SMEs, which means they are putting emphasis on upstream 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 co-funded projects also target governments and consumers.

The Programme, including the co-funded projects and the PSCs, is currently being implemented in 18 of the eligible Asian countries.

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

[1]Cambodia, China, India, Lao PDR, Nepal, Myanmar, Pakistan and Vietnam

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WWW.SWITCH-ASIA.EU

- EU SWITCH-Asia Programme
- @NetworkFacility
- SWITCH-Asia group
- SWITCH Asia channel
- network.facility@scp-centre.org

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SWITCH-ASIA COMPONENTS

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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 being 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

GFA Consulting Group

cscp

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

Funded by the European Union

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.

IMPLEMENTING BODY

UNEP

CONTACT DETAILS

Mr. Sabin Basnyat
UNEP Regional Coordinator
+66-02-288-1490
switch.psc@unep.org

U.N. Building 2 floor,
Rajdamnern Nok Avenue
Bangkok 10200
Thailand

www.switch-asia.eu/rpsc

UNEP

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

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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 was to strengthen the development and implementation of national policies on Sustainable Consumption and Production (SCP) in Indonesia.

THE WAY FORWARD

The project promoted an 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 included 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

CONSORTIUM PARTNERS

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

CONTACT DETAILS

Mr. Edzard Ruehe
Team Leader
+62-21-85904928
edzard.ruehe@amcconsult.com

Ministry of Environment,
Jalan D.I. Panjaitan Kav. 24, Kebon Nanas, Jakarta Timur 13410
Indonesia

www.switch-asia.eu/policy-support-components/psc-indonesia

Duration *2/2012 – 1/2015*
Total budget *EUR 2,000,000 from the Delegation of the European Union to Indonesia*

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

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

Funded by the European Union

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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

CONSORTIUM PARTNERS

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

CONTACT DETAILS

Dr. Channa Gunawardena
Team Leader
+632-479-2900, Ext. 226
channag@live.com

Department of Energy, Energy Center,
Rizal Drive, Bonifacio Global City,
Taguig City
1632
Philippines

www.switch-asia.eu/policy-support-components/psc-philippines

Duration *7/2012 – 12/2016*
Total budget *EUR 3,500,000*

Funded by the European Union

THE CHALLENGE

The present ambitious development drives of Sri Lanka are rapidly encroaching on the traditional Sri Lankan lifestyles in both urban and rural areas. While urbanisation is spreading along with unsustainable SCP patterns, the aspirations of the market based economic system are changing the consuming and producing behaviour of all citizens.

Sri Lanka is the fifth country in the Asian region and the very first country in the South Asian sub-region receiving national policy support assistance under the SWITCH-Asia Policy Support Component initiatives which were initiated in 2010.

THE OBJECTIVES

The overall objective is to support the Sri Lankan Government in selecting, adapting and implementing suitable economic and regulatory policy instruments to promote SCP, thereby enhancing the long-term sustainability of consumption and production patterns.

The specific objective is to strengthen the policy and institutional framework ensuring a joint and effective Sustainable Consumption and Production effort in Sri Lanka.

THE WAY FORWARD

- Developing a National Overarching SCP Policy, a national SCP monitoring system, including SCP indicators;
- Establishing Sustainable Production Framework and SCP principles for selected sector(s);
- Establishing Sustainable Consumption Framework, Green Procurement Policy & Eco-labelling;
- SCP Knowledge awareness raising & knowledge development.

NATIONAL COUNTERPART

Ministry of Mahaweli Development and Environment

CONSORTIUM PARTNERS

- Application Européenne de Technologies et de Services (AETS), *France*
- Industrial Services Bureau, *Sri Lanka*
- Global Sustainability Solutions, *Sri Lanka*
- Bio Deloitte , *France*
- Regional Environmental Centre, *Hungary*
- UN ESCAP, *Thailand*

CONTACT DETAILS

Mr. M. W. Leelaratne
Team Leader
+94-76-526-3962
manikku.leelaratne@aets-consultants.com

Eng. Gamini Senanayake
Key Expert
+94-77-780-4545
gaminisn@gmail.com

Environment Planning and Economics,
Ministry of Mahaweli Development &
Environment
980/4, Wickremasinghe Place
Ethul Kotte
Sri Lanka

www.switch-asia.eu/policy-support-components/psc-sri-lanka

Duration *1/2015 – 1/2019*
Total budget *EUR 1,867,500 (EU contribution: 100%)*

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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 was 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 organisations dealing with SCP in Thailand, the project had:

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

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ONGOING PROJECTS

2016-2020

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SCALING UP GREEN HOMES IN KABUL, TOWARDS SUSTAINABLE ENERGY CONSUMPTION AND LOW EMISSION DEVELOPMENT

THE CHALLENGE

Afghanistan is the 15th most vulnerable country in terms of climate change vulnerability (German Watch Global Climate Risk). Afghanistan experiences cold and snowy winters with extreme temperature variations between night to day, reaching -20°C in winter in Kabul. However, much of the country is characterised by 300 days of sunshine yearly, meaning energy efficient houses that reduce heat losses in winter and improve sun gain are well adapted to the Afghan climate. Despite this high solar energy potential, Afghans rely on traditional solid fuels (firewood, animal dung cakes, crop residues and charcoal for cooking and heating).

THE OBJECTIVES

The project aims to contribute to the Afghanistan National Development Strategy's main pillars, particularly on poverty reduction through a private-sector, market-led approach. The project seeks to tackle the lack of access to finance for green consumption, to strengthen the emerging Energy Saving Solutions (ESS) value chain and engage networks of stakeholders.

THE WAY FORWARD

- Building the capacity of institutions to monitor the effect of energy efficiency on fuel consumption and on climate, to identify the potential impacts of energy efficiency regulations and practical applications for buildings;
- Promoting new markets for innovations and changes of lifestyle;
- Supporting the integration of new strategies for upgrading unplanned settlements;
- Improving the living conditions of the households investing in ESS;
- Providing access to home improvement loans to offer a sustainable financing solution for ESS whilst meeting large scale demand;
- Strengthening dialogue with institutions to contribute to a favorable environment for scaling up new SCP pattern and replicating in similar context.

LEAD PARTNER

Group for Environment, Renewable Energy and Solidarity (GERES), *France*

PARTNERS

- Afghanistan Microfinance Association (AMA)
- Rural Movement Organisation (RMO), *Afghanistan*

CONTACT DETAILS

Mrs. Laurence Tommasino
+33-442-18-31-83
l.tommasino@geres.eu
2 Cours Foch - 13400 Aubagne
France

Duration *1/2016 – 6/2019*
Total budget *EUR 2,007,990 (EU contribution: 90%)*

GROUP FOR ENVIRONMENT, RENEWABLE ENERGY AND SOLIDARITY (GERES)

As lead partner, GERES is responsible for the overall project management and implementation.

Mrs. Laurence Tommasino
l.tommasino@geres.eu

AFGHANISTAN MICROFINANCE ASSOCIATION (AMA)

AMA facilitates the access to home improvement loans to offer a sustainable financing solution for energy saving solutions (ESS).

Mr. Najibullah Samim
najibsamim@ama.org.af

RURAL MOVEMENT ORGANISATION (RMO)

RMO provides vocational trainings for SMEs in artisan sector and support of emerging associations.

Mr. Mohammad Rafiq Sharifi
g.dir@rmo.org.af

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PROMOTING SUSTAINABLE BUILDING IN BANGLADESH

THE CHALLENGE

In Bangladesh, brick-making is the largest source of greenhouse gas (GHG) emissions, as the industry consumes 2.2 million tonnes of coal and 1.9 million tonnes of firewood and emits 8.75 million tonnes of greenhouse gas (GHG) emissions annually. Brick making is characterised by low energy efficiency, prevalence of small-scale kilns with limited financial capacity, and dominance of a single raw material (clay) and product (solid clay brick). Transformative changes in the brick industry are required, not only switching to cleaner brick kilns, but also diversifying their production inputs in order to save natural resources, reduce GHG emissions, and increase energy efficiency.

THE OBJECTIVES

The project aims to contribute to a reduction in GHG emissions, deforestation and land degradation in Bangladesh. It specifically seeks to promote sustainable and eco-friendly building materials and practices in Bangladesh within an enabling policy environment.

THE WAY FORWARD

- Conducting research and design of sustainable building materials;
- Strengthening environmental certification and eco-labelling schemes for building materials;
- Organising multi-stakeholder awareness and marketing campaigns on sustainable building practices;
- Providing capacity building support to technical experts on sustainable building and for micro, small and medium-sized enterprises (MSMEs) to switch to alternative bricks;
- Setting up replicable business models of green technology and engaging with financial institutions to improve access to finance;
- Engaging with policymakers to promote and regulate green construction and public procurement.

LEAD PARTNER

Oxfam GB,
UK

PARTNERS

- Housing and Building Research Institute (HBRI), *Bangladesh*
- Bangladesh Environmental Lawyers Association (BELA), *Bangladesh*
- Jagorani Chakra Foundation (JCF), *Bangladesh*

CONTACT DETAILS

Ms. Afroz Mahal
+88-01713247166
amahal@oxfam.org.uk
House #4, Road #3, Block I
Banani, Dhaka - 1213
Bangladesh

Duration *1/2016 – 6/2019*
Total budget *EUR 2,000,000 (EU contribution: 90 %)*

OXFAM GB, BANGLADESH PROGRAMME

As lead partner, Oxfam provides overall management and technical support in achieving planned objectives.

Ms. Afroz Mahal
amahal@oxfam.org.uk
Mr. Snehal V Soneji
SSoneji@oxfam.org.uk

HOUSING AND BUILDING RESEARCH INSTITUTE (HBRI)

HBRI facilitates technology transfer and generates market transformations towards alternative bricks (ABs) and other green construction materials.

Mr. Mohammad Abu Sadeque
director@hbri.gov.bd

BANGLADESH ENVIRONMENTAL LAWYERS ASSOCIATION (BELA)

BELA conducts policy research and creates favourable policy and regulatory environment.

Ms. Syeda Rizwana Hasan
bela@bangla.org

JAGORANI CHAKRA FOUNDATION (JCF)

JCF promotes ABs and technologies amongst brick manufacturers and consumers.

Mr. Md. Azadul Kabir Arzoo
jcjsr@ymail.com
psbbp.jcf@gmail.com

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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.

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".

LEAD PARTNER

Fundación Tecnalia Research & Innovation, *Spain*

PARTNERS

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

CONTACT DETAILS

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

Duration *3/2014 – 3/2018*
Total budget *EUR 2,089,982.00 (EU contribution: 90%)*

Funded by the European Union

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

Mr. Mikel Pérez Máiz
mikel.perez@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 (BFLLFEA)

As a partner, BFLLFEA 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
bfllfea55@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
tariqmzaki@gmail.com
tanners@net2bd.com

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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 Diversifi ed 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.

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 trough 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 %)*

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. Sekhar Bhattacharjee
+880-2-9112315
sekhar.bhattacharjee@care.org
CARE Bangladesh
Pragati Insurance Bhaban
(9th - 13th floor)
20-21, Kawran Bazar
Dhaka - 1215
Bangladesh

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. Sekhar Bhattacharjee
sekhar.bhattacharjee@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

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

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
nislamdcpuk@yahoo.com

Funded by the European Union

EuropeAid

IMPROVING CONSUMER AWARENESS AND ACCESS TO CERTIFIED SAFE TOMATO AND MANGO PRODUCTS IN BANGLADESH

THE CHALLENGE

Food safety in the Bangladeshi fruit and vegetable sector is an area of increasing concern. The consumers have lost confidence in locally produced foodstuffs. The current intense political and consumer pressure on the horticultural industry has urged the sector to adhere to food safety levels. With the legal framework for food safety in place and a strong market demand for sustainable and safe produce, there is now a conducive environment for change.

THE OBJECTIVES

The project seeks to contribute to greater consumer confidence in domestically produced processed horticultural products, reduced food safety incidences in the domestically processed horticultural products, and inclusive business development in the fruit and vegetable processing industry. At the end of the four-year project at least 50% of the domestically processed tomato and mango products marketed and consumed in Bangladesh will be certified safe.

THE WAY FORWARD

- Conducting survey and enhancing consumer awareness on safe domestically produced mango and tomato products;
- Establishing public-private agreement on a transparent and independently verifiable food safety assurance system;
- Setting up food safety standards;
- Building the capacity of supply chain actors using the "train the trainers" approach based on need assessment;
- Applying certification and communicating the results;
- promote and support a transition towards sustainable and safe food markets from 'field to fork' in Bangladesh.

LEAD PARTNER

SNV Netherlands Development Organisation, *Netherlands*

PARTNERS

- Consumers Association of Bangladesh (CAB), *Bangladesh*
- Centre of Excellence Agro Food Skills Foundation (CEAFS), *Bangladesh*

ASSOCIATES

- Bangladesh Food Safety Authority (BFSA)
- Bangladesh Agro-Processors Association (BAPA)

CONTACT DETAILS

Mr. Mahbub Ullah
+88-02-988708-9
mullah@snvworld.org
House No. 11 (2nd Floor), Road No. 72
Gulshan-2, Dhaka 1212
Bangladesh

Duration *1/2016 – 12/2019*
Total budget *EUR 1,999,811 (EU Contribution: 90%)*

SNV NETHERLANDS DEVELOPMENT ORGANISATION (SNV)

As the lead partner, SNV is responsible for the overall project management and implementation.

Mr. Mahbub Ullah
mullah@snvworld.org

CONSUMERS ASSOCIATION OF BANGLADESH (CAB)

CAB represents the interest of project beneficiaries and contributes in consumer awareness campaign.

Mr. Ghulam Rahman
cabdhaka2013@gmail.com

CENTRE OF EXCELLENCE AGRO FOOD SKILLS FOUNDATION (CEAFS)

CEAFS represents the food processing industry. CEAFS contributes in capacity building activities, certification and communication of sustainable results.

Mr. Md. Shafiqur Rahman Bhuiyan
chairman.ceafs@gmail.com

Funded by the European Union

EuropeAid

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.

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.

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
Ms. Liesbeth Casier
lcasier@iisd.org
9 chemin de Balexert
1219 Châtelaine
Geneva
Switzerland

Twitter: @GPPBhutan
www.gppbhutan.bt

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

Ms. Liesbeth Casier
lcasier@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.

Mr. Jan Bethge
jan.bethge@scp-centre.org

Mr. Janpeter Beckmann
janpeter.beckmann@scp-centre.org

Funded by the European Union

EuropeAid

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.

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.

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

Mr. Fabio Moni
+ 39-02-27000291
fabiomoni@acraccs.org
Via Lazzaretto 3
20124 Milano
Italy

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.

Mr. Fabio Moni
fabiomoni@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

Funded by the European Union

EuropeAid

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 %).

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 2,482,103 (EU Contribution: 80%)*

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 Enterpriese (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

Dr. Lou Yiping
+86-10-64706161
yplou@inbar.int
INBAR, P.O. Box 100102-86
Beijing 100102
China

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 PRO VINCIAL ASSOCIATION FOR SMALL AND MEDIUM ENTERPRIESE (ZJSME)

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

Mr. Cai Zhangsheng
caizs999@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

Funded by the European Union

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.

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_2-eq emission and saving 180,000 tce by the 500 SMEs.

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*

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. In 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

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

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

Funded by the European Union

EuropeAid

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 signifi cantly lower than in Europe, leading to lower reliability, lower efficiency, less-than-ideal refrigerants used, and limited range.

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.

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: Yuannan 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*

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

Funded by the European Union

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

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

SHANGHAI JIAOTONG UNIVERSITY (SJU)

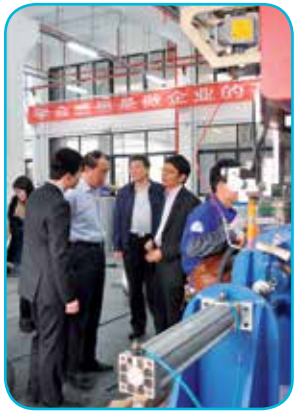
SJU is a project partner. It contributes in the trainings on heat pump water heater (HPWH) and provides trainers for other technical trainings.

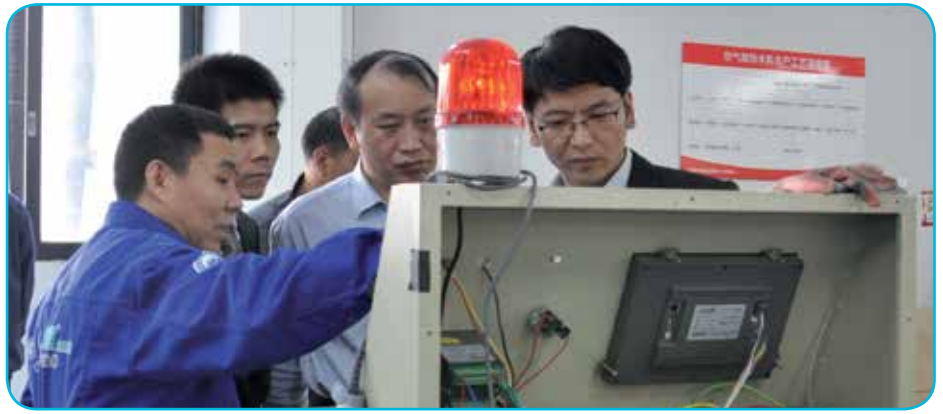
Mr. Chen Jiangping
jpchen@sjtu.edu.cn

SP SVERIGES TEKNISKA FORSKNINGSINSTITUT 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





EuropeAid

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.

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.

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 Diseno 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@zjjxw.gov.cn
Building 8, Administration Center, 479 Tiyuchang Road, Zhejiang
China

Duration *2/2013 – 1/2017*
Total budget *EUR 1,499,000 (EU Contribution: 79.97%)*

Funded by the European Union

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@zjjxw.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 linyeo@zju.edu.cn

SHAOXING 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
jerry0066@hotmail.com

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

EuropeAid

UP-SCALING AND MAINSTREAMING SUSTAINABLE BUILDING PRACTICES IN WESTERN CHINA

THE CHALLENGE

China's unprecedented socio-economic growth drives expansion in the building sector, which has added about 2 billion m² annually over the last decades. The building sector accounts for about 30% of the final energy consumption in China. The Chinese government has issued its first green building standard in 2006. By 2020, the Chinese government aims at 50% of new constructions. Only 10% of the construction projects currently reach that standard, out of which 90% are located in the developed eastern China. In western parts of China, new construction of green buildings is still in a pilot stage.

THE OBJECTIVES

The project aims at scaling up sustainable building practices in less developed western China, reducing climate and resource impacts of the building sector, and contributing to sustainable socio-economic growth in China. It seeks to foster sustainable building practices among MSMEs in Chongqing City and Yunnan province with replication potential for the western China.

THE WAY FORWARD

- Providing capacity building and technical support for MSMEs in the building supply chain;
- Raising MSME users' awareness about energy saving and enhancing facility managers' capacity of energy management in large commercial buildings;
- Developing concrete solutions to facilitate the access to finance for MSMEs producing building materials/components and energy service MSMEs;
- Supporting the development of policy instruments fostering the uptake of sustainable building practices;
- Improving business network fostering sustainable buildings;
- Disseminating key lessons of sustainable building practices to the whole China and at the regional level in Asia.

LEAD PARTNER

The Wuppertal Institute for Climate, Environment and Energy (WI), *Germany*

PARTNERS

- China Association of Building Energy Efficiency (CABEE)
- Chongqing Association of Building Energy Efficiency (CQBEEA)
- Yunnan Development Centre for Building Technology (YNBTDC)
- Beijing University of Civil Engineering and Architecture (BUCEA)
- Yunnan Engineering Quality Supervision and Management Station (YEQSMS)
- Chongqing Economic Promotional Centre for Building Material Industry (CEPCBM)

ASSOCIATES

- Ministry of Housing and Urban & Rural Development (MoHURD), *China*
- Yunnan Provincial Agency of Housing and Urban & Rural Development (YNHURD), *China*
- Chongqing Municipal Agency of Housing and Urban & Rural Development (CQHURD), *China*
- Chongqing Banking Association (CQBA), *China*
- Yunnan Banking Association (YNBA), *China*
- Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), *Germany*
- Esconet China/German Industry & Commerce Greater China

CONTACT DETAILS

Dr. Chun Xia-Bauer
+49-202-2492-257
chun.xia@wupperinst.org
Döppersberg 19, 42103 Wuppertal
Germany

Funded by the European Union

Duration *1/2016 – 12/2019*
Total budget *EUR 2,800,000 (EU Contribution: 80%)*

THE WUPPERTAL INSTITUTE FOR CLIMATE, ENVIRONMENT AND ENERGY (WI)
As the leading partner, WI coordinates the whole project activities and provides technical assistance and policy expertise.

Dr. Chun Xia-Bauer
chun.xia@wupperinst.org

CHINA ASSOCIATION OF BUILDING ENERGY EFFICIENCY (CABEE)
CABEE coordinates the activities implemented by Chinese partners, communicates with MOHURD and local construction agency/commission, and provides technical expertise.

Mr. Yong Wu
lyn.tju@live.com

CHONGQING ASSOCIATION OF BUILDING ENERGY EFFICIENCY (CQBEEA)
CQBEEA is the local partner in Chongqing. It collaborates with CEPCBM to provide technical expertise and organise project events in Chongqing.

Mr. Yong Cao
636000447@163.com

CHONGQING ECONOMIC PROMOTIONAL CENTRE FOR BUILDING MATERIAL INDUSTRY (CEPCBM)
CEPCBM provides technical expertise related to local condition and organises project events taking place in Chongqing.

Mr. Hong Chen
qqyanqqyan@163.com

YUNNAN DEVELOPMENT CENTRE FOR BUILDING TECHNOLOGY (YNBTDC)
YNBTDC is the local partner in Yunnan. It collaborates with YEQSMC in providing technical expertise related to local condition and organising project events in Yunnan.

Mr. Dan Wu
ynbtdc_energy@163.com

YUNNAN ENGINEERING QUALITY SUPERVISION AND MANAGEMENT STATION (YEQSMS)
YEQSMC provides technical expertise and organises kick-off and various project events taking place in Yunnan.

Mr. Wang Wenguo
449311909@qq.com

BEIJING UNIVERSITY OF CIVIL ENGINEERING AND ARCHITECTURE (BUCEA)
BUCEA plays a role as coordinator for the Chinese partners. It provides support to local partners, implements training and provides policy advices.

Mr. Mingshun Zhang
zhangmingshun@bucea.edu.cn

EuropeAid

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.

THE OBJECTIVES

The project promotes an increased adoption of sustainable technologies by MSMEs. It specifically targets three challenge areas that are promotion of sustainable practices across the supply chain, access to finance for adopting sustainable procurement and production practices, and promotion of sustainable consumption through certified production.

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%)*

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

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

Mrs. Aruna Rangachar Pohl
aruna@ifhd.in

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

Funded by the European Union

EuropeAid

GOING GREEN

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.

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'.

LEAD PARTNER

Traidcraft Exchange, *UK*

PARTNER

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

CONTACT DETAILS

Mrs. Maveen Pereira
+44-7742642526
maveen.pereira@traidcraft.org
Traidcraft Exchange
Kingsway, Team Valley, Gateshead,
Tyne & Wear, NE11 0NE
UK

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.

Mrs. Maveen Pereira
maveen.pereira@traidcraft.org

Mrs. Pragya Majumder
pragya.majumder@traidcraft.org

ALL INDIA ARTISANS AND CRAFTWORKERS WELFARE ASSOCIATION (AIACA)

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

Mr. Mayank Trivedi
mayank@aiacaonline.org

Funded by the European Union

EuropeAid

GREEN RETAIL INDIA

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).

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.

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

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. Mecki Naschke
mecki.naschke@scp-centre.org

Mr. Jan Bethge
jan.bethge@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.

Ms. Marian Thomassen
marian@assistasia.org

Funded by the European Union

EuropeAid

SWITCHING TO A SUSTAINABLE AUTO-RICKSHAW SYSTEM: TRIGGERING SUSTAINABLE LIFESTYLES AND POVERTY REDUCTION IN URBAN INDIA

THE CHALLENGE

Auto-rickshaws have been a landmark feature of Indian cities since their introduction in the late 1950s, becoming an indispensable aspect of urban mobility for millions of people. The auto-rickshaw sector could play a key role in shaping a sustainable urban transport ecosystem; it is, however, still an inefficient sector that neither answers appropriately to the changing dynamics of urban mobility in India, nor embeds a sustainable pattern of transportation.

THE OBJECTIVES

The project aims at promoting sustainable lifestyles and poverty reduction while reducing CO_2 emissions and air pollution in India. The project fosters the scaling up of a replicable and integrated model of sustainable auto-rickshaw transport, based on clean technologies in the Cities of Bangalore and Chennai.

THE WAY FORWARD

- Conducting a Behavioral Change Campaign (BCC) in order to promote the use of 4-stroke auto-rickshaws as a promising sustainability practice;
- Promoting the adoption of a Voluntary Code of Practice by business operators;
- Creating an integrated App-SMS service to support re-organisation of the auto-rickshaw sector to better fit consumers' needs;
- Providing training and strengthening the auto-rickshaw drivers' organisations by creating a Federative Structure;
- Developing commercial partnerships with advertisement companies to use auto-rickshaws as a marketing vehicle;
- Enhancing the drivers' livelihood through increased income and health and safety, and better access to finance. The auto-rickshaw drivers may increase their income by 30% and the number of drivers that own their auto-rickshaw will increase by 70%;
- Working with policymakers to establish regulatory framework promoting the use and purchase of eco-friendly auto-rickshaws.

LEAD PARTNER

Fondazione ACRA, *Italy*

PARTNERS

- The Energy and Resources Institute (TERI), *India*
- Stichting Enviu Nederland (Enviu Foundation), *Netherlands*
- Women Health and Development (WHAD), *India*

ASSOCIATES

- TVS Motor Company, *India*
- BAJAJ Auto Limited, *India*
- Ing Vysya Life Insurance Co Ltd, *India*
- Corporation Bank Limited, *India*
- Canara Bank Limited, *India*
- MicroGraam, *India*

CONTACT DETAILS

Mrs. Elena Scanferla
+39-02-27000291
elenascanferla@acra.it
Via Lazzaretto, 3
Milano
Italy

Duration *3/2016 – 2/2020*
Total budget *EUR 1.554.742,10 (EU Contribution: 80%)*

FONDAZIONE ACRA (ACRA)
As the leading partner, ACRA is responsible in the overall coordination of the action, at operational and administrative level.

Mr s. Elena Scanferla
elenascanferla@acra.it

THE ENERGY AND RESOURCES INSTITUTE (TERI)
In the project, TERI plays a role in leading the work-package on the ecosystem and regulatory framework.

Ms. Akshima T Ghate
akshima@teri.res.in
krajag@teri.res.in

STICHTING ENVIU NEDERLAND (ENVIU)
In the project, Enviu plays a role in developing sustainable and social innovations and brings them to the market.

Mr. Stef van Dongen
Stef@enviu.org

WOMEN HEALTH AND DEVELOPMENT (WHAD)
WHAD is a local NGO and plays a role in strengthening and creating of auto-rickshaw drivers' organisations.

Dr. Ida Deva Chandrika
whadindia@gmail.com

Funded by the European Union

EuropeAid

EVOLVING A WOMEN-CENTRED MODEL OF EXTENSION OF IMPROVED COOK STOVES FOR SUSTAINED ADOPTION AT SCALE

THE CHALLENGE

Over 145 million Indian households use traditional cook stoves for daily cooking and depend on biomass (wood, dung, forest products) as fuel. This has significant implications especially on women's health due to household air pollution (HAP). A complex combination of factors like cooking traditions, intra-household distribution of incomes and gender dynamics, culture, religion, and affordability affect sustained adoption and use of Improved Cook Stoves (ICS) in the country. Low demand discourages suppliers from investing in ICS, and suitable financing options for consumers and entrepreneurs are unavailable. These limit the transition of poor households to clean cooking energy options. There is a need to develop a women-centered model of ICS extension that enables sustainable adoption backed by a strong and inclusive value chain.

THE OBJECTIVES

The project seeks to promote sustainable adoption of ICS as a clean cooking energy solution among forest-dependent households (FDH), resulting in 10,000 women from FDHs using ICS. The project also develops a sustainable ICS adoption model for replication among 800 million rural households in India, who use traditional and polluting cook stoves.

THE WAY FORWARD

- Creating awareness through 200 Self Help Groups (SHGs) on ICS, based on findings of situational analysis and a baseline study;
- Selecting suitable ICS options available and developing new ICS options for testing and adoption;
- Training and developing Sustainable Household Energy (SHE) Champions and supporting them in organising SHE-Schools;
- Designing exclusive credit products which can be offered by local microfinance institutions (MFIs) to facilitate ICS adoption;
- Sensitising key supply chain stakeholders to support appropriate cooking solutions;
- Providing business development and technical training to women entrepreneurs for establishing and running ICS based enterprises, and facilitating enterprise linkages with market actors.
- Engaging with policymakers through policy briefs as evidence-based advocacy.

Duration *1/2016 – 12/2019*
Total budget *EUR 2,000,000 (EU Contribution: 80%)*

LEAD PARTNER
CARE, *India*

PARTNER
CARE, *France*

CONTACT DETAILS
Mr. Sudeep Sinha
+91-11-49101100
ssinha@careindia.org
E-46/12 Okhla Industrial Area Phase II
New Delhi 110 020,
India

CARE INDIA SOLUTIONS FOR SUSTAINABLE DEVELOPMENT (CARE INDIA)
CARE India has a lead role in project planning, overall management, monitoring, reporting and capacity building.

Ms. Mousumi Barua
mbarua@careindia.org

Ms. Rekha Panigrahi
rpanigrahi@careindia.org

CARE FRANCE
CARE France contributes in systematic tracking of project progress. It mobilises ICS suppliers in Europe, conducts research study on carbon credit and facilitates international workshop.

Mr. Guillaume Devars
devars@carefrance.org
programmes@carefrance.org

Funded by the European Union

EuropeAid

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.

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.

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 (YLKI)

CONTACT DETAILS

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

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.

Mrs. Santi Susanti
santi@pupuk.or.id

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 industy.

Mr. Phil Harman
pharman@snvworld.org

Funded by the European Union

EuropeAid

IMPROVED COOK STOVES PROGRAMME LAO PDR

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.

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.

LEAD PARTNER

Oxfam Novib, *Netherlands*

PARTNERS

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

CONTACT DETAILS

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

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

Funded by the European Union

EuropeAid

LUANG PRABANG: HANDLE WITH CARE

THE CHALLENGE

Tourism is an important growth sector in Laos. It contributes significantly to the country's gross domestic product (GDP), about 7-9% of GDP, as well as employment generation. Unsustainable tourism causes deterioration of the environmental, social, and cultural heritage of Laos. Particularly Luang Prabang as a world heritage site is in danger and needs a more sustainable tourism.

LEAD PARTNER

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), *Germany*

PARTNERS

- sequa, *Germany*
- Lao Association of Travel Agents (LATA), *Lao PDR*
- Lao Hotel and Restaurant Association (LHRA), *Lao PDR*

CONTACT DETAILS

Dr. Hartmut Janus
+856-21-226003
Hartmut.Janus@giz.de
Lao-German Development Cooperation
P.O. Box 10838 Vientiane
Lao PDR

THE OBJECTIVES

The project seeks to cultivate sustainable tourism products in a fragile destination. It targets an increased provision and consumption of sustainable tourism products to preserve the destination with regard to 1) assurance of private sector uptake and benefit, 2) responsible utilisation of natural resources, and 3) protection of cultural heritage, minorities and inclusive economic participation.

THE WAY FORWARD

- Building the capacity of business membership organisations (BMOs), entrepreneurs and employees in the tourism sector and relevant government officials to develop sustainable tourism products;
- Strengthening communication concerning sustainable tourism between tourism stakeholders through public-private dialogue;
- Developing and offering new sustainable tourism products adhering to the practices of sustainable consumption and production (SCP) with the inclusion of local communities, retailers and craft producers;
- Adapting the ASEAN sustainable tourism standards, harmonising them with the national framework, and preparing certification schemes;
- Raising awareness on benefits and acceptance of adapting to sustainable tourism, and promoting sustainable Lao tourism.

Duration *5/2016 – 4/2019*
Total budget *EUR 1,800,000 (EU contribution: 90 %)*

DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT (GIZ)
As the lead, GIZ coordinates and manages all project activities including implementation and monitoring of SCP measures.

Dr. Hartmut Janus Hartmut
Janus@giz.de

SEQUA
sequa strengthens BMOs for promotion of application and consumption of sustainable tourism. It facilitates the inclusion of local communities and producers.

Dr. Christiane Beck
Christiane.Beck@sequa.de

LAO ASSOCIATION OF TRAVEL AGENTS (LATA)
LATA disseminates best practices, promotes wider awareness of the issues and uptake among their membership base.

Ms. Saysamone Srithirath
admin@latalaos.com

LAO HOTEL AND RESTAURANT ASSOCIATION (LHRA)
LHRA raises awareness in cooperation with LATA and acts as a multiplier to its member companies.

Mr. Oudet Souvannavong
laohra@gmail.com

Funded by the European Union

EuropeAid

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.

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

- Project research and development activities have designed cost-effective and eco-friendly products and established a regulatory framework based on related standards;
- Three ash based construction materials (AAC blocs, aggregate blocs and dry mortar mixture) have been developed;
- 100 SMEs in the construction industry now make and sell fly ash construction products;
- 14 vocational training schools (TVET) have signed a MoU with Caritas Czech Republic with 176 teachers have received training. Currently, 5 schools already start teaching 'Green construction practices' courses;
- Signed 26 MoU with state agencies, labour departments of Erdenet, Darkhan and Ulaanbaatar districts (9 districts), and professional associations.

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
Caritas Czech Republic
Sukhbaatar district, 8 Khoroo,
Academic Sodnom street, Ulaanbaatar
Mongolia

Duration *1/2012 – 8/2016*
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 Iverfeld
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

Funded by the European Union

EuropeAid

IMPROVING RESOURCE-EFFICIENCY AND CLEANER PRODUCTION IN THE MONGOLIAN CONSTRUCTION SECTOR THROUGH MATERIALS RECOVERY

THE CHALLENGE

The booming construction industry in Mongolia has resulted in several environmental issues, a key one is the production of massive amounts of construction and demolition (C&D) waste and its poor management. It is estimated that construction waste accounts for 20-25% of the overall solid waste produced, making it one of the largest waste streams in the country. In Ulaanbaatar, much of this construction waste is dumped illegally. Construction companies do not have any proper inventory systems to classify the different types of waste. Also, most of the professionals and workers in the sector lack awareness on the waste issue and the 3R approach.

THE OBJECTIVES

The project seeks to contribute to poverty reduction and mitigation of climate change in Mongolia. It promotes sustainable production and consumption in the construction sector, through supporting SMEs to switch to more resource-efficient practices.

THE WAY FORWARD

- Conducting research on construction waste recycling applications, and introducing the findings and products to the targeted SMEs;
- Designing training materials, conducting training for different target groups, and developing a university curriculum for C&D waste management (massive online open course);
- Establishing a certification system of Competence for Demolition Operatives based on the "Smart Demolition" training materials;
- Establishing a set of standards and providing a list of recommended additions to the Mongolian standards regulatory framework;
- Organising marketing and awareness-raising activities on products made of C&D waste;
- Facilitating access to finance for recycling SMEs;
- Conducting advocacy to improve the legal framework.

LEAD PARTNER

Caritas Czech Republic

PARTNERS

- TU DELFT, *Netherlands*
- Mongolian National Recycling Association, *Mongolia*
- Mongolian University of Science and Technology, School of Civil Engineer and Architecture, *Mongolia*
- Economic Policy and Competitiveness Research Center, *Mongolia*

ASSOCIATES

- Construction Development Center, *Mongolia*
- Mongolian Agency of Standardisation and Metrology, *Mongolia*
- Mongolian Bankers Association/ European Bank of Reconstruction and Development, *Mongolia*
- National Integrated Centre for Construction Development, *Mongolia*
- Tuul River Basin Authority, *Mongolia*

CONTACT DETAILS

Mr.Thibault Chapoy
thibault.chapoy@caritas.cz
+976-9597-5509
Sukhbaatar District
6th Khoroo University Street #11/1
Ulaanbaatar
Mongolia

Duration *3/2016 – 2/2020*
Total budget *EUR 1,562,500 (EU contribution: 80 %)*

CARITAS CZECH REPUBLIC (CCR)

As lead partner, CCR is responsible for the overall project implementation. CCR involves in awareness raising, advocacy and marketing actions.

Mr. Thibault Chapoy
thibault.chapoy@caritas.cz

ECONOMIC POLICY AND COMPETITIVENESS RESEARCH CENTRE (EPCRC)

EPCRC is responsible for all activities related to green finance and facilitates access to finance for recycling SMEs.

Mrs. Lakshmi Boojoo
odonchimeg@ecrc.mn

MONGOLIAN NATIONAL RECYCLING ASSOCIATION (MNRA)

MNRA is an "umbrella" organisation for more than 20 recycling SMEs. It contributes to training and R&D activities (mobilising SMEs and waste collectors). MNRA assists CCR in awareness-raising and advocacy activities.

Mr. Byambasaikhan Damdinsuren
info@recycling.mn

MONGOLIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (MUST), SCHOOL OF ENGINEERING AND ARCHITECTURE

MUST conducts research on C&D waste, develops product standards, and contributes in designing the training materials and new curriculum.

Ms. Enebish Ninjgarav
ninjgarav@yahoo.com

TECHNISCHE UNIVERSITEIT DELFT (TU DELFT)

TU Delft conducts situation assessment on C&D waste; prepares training materials, guidelines and tools; and provides recommendations on recycling opportunities.

Prof.dr.ir. B.M. Geerken
P.C.Rem@tudelft.nl

Funded by the European Union

EuropeAid

SMES FOR ENVIRONMENTAL ACCOUNTABILITY, RESPONSIBILITY AND TRANSPARENCY

THE CHALLENGE

Despite some progress, Myanmar's garment industry still lacks awareness in the principles of sustainable consumption and production (SCP) and social responsibility. Garment companies need to comply with environmental and social standards to regain access to international markets. Thus, the social and environmental conditions, especially for workers in the sector, will need to be reviewed.

THE OBJECTIVES

The project seeks to contribute to a switch to sustainable garment consumption patterns and promote sustainable growth of Myanmar's garment sector. Specifically the project aims at institutionalising, up-scaling and replicating successful SCP practices in the garment sector developed and implemented during the SMART Myanmar I project.

THE WAY FORWARD

- Training SCP consultants on sustainable production and compliance with international standards;
- Carrying out social compliance academies to improve working conditions in garment factories;
- Conducting workshops with banks on green finance;
- Launching a branding and communication initiative "Made in Myanmar" to inform European and Myanmar consumers;
- Building the capacity of female workers to claim their rights;
- Identifying good practice companies and honouring the best ones;
- Initiating public private dialogues on sustainable public procurement;
- Advocating SCP-related issues with government institutions.

LEAD PARTNER

sequa, *Germany*

PARTNERS

- Myanmar Garment Manufacturers Association (MGMA)
- Association of Development Financing Institutions in Asia and the Pacific (ADFIAP)
- Foreign Trade Association of German Retail Trade (AVE)
- Stichting Made-by Label, *Netherlands*

ASSOCIATES

- Stockman Group (Lindex), *Sweden*
- Hennes & Mauritz, *Sweden*
- Myanmar Ministry of Commerce, *Myanmar*
- Myanmar Ministry of Labour, *Myanmar*
- Centre for the Promotion of Imports from Developing Countries (CBI), *Netherlands*
- Promotion of Social and Environmental Standards Program, GIZ Bangladesh
- Myanmar Bankers Association, *Myanmar*

CONTACT DETAILS

Mrs. Simone Lehmann
+49-(0)-228-98238-47
simone.lehmann@sequa.de
Alexanderstrasse 10, 53111 Bonn
Germany

Duration *1/2016 – 12/2019*
Total budget *EUR 2,777,629.59 (EU contribution: 90%)*

SEQUA
As the leading partner, sequa is in charge of the overall project management and coordination.

Mrs. Simone Lehmann
Simone.Lehmann@sequa.de

MYANMAR GARMENT MANUFACTURERS ASSOCIATION (MGMA)
MGMA is a project partner and responsible for local coordination and implementation of the project.

Mr. U Myint Soe
umyintsoe.chindwin@gmail.com

ASSOCIATION OF DEVELOPMENT FINANCING INSTITUTIONS IN ASIA AND THE PACIFIC (ADFIAP)
As a project partner, ADFIAP contributes in the (green) financing and incentive schemes.

Mr. Octavio B. Peralta
obp@adfiap.org

FOREIGN TRADE ASSOCIATION OF GERMAN RETAIL TRADE (AVE)
AVE provides capacity building to MGMA members and technical assistance with a focus on B2B, business delegations and CSR.

Ms. Andrea Breyer
andrea.breyer@ave-intl.de

STICHTING MADE-BY LABEL (MADE-BY)
Made-by plays a role in retailer scorecard, consumer engagement, processing/washing plants, and waste water treatment.

Dr. Christina Raab
christina.raab@made-by.org

Funded by the European Union

EuropeAid

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.

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.

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. Georgi Dzhartov
+855-(0)-23-986-891
g.dzhartov@geres.eu
Sangkat Chaktomuk,
Khan Daun Penh,
Phnom Penh 12207
Cambodia

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. Georgi Dzhartov
g.dzhartov@geres.eu

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, ICoPro-DAC 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

Funded by the European Union

EuropeAid

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.

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.

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

Ms. Moon Shrestha
+977-1-5537622
moon.shrestha@helvetas.org.np
Jhamsikhel, Lalitpur
Nepal

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.

Ms. Moon Shrestha
moon.shrestha@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. Bhishma P. Subedi
ansab@ansab.org
bhishmasubedi@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

Funded by the European Union

EuropeAid

SUSTAINABLE PRODUCTION OF COMMERCIALLY 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.

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.

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

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

Funded by the European Union

EuropeAid

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.

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.

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

Mr. Surendra Chaudhary
+977-1-5012571 Ext: 120
suchaudhary@mercycorps.org
Sanepa, 44700
Nepal

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.

Mr. Surendra Chaudhary
suchaudhary@mercycorps.org

Ms. Katie Hau
khau@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. Amar B. Manandhar, amar@seednepal.org

Funded by the European Union

EuropeAid

LEAPFROGGING THE GREEN CRAFT OF FELT MAKING

THE CHALLENGE

The Democratic People's Republic (DPR) of Korea's economy is dominated by large-scale, often heavily polluting industries, and its economic growth is stalled by several factors, among them obsolete technology, trade obstacles and an insecure electricity supply. The sustainable consumption and production (SCP) does not figure too prominently on the current economic development agenda. Therefore, an innovative approach is needed that takes the unique situation and particular hurdles in the DPR Korea into consideration. The artisanal sector is suitable as it is less regulated and more accessible than other sectors. Additionally, the project targets a particularly vulnerable part of the population, namely the deaf.

THE OBJECTIVES

The project aims at launching a systemic switch to sustainable production methods and sustainable consumption practices in DPR Korea. Specifically, it strengthens sustainable production methods in the felt making industry and textile processing, and creates awareness and bolster demand for green products, particularly felt products.

THE WAY FORWARD

- Providing trainings for textile and building sector as well as coaching sessions for individual SMEs and follow-up support;
- Awareness raising and outreach among stakeholders and joint identification of felt-production techniques and felt products;
- Supporting the formation of clusters and the felt industry association, and establishing export market relations;
- Establishing green labelling scheme for felt products and providing certification coaching for producers and re-processors;
- Implementation of multi-stakeholder dialogue in North Korea, including local government officials, SME representatives, educational institutions, and others.

LEAD PARTNER

adelphi research, *Germany*

PARTNER

- Pyongyang International Information Center on New Technology and Economy (PIINTEC)
- Korean Federation for the Protection of the Disabled (KFPD)
- TOGETHER-Hamhung (THH), *Germany*
- German-Belgian-Luxembourgian Chamber de Commerce (AHK debelux)

CONTACT DETAILS

Mr. Rainer Agster
+49-30-8900068-0
agster@adelphi.de
Caspar-Theyss-Str. 14a
14193 Berlin
Germany

Duration *3/2016 – 2/2020*
Total budget *EUR 896,308 (EU contribution: 80 %)*

ADELPHI
adelphi is the lead partner, responsible for the overall project management and implementation. It contributes in policy analysis, consulting and project management in the field of sustainabilityn.

Mr. Rainer Agster
agster@adelphi.de

PYONGYANG INTERNATIONAL INFORMATION CENTER ON NEW TECHNOLOGY AND ECONOMY (PIINTEC)
PIINTEC is a local NGO who acts as the SCP know-how transfer partner. PIINTEC will become the country's SCP knowledge and facilitation centre.

dmw@star-co.net.kp

KOREA FEDERATION FOR THE PROTECTION OF THE DISABLED (KFPD)
KFPD is a local NGO dedicated to the disability work in the civil society. It has expertise in working with the deaf community of the DPRK.

Kfpd729@star-co.net.kp

TOGETHER – EDUCATIONAL CENTER FOR DEAF, BLIND, AND NONDISABLED CHILDREN HAMHUNG (THH)
THH is a German DPO – a Disabled Persons' Organisation that works to further qualify a number of deaf and hearing persons towards inclusive participation in the society. THH is the key expert in sign language for the media produced by PIINTEC.

Mr. Ralph Binneweg
info@together-hamhung.org

GERMAN-BELGIAN-LUXEMBOURGIAN CHAMBER OF COMMERCE (AHK DEBELUX)
AHK debelux is a project partner, responsible in development of VET schemes, capacity building, and the promotion of external trade together with the internalisation of business and services.

Mr. Matthias Popp
popp@debelux.org

Funded by the European Union

EuropeAid

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.

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.

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

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 GGMBH

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 Dhingra
dhingras@teri.res.in

Duration *3/2014 – 3/2018*
Total budget *EUR 2,161,785.20 (EU contribution: 79.80%)*

Funded by the European Union

EuropeAid

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.

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.

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

www.hems.ph

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

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

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

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. Orencia
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

Funded by the European Union

EuropeAid

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.

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).

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. Hugo Agostinho
+94-77-210-2229
hugo.agostinho@peopleinneed.cz
c/o Janatakshan,
05 Lionel Edirisinghe Mawatha, Colombo 5
Sri Lanka

Duration *1/2014 – 12/2016*
Total budget *EUR 831,931.42 (EU contribution: 80 %)*

PEOPLE IN NEED (PIN)

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

Mr. Hugo Agostinho
hugo.agostinho@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

Funded by the European Union

EuropeAid

SCALING UP OF ETHICAL BIOTRADE INITIATIVES WITHIN PHYTOPHARMACEUTICAL SECTOR IN VIETNAM

THE CHALLENGE

Vietnam has a large resource of natural ingredients which can be used as raw materials for the pharmaceutical, cosmetic and food industries. However, the supply is dwindling and Vietnam has to import large volumes of raw materials. Ninety-five percent of traditional Vietnamese remedies rely on this natural resource base with an annual production of up to 40,000 tonnes. A weak regulatory framework on natural resource extraction, combined with ineffective management of natural resources, lack of incentives for smallholders to harvest forest products sustainably, and weak linkages between supply chain actors contribute to the situation.

THE OBJECTIVES

The project aims at upscaling the sustainable Ethical Biotrade (EBT) business model to the Natural Ingredient (NI) sector and making Vietnam an internationally recognised supplier of NI to phyto-pharmaceutical, cosmetic and food supplement industries.

THE WAY FORWARD

- Strengthening a group of leading 12 small and medium-sized phyto-pharmaceutical enterprises to supply national and international markets with EBT products;
- Stimulating national and international consumer demand for BioTrade products from Vietnam;
- Supporting more than 5,000 smallholder farmers and collectors to increase their livelihoods through EBT value chains and stable supplies to EBT enterprises;
- Conducting environmental and energy assessments with the assistance of Vietnam Cleaner Production Center;
- Investments in green and modern equipment/technology
- Communicating and promoting values and benefits of EBT compliant phyto-pharmaceutical products;
- Monitor Ethical BioTrade standard and share the results with stakeholders;
- Conducting a policy dialogue and enable sustainable growth of the phyto-pharmaceutical sector based on EBT standard.

LEAD PARTNER

HELVETAS Intercooperation, *Germany*

PARTNER

- Centre for Rural Economy Development (CRED), *Vietnam*

ASSOCIATES

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

CONTACT DETAILS

Mrs. Giang Lam Nguyen
+84-43-843-17-50
Lam.giang@helvetas.org
Van Phuc Diplomatic Quarters
298F Kim Ma Street Hanoi (RO)
Vietnam

Duration *4/2016 – 4/2020*
Total budget *EUR 2,063,357 (EU Contribution: 77.54%)*

HELVETAS INTER-COOPERATION (HI)

As lead partner, HI manages all project activities including implementation of Biotrade standards, upstream and downstream market linkages, and green technology.

Mrs. Giang Lam Nguyen
helvetas.vietnam@helvetas.org
Mr. Vien Kim Cuong
Cuong.vien@helvetas.org

CENTRE FOR RURAL ECONOMY DEVELOPMENT (CRED)

CRED is responsible for the upstream interventions and market linkages, including facilitating, training, and coaching of farmers and farmer groups.

Ms. Ngo Kim Yen
yen.ngo@cred.org.vn

Funded by the European Union

EuropeAid

ESTABLISHING A SUSTAINABLE PANGASIUS 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.

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.

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

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-toone 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

Funded by the European Union

EuropeAid

SUSTAINABLE AND EQUITABLE SHRIMP PRODUCTION AND VALUE CHAIN DEVELOPMENT IN VIETNAM

THE CHALLENGE

Vietnam shrimp production provides livelihoods for over a million of people and improves income for small scale producers accounting for more than 80% of Vietnam shrimp production. However, the booming of shrimp industry, relies on saline water ecology, has been associated with serious environmental and social impacts. The linkage between various shrimp value chain actors has been fragmented and inefficient which negatively affects product quality and traceability which, in turn, decrease the competitiveness of Vietnam shrimp products globally. Limited access to financial resources is also a barrier for small scale producers and SME processors to expand production and comply with the required standards.

THE OBJECTIVES

The project promotes sustainable economic prosperity and poverty reduction in Vietnam through improving social and environmental impacts of shrimp production and related activities in its value chain. The project facilitates the adoption and implementation of participatory Social Impact Assessment (p-SIA) and Biodiversity Environment Impact Assessment (B-EIA) criteria of Aquaculture Stewardship Council (ASC) and Corporate Social Responsibility (CSR) standards by shrimp producers and processors; and improves access to finance.

THE WAY FORWARD

- Building the capacity of 600 small scale shrimp producers and 30 SME processors to implement the p-SIA/B-EIA criteria of ASC as well as CSR standards;
- Building the capacity of shrimp producers and SME processors in improving production efficiency;
- Supporting 200 small scale producers/processors to gain access to financial resources by providing direct support on business-plan development; building capacity for banks' staff on sustainable consumption and production (SCP), facilitat-ing innovative financing solutions (energy service company/ESCO, TRUST fund);
- Supporting the creation of producer groups and creating an enabling policy environment for sustainable supply chain;
- Advocating the take up of SCP-related criteria in the government's agri-value chain credit policy.

Duration *4/2013 – 3/2017*
Total budget *EUR 2,372,437 (EU Contribution: 80%)*

LEAD PARTNER

Stichting Oxfam Novib, *Netherlands*

PARTNER

International Collaborating Centre for Aquaculture and Fisheries Sustainability (ICAFIS), *Vietnam*

CONTACT DETAILS

Ms. Do Thuy Ha
+844 39454448
ha.dothuy@oxfamnovib.nl
22 Le Dai Hanh str.
Hanoi
Vietnam

OXFAM

STICHTING OXFAM NOVIB (OXFAM)

Oxfam is the lead partner and responsible in overall management, capacity building, research and policy advocacy, partnership brokering and cooperation among actors.

Ms. Nguyen Thi Le Hoa
hoa.nguyen@oxfamnovib.nl
Ms. Do Thuy Ha
ha.dothuy@oxfamnovib.nl

INTERNATIONAL COLLABORATING CENTRE FOR AQUACULTURE AND FISHERIES SUSTAINABILITY (ICAFIS)

ICAFIS implements the majority of project activities at local/ provincial level and provides support at national level.

Mr. Tuong Phi Lai
Lai.tuongphi@icafis.vn

Funded by the European Union

EuropeAid

RESOURCE EFFICIENT SUPPLY CHAIN FOR METAL PRODUCTS IN BUILDINGS SECTOR IN SOUTH ASIA

THE CHALLENGE

The construction sector uses various metals like steel, iron, aluminum and copper. In developing economies, more than 60% of the steel is consumed to create new infrastructure. Due to increasing pressure on energy and water resources, economic edge can be sustained only through high resource efficiency. Specific problems in metal products supply chain include lack of modernisation, sub-optimal operation leading to inefficiencies, lack of technical and financial support for improving operations, lack of skilled manpower and traditional mind-set. Adopting resource efficient cleaner production (RECP) measures will improve economic and environmental performance, including reducing greenhouse gas emissions.

THE OBJECTIVES

The project aims at implementing sustainable production processes and practices in 400 SMEs and creating conducive environment for further adoption of sustainable production processes in the metal products supply chain for building and construction sector.

THE WAY FORWARD

- Capacity building of 45 local RECP consultants;
- Addressing a total of 1,000 stakeholders covering the entire value chain of metal products for building and construction sector;
- Stepwise implementation of RECP in 400 companies, with 5-10 "pioneer companies" in each location covered in the first year;
- Organising a technology fair in each of the three project countries, involving RECP technology suppliers;
- Supporting companies to access funding and building their capacity on financial literacy; in parallel, building capacity of bank branches on RECP financing;
- Organising roundtables of customers which are construction corporations - total 200 customers across three countries would be covered;
- Engaging with policymakers of the respective countries in a joint forum on RECP.

LEAD PARTNER

The Energy and Resources Institute (TERI), *India*

PARTNERS

- adelphi research, *Germany*
- Austria Recycling (AREC), *Austria*
- Dhaka Chamber of Commerce & Industry (DCCI), *Bangladesh*
- National Cleaner Production Center (NCPC), *Sri Lanka*
- Society for Environmental and Economic Development Nepal (SEED Nepal)
- STENUM Asia, *India*

CONTACT DETAILS

Dr. Malini Balakrishnan
+91-11-2468-2100
malinib@teri.res.in
Darbari Seth Block, Lodhi Road,
New Delhi 110 003
India

Duration *3/2016 – 2/2020*
Total budget *EUR 2,713,497.53 (EU Contribution: 90 %)*

THE ENERGY AND RESOURCES INSTITUTE (TERI)
As the leading partner, TERI carries out the overall project coordination including RECP implementation.

Dr. Malini Balakrishnan
malinib@teri.res.in

Dr. Vidya S. Batra
vidyasb@teri.res.in

ADELPHI
adelphi leads the overall activities involving access to finance, policy and customer interactions.

Mr. Frederik Eisinger
eisinger@adelphi.de

AUSTRIA RECYCLING – VEREIN ZUR FÖRDERUNG VON RECYCLING UND UMWELTSCHUTZ IN ÖSTERREICH (AREC)
AREC provides technical inputs for RECP implementation and coordinate training of local RECP consultants.

Mr. Stefan Melnitzky
stefan.melnitzky@arecon.at

DHAKA CHAMBER OF COMMERCE AND INDUSTRY (DCCI)
DCCI implements RECP measures, technology fair, finance, policy and customer interactions in Bangladesh.

Mr. A K M Asaduzzaman Patwary
asaduzzaman@dhakachamber.com

NATIONAL CLEANER PRODUCTION CENTRE (NCPC)
NCPC implements RECP measures, technology fair, finance, policy and customer interactions in Sri Lanka.

Mr. Samantha Kumarasena
samantha@ncpcsrilanka.org or
samanthakumarasena@gmail.com

SOCIETY FOR ENVIRONMENTAL AND ECONOMIC DEVELOPMENT NEPAL (SEED NEPAL)
SEED implements RECP measures, technology fair, finance, policy and customer interactions in Nepal.

Mr. Amar B. Manandhar
amar@seednepal.org

STENUM ASIA SUSTAINABLE DEVELOPMENT SOCIETY (STENUM ASIA)
STENUM Asia provides technical inputs for RECP implementation and coordinates technology fairs.

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

Funded by the European Union

EuropeAid

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.

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%)*

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, *Lao PDR*; 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,
Haidan District, Beijing 100081, *China*

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

UNEP – DIVISION OF TECHNOLOGY, INDUSTRY AND ECONOMICS (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

INTERNATIONAL COPPER ASSOCIATION SOUTHEAST ASIA (ICASEA)

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

Mr. Pierre Cazelles
Pierre.cazelles@copperalliance.asia

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@thaieei.com

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

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

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

Funded by the European Union

EuropeAid

SUSTAINABLE FREIGHT TRANSPORT AND LOGISTICS IN THE MEKONG REGION

THE CHALLENGE

Trucking is the dominant form of freight transport in the Greater Mekong Subregion/ GMS (approx. 80% of all tonnage), but efficiency remains a challenge. About 25% to 50% of all trips run empty, and the average fleet is over 10 years old (and much older in some countries). The upcoming ASEAN Economic Community single market in 2016 will lead to a significant increase of cross-border trade in goods and services. For countries like Cambodia, Lao PDR and Myanmar, this will open up opportunities for the freight and logistics sector to grow, at the same time SMEs in these countries will face high competition.

THE OBJECTIVES

The project aims at increasing sustainable freight transport and logistics in the Mekong Region mainly through energy efficiency and safety measures in at least 500 SMEs in Cambodia, Lao PDR, Myanmar, Vietnam (CLMV) and Thailand.

THE WAY FORWARD

- Increasing fuel efficiency and reducing emission mainly through defensive and eco-driving, technology changes and maintenance, freight brokerage, logistics synergies, and improved financial management of SMEs;
- Promoting safe transport for dangerous goods by implementing the existing ASEAN and GMS protocols based on the EU – Alternative Dispute Resolution (EU-ADR);
- Increasing access to finance to invest in more efficient, environmentally sound and safer technologies;
- Providing policy support and implementing customer awareness measures, such as standard and labelling, economic incentives, regulations and modal shift initiatives with the latter focusing on Thailand and Vietnam.

Duration *2/2016 – 1/2019*
Total budget *EUR 2,400,000 (EU Contribution: 90%)*

LEAD PARTNER

Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), *Germany*

PARTNERS

- Mekong Institute (MI), *Thailand*
- Greater Mekong Subregion Business Council (GMS-BC) / Greater Mekong Subregion Freight Transport Association (GMS-FRETA), *Lao PDR*

ASSOCIATES

- Asia Development Bank (ADB) – Greater Mekong Subregion, *Thailand*
- Federation of Thai Industries (FTI), *Thailand*
- Cambodia Freight Forwarder Association (CAMFFA), *Cambodia*
- Cambodia Trucking Association (CAMTA), *Cambodia*
- Myanmar International Freight Forwarders Association (MIFFA), *Myanmar*
- Green Freight Asia Network Limited (GFA), Singapore
- Vietnam Automobile Transportation Association (VATA), *Vietnam*

CONTACT DETAILS

Ms. Wilasinee Poonuchaphai
+66-2-661-9273
wilasinee.poonuchaphai@giz.de
GIZ - 193/63 Lake Rajada Office Complex,
16th floor, Bangkok 10110,
Thailand

DEUTSCHE GESELLSCHAFT FÜR INTERNATIONALE ZUSAMMENARBEIT (GIZ)

As the lead partner, GIZ is responsible for the overall project management, monitoring and evaluation as well as ensuring the communication and visibility.

Ms. Wilasinee Poonuchaphai
Wilasinee.poonuchaphai@giz.de

MEKONG INSTITUTE (MI)

In the project, MI provides technical inputs on curricula development and training module, and access to regional and national experts.

Mr. Madhuriya Kumar Dutta
dutta@mekonginstitute.org

GREATER MEKONG SUBREGION BUSINESS COUNCIL (GMS-BC) / GREATER MEKONG SUBREGION FREIGHT TRANSPORT ASSOCIATION (GMS-FRETA)

GMS-BC plays a role in providing policy advice, ensuring involvement of its member, and providing technical advice on curriculum and training development, and networking.

Mr. Oudet Souvannavong
oudet.scl@gmail.com

Funded by the European Union

EuropeAid

PROMOTING SUSTAINABLE CLEANER DEVELOPMENT THROUGH THE ESTABLISHMENT OF AN ASIAN CLEANTECH MSME FINANCING NETWORK (ACMFN)

THE CHALLENGE

The biggest challenge remains eliciting the interest of MSMEs in shifting to clean technology (cleantech), as well as those involved in the value chain. The MSMEs perceive cleantech as costly, and if they appreciate the return on investment of such project, it may take some time to recover. Improved understanding of cleantech would be important. However, lack of financial literacy and transparency by the MSMEs are also major issues on the demand side, which hamper further commitments by financial institutions which themselves lack awareness, technical capabilities as well as tailored financial products and co-investment opportunities.

THE OBJECTIVES

The project seeks to build and leverage a cleantech-financing ecosystem to spark improved access to finance for Asian cleantech MSMEs in order to enhance sustainable consumption and production (SCP) patterns in Asia. The project aims at enhancing the cleantech value chains and access to finance for MSMEs as well as the availability of cleantech-financing products by working with financial institutions (FIs).

THE WAY FORWARD

- Promoting cleantech innovation among 1,500 MSMEs and building the capacity of 400 MSMEs from high impact sectors in the target countries;
- Developing training and guidance materials, or a "Cleantech Innovation Toolbox," which will be available to all participating MSMEs;
- Creating a pool of trainers which will form sector specific advisory groups and provide follow-up support to the MSMEs;
- Providing financing advisory services to the selected 200 MSMEs;
- Establishing national matchmaking fora between MSMEs and FIs to facilitate the investment process and to build up new investment channels;
- Linking up with other existing initiatives or platforms, e.g. Sankalp Forum in India, CTI-PFAN, UNEP FI, or ADB's Clean Energy Forum;
- Creating awareness and knowledge among FIs by building their capacities to better understand the cleantech market potentials and to appraise these under a risk-mitigated environment;
- Organising regional marketplace conference to foster matchmaking, co-investing and risk-sharing between cleantech investors and investees.

Duration *1/2016 – 12/2020*
Total budget *EUR 1,872,565.00 (EU Contribution: 80%)*

LEAD PARTNER

Association of Development Financing Institutions in Asia and the Pacific (ADFIAP), *Philippines*

PARTNERS

- adelphi research, *Germany*
- The Association for Advancement of Small Business (PUPUK), *Indonesia*
- Confederation of Indian Industry (CII), *India*
- China Electronic Energy-saving Technologies Association, *China*

ASSOCIATE

Beijing Eco-Green Advisory Co. Ltd.

CONTACT DETAILS

Mr. Octavio B. Peralta
+63-2-8161672
obp@adfiap.org
2nd Floor, Skyland Plaza
Senator Gil Puyat Avenue
Makati City, 1200
Philippines

www.acmfn.com

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

As lead partner, ADFIAP is responsible in overall project management. It provides business development services on cleantech financial products and services for MSMEs and financial institutions.

Mr. Octavio B. Peralta
obp@adfiap.org

THE ASSOCIATION FOR ADVANCEMENT OF SMALL BUSINESS (PUPUK)

PUPUK is the project's national focal point in Indonesia. It is responsible for coordination and implementation of all project activities in the country.

Mr. Bastian Annas Saputra
bastian_as@pupuk.or.id

ADELPHI

adelphi is the project's lead technical partner. It provides technical capacities (knowledge and skills) on cleantech innovation and production and business advisory/ training development services.

Mr. Mirko Zürker
zuerker@adelphi.de

CONFEDERATION OF INDIAN INDUSTRY (CII)

CII is the project's national focal point in India. It is responsible for coordination and implementation of all project activities in the country.

Mr. P. V. Kiran Ananth Kiran.
ananth@cii.in

CHINA ELECTRONIC ENERGY-SAVING TECHNOLOGIES ASSOCIATION (CEESTA)

CEESTA is the national focal point in China. It is responsible for coordination and implementation of all project activities in the country.

Ms. Dongjing Yang
yangdongjing@me.com

Funded by the European Union

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.

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.

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

Mrs. Miranda
+62-21-7892489
miranda@hivos.or.id
Jl. Kemang Selatan XII No. 1,
Jakarta 12560
Indonesia

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. Miranda
miranda@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

Funded by the European Union

EuropeAid

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.

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_2 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.

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*

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
tonklagroup@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

Funded by the European Union

COMPLETED PROJECTS

2008-2015

EuropeAid

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 %)

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 (BFLLFEA), *Bangladesh*

ASSOCIATE

Bangladesh Tanners Association (BTA), *Bangladesh*

CONTACT DETAILS

Mr. Ivan Kral
+43-1-26026-3762
I.Kral@unido.org
United Nations Industrial Development Organization (UNIDO)
P.O.Box 300 Wagramer Str. 5
A.1400 Vienna
Austria

Funded by the European Union

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 long-term sustainability of tourism in the country.

THE OBJECTIVES

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

RESULTS ACHIEVED

- Environmental impact statement (EIS) database created after a comprehensive environmental baseline survey covering 160 tour operators, 221 guides, 134 hotels, 41 restaurants, 45 shops, 4 campsites and eco-lodges surveyed covering major tourist regions of the country;
- Sector reports to facilitate strategic decision making and planning now can be generated using the EIS. A carbon calculator specific and relevant to Bhutan is developed to measure carbon footprint for tourism products and individuals.
- More than 30 Champion members were identified as drivers of change, where companies received special training and one-to-one technical support.
- All sectors and entities wishing to acquire a carbon label and support are subject to calculate the carbon footprint of their products and services using the carbon calculator. The entities acquiring carbon label will be included in the Low Carbon products and services, receiving promotional benefits and low carbon branding.
- 20 low carbon products and services developed and launched at a major international tourism fair (ITB). Even by initial conservative survey of just 3 of the 20 products, the sale has already surpassed the project target of 5,000 units to be sold by end of project.

Duration 1/2012 – 6/2015
Total budget EUR 1,205,654.60 (EU Contribution: 90 %)

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
sonamdorje@gmail.com
Post Box 938, Doebum Lam
Thimphu – 11001
Bhutan

EuropeAid

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 project sought to promote economic prosperity and poverty reduction in Cambodia with reduced adverse environmental impact of SMEs in selected sectors. The specific objective was 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.

RESULTS ACHIEVED

- Identified viable product market combinations;
- Established partnerships with technology suppliers;
- Developed and provided business support packages for the different partner SMEs involved in the EE value chains;
- Mobilised access to finance for SMEs by identifying and building up partnerships with financial institutions.

Duration *1/2014 – 12/2015*
Total budget *EUR 1,996,196 (EU contribution: 90%)*

LEAD PARTNER

ETC Foundation, *Netherlands*

PARTNERS

- AdaPPPt, *Netherlands*
- RainWater Cambodia

CONTACT DETAILS

Mrs. Mayte de Vries
+855-23-966-150
m.de.vries@etcnl.nl
#10, Street 179,
Sangkat Tomnoup Teok,
Khan Chamkarmon,
Phnom Penh
Cambodia

Funded by the European Union

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 utilized as source of energy it 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.

THE OBJECTIVES

The project promoted sustainable production of milled rice through replication of existing WtE rice milling technologies, and sustainable consumption of rice. It sought 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.

RESULTS ACHIEVED

- The project established a training package through National Polytechnic Institute of Cambodia (NPIC) for rice millers, SMEs, local technology manufacturers as well as importers;
- The project worked on the supply and demand side by building capacity of 4-5 local SMEs manufacturing rice husk gasifiers (RHGs) and 120 rice millers as potential users. A local manufacturing facility was established to manufacture and develop a business unit, and a local technology provider was assigned to operate the facility;
- The project collaborated with Nexus and developed a revolving fund of which the objective is to positively impact the agrifood value chain through provision of affordable clean energy, and expectedly barriers and challenges will be overcome through partnerships with organisations in the agrifood sector.
- The project collaborated with the Ministry of Industry and Handicraft and Institute of Standards of Cambodia (ISC). Towards the end of the project, ISC produced an OHS Baseline Standard at The Work Place and a final draft for the National Standard of the Safety Manufacturing of RHG.

Duration *1/2012 – 12/2015*
Total budget *EUR 2,152,546 (EU Contribution: 89%)*

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. Dennis Barbian
+855-(0)-23-994-562
dbarbian@snvworld.org
#184, Street 217, 2nd floor of
POC's building,
Phnom Penh
Cambodia

EuropeAid

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 aimed at contributing 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 was 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^3 bamboo additionally processed, replacing 256,000 m^3 of timber.

Duration *1/2010 – 1/2014*
Total budget *EUR 2,467,869 (EU Contribution: 80%)*

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

Funded by the European Union

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.

THE OBJECTIVES

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

RESULTS ACHIEVED

- Improved sustainability situation and occupational health and safety (OHS) in 600 Chinese food processor SMEs using Design for Sustainability Method (D4S);
- Certified 80 f SMEs against the certification and eco/sustainable label;
- Conducted voluntary auditing programmes for evaluation against legal framework and Sustainability Conformity Model;
- Facilitated SME partnerships within food industry;
- Strengthened links between EU and China through a European Asian cluster and networking platform.

Duration *4/2013 – 6/2016*
Total budget *EUR 1.563.635,76 (EU Contribution: 80%)*

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 Tecnólogico de Zamudio, Edif. 103, 2 Planta, 48170, Zamudio, Bizkaia
Spain

EuropeAid

IMPROVING ENVIRONMENTAL AND SAFETY PERFORMANCE IN ELECTRICAL AND ELECTRONICS INDUSTRY IN CHINA

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.

THE OBJECTIVES

The project sought to assist industrial users of electric motor systems in switching to high-efficiency motor systems, thus reducing their electricity costs and CO_2 emissions by 1 million tons per year and it aimed at achieving 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_2 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 %)*

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
+86-10-58811132
zhangxin@cnis.gov.cn
No. 4 Road Zhi Chun,
Beijing, 100088
China

Funded by the European Union

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.

THE OBJECTIVES

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

RESULTS ACHIEVED

- Established a pool of EMAS skilled consultants that is able to meet market demand in the future;
- Developed and tested the only model of implementing EMAS Global under the current regime of the EMAS Directive;
- Six company sites in two Chinese provinces have been officially EMAS registered;
- Convinced industrial clusters in China about EMAS and to use EMAS-inspired elements in new instruments such as the Chinese Business Environmental Credit System;
- Generated 152 pilots in eight Chinese provinces, which demonstrated the usefulness of the EMAS-inspired approach for sustainable production.

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

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

EuropeAid

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 aimed at promoting sustainable production patterns in the electrical and electronics industries. By mobilising the private sector along with relevant public sector authorities, the project sought 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 Standardisation, *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

Funded by the European Union

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 sought 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 TOC 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%)*

LEAD PARTNER

International Copper Association Ltd. (ICA), *China*

PARTNERS

- China National Institute of Standardization (CNIS), *China*
- China Electricity Council (CEC), *China*
- China Electrical Equipment Industry Association (CEEIA), *China*
- Action Sustainable Development (ASD), *France*

CONTACT DETAILS

Mr. Philip Zhang
+86-10-68042450, ext. 203
philip.zhang@copperalliance.asia
66, Nan Li Shi Road,
Beijing, 100045
China

EuropeAid

IMPLEMENTING INDUSTRIAL SYMBIOSIS AND ENVIRONMENTAL MANAGEMENT SYSTEMS IN TIANJIN BINHAI NEW AREA

THE CHALLENGE

Tjanjin 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 aimed at 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 sought to facilitate material, by-product, energy, logistic exchange and knowledge transform among 800 SMEs to achieve sustainable production Tjanjin Binjai New Area (TBNA).

RESULTS ACHIEVED

- An industrial symbiosis (IS) network has been developed with 99 synergies among member companies, achieving a CO_2 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.

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

Duration *10/2009 – 10/2013*
Total budget *EUR 1,848,316 (EU contribution: 80%)*

Funded by the European Union

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.

THE OBJECTIVES

The project aimed at increasing 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 aimed 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 were accompanied and made transparent by a powerful online system.

RESULTS ACHIEVED

- Contributed to voluntary LEH cooperation agreements, signed by government and developers, and tied to financial subsidies through Ministry of Housing and Urban-Rural Development (MoHURD);
- Memoranda of understanding (MoU) were signed with 43 real-estate developers providing the project consortium with access to data and creating another communications channel, also providing developers with access to Chinese government subsidies;
- Prepared a sector report, outlining not just good practice examples but also highlighting how the Chinese focused on technical solutions while the Europeans focused on policy frameworks enabling technical solutions to develop.
- Published a comprehensive guidebook to energy efficiency in buildings and submitted it to MoHURD;
- Submitted a policy report to MoHURD for consideration in the creation of the next China's Five Year Plan.

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
info@wupperinst.org
Döppersberg 19,
42103 Wuppertal
Germany

Duration *2/2012 – 1/2015*
Total budget *EUR 1,488,255 (EU Contribution: 80%)*

EuropeAid

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-lifestage. 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.

THE OBJECTIVES

The project aimed at linking 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.

RESULTS ACHIEVED

- Established the Electronic Waste Tracking System (e-WTS) Central Office within China's National Solid Waste Management Centre (NSWMC) as central body;
- The e-WTS was included in the existing WTS for hazardous waste and thus it will be adapted and scaled-up;
- A business network was established by involving all stakeholders of the value-chain through the implementation of e-WTS and a Secondary Material Exchange Platform (SMEP);
- Strengthened the capacities of the target EEE producers on integrating concepts of Design for Recycling into the product designing, selecting of materials and technologies and production processes.

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

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
- Rijkswaterstaat – Ministry of Infrastructure and the Environment, *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

Funded by the European Union

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.

THE OBJECTIVES

The project sought 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.

RESULTS ACHIEVED

- Facilitated voluntary agreements between consumer associations, target supermarkets and SME suppliers;
- Conducted research focused on local people's attitude and willingness to buy 'green', the availability of sustainable products, and the quality of life and general awareness of sustainable consumption. Twenty-five per cent of consumers were concerned about price, and only 9% of consumers paid attention to SC and environmental issues;
- Established a Green Consumption School – a weekly voluntary awareness programme open to all citizens in Beijing and Tianjin. These community green consumption schools offered various training courses and workshops. More than 1500 participants had attended;
- 1,058 green supply contracts signed by SME suppliers and retailers;
- Conducted a survey among SME suppliers, which identified performance, technology, and raw material prices as suppliers' main constraints.

Duration *12/2011 – 11/2014*
Total budget *EUR 997,396 (EU Contribution: 80%)*

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
Zhangmingshuno2@hotmail.com
No.1, Zhanlanguan Road, 100044, Beijing
China

EuropeAid

SUSTAINABLE PUBLIC PROCUREMENT IN URBAN ADMINISTRATION IN CHINA

THE CHALLENGE

In the dynamic Chinese economy, the production of electrical and electronic equipment is increasing. 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 sought 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_2. This is the equivalent of the annual CO_2 emissions of 17,335 Chinese people in 2009.

Duration *12/2008 – 12/2011*
Total budget *EUR 917,450 (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 (TJPPO)

CONTACT DETAILS

Ms. Maike Bunse
+49-202-2492-261
maike.bunse@wupperinst.org
Döppersberg 19, 42103 Wuppertal
Germany

Funded by the European Union

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 sought 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

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_2 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 be invested in.

THE OBJECTIVES

The project aimed at improve energy efficiency in buildings produced by the Chinese construction industry in the Greater Shanghai region. It empowered the Chinese industry and decision-makers to conceive, design and apply energy efficiency measures throughout the life cycle of buildings. The project shared European experiences and best practices in energy efficiency (including materials, standards and applications), adjusting them to local climate and regulatory specificities.

RESULTS ACHIEVED

- Established a permanent "Sino-European Energy-Efficient Training and Research Centre" that replicates, extends and scales up the original pilot project;
- 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.

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

Duration *2/2009 – 7/2013*
Total budget *EUR 2,979,198 (EU Contribution: 80 %)*

Funded by the European Union

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.

THE OBJECTIVES

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

RESULTS ACHIEVED

- Developed, tested and published VA manual, which is now a key technical guideline for China adopting voluntary public-private partnership (PPP) in energy saving and emission reduction;
- 960 voluntary agreements (Vas) have been signed and are being implemented in the cities of Nanjing, Jingzhou and Changchun;
- Inclusion of VA in local environmental policies in the three cities;
- Implementation of the VAs has resulted in energy saving of about 200 PJ (target was 100 PJ), water saving of 180 million tonnes (target was 50 million tonnes), and reduction of CO_2 emission of at least 17 Mtonnes annually.

Duration *1/2012 – 12/2015*
Total budget *EUR 1,942,233 (EU Contribution: 80 %)*

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.va3china.com

EuropeAid

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.

THE OBJECTIVES

The project aimed at introducing 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.

RESULTS ACHIEVED

- Conducted resource efficiency(RE) training workshops for SMEs and provided on-site consulting support for implementation of low or no cost RE options;
- Demonstrated acid and rinse water recovery techniques;
- Organised two technology roundtables which facilitated SMEs and technology suppliers to identify measures to improve access of SMEs to RE technologies;
- Financial and other support to SMEs through policy dialogues, customer round tables, technology round tables;
- Sensitised 8 local banks of the potentials of RE technology investments. Information of financing options was shared with SMEs.
- Organised three regional and two national policy dialogues. Policy recommendations on technology transfer were shared with relevant stakeholders.

Duration *2/2012 – 1/2016*
Total budget *EUR 2,395,069.59 (EU Contribution: 80%)*

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

Funded by the European Union

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.

THE OBJECTIVES

The project enabled the adoption of sustainable environment and social business practices across selected foundry MSME clusters. It aimed at scaling up the capacity of business membership organization, and seeks to introduce aggregate reporting. Furthermore, the project aimed at establishing financial linkages and supports a conducive policy environment.

THE WAY FORWARD

- Fostered sustainable production through technical and non-technical measures;
- Built capacities of Business Membership Organisations (BMOs) for SCP;
- Introduced and facilitated Aggregate Sustainability Reporting among Cluster MSMEs;
- Enhanced access of MSMEs to credit through stronger linkages with Financial Institutions;
- Undertook policy advocacy and dissemination.

Duration *5/2012 – 4/2016*
Total budget *EUR 2,070,491 (EU Contribution: 80%)*

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

EuropeAid

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 aimed at creating 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 promoting 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
#06, 1st Floor, 2nd Cross, Vasantanagar,
Bangalore
India

Funded by the European Union

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 project sought 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 Texcraft 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 %)*

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
cathe.raj@gmail.com
18 Community Centre,
3rd Floor, East of Kailash
New Delhi – 110065
India

EuropeAid

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 sought 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.

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

Duration *1/2010 – 12/2013*
Total budget *EUR 2,004,045.37 (EU Contribution: 80%)*

Funded by the European Union

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 aimed 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.

RESULTS ACHIEVED

- Set up of 6 demonstration factories equipped with technology, which meets the national food standard regulation for hygiene and consumer safety;
- 590 producers had purchased new equipment used by 771 producers, with 181 producers renting equipment;
- Assisted 150 producers to obtain loans from financial institutions to acquire new equipment;
- Developed training materials for SMEs, including financial literacy, cost benefit analyses, a hygiene manual and a manual on eco-friendly tempeh production;
- Facilitated tofu and tempeh producers to gain the "P-IRT" (household food industry) certificate from the Ministry of Health local offices;
- Strengthened the market for hygienic and eco-friendly tofu and tempeh. The model factory of Rumah Tempe Indonesia (RTI), facilitated by the project, works with an intermediary and distributes fresh tempeh to 78 modern market stores in the Greater Jakarta and Bandung area.

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

Ms. Ana Suryana
asuryana@id.mercycorps.org
+62-21-78842686
Mercy Corps Indonesia
Graha STK, Jl. Taman Margasatwa No. 3
Jakarta Selatan 12550
Indonesia

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

EuropeAid

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.

THE OBJECTIVES

The project targeted by 2015, at least 300 SMEs in Indonesia's wood processing sector (about 10% of the total) were 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.

RESULTS ACHIEVED

- Undertook Timber Legality Assurance System (TLAS) and Chain of Custody (CoC) verification of the core group of 30 SMEs to increase trade of certified wood products;
- Reached out to and built the capacity of 300 wood processing SMEs and later to 2,500 SMEs;
- Created showcase of successful take-up of TLAS verification by SMEs;
- Distributed promotional materials on certificationsto all SME members of ASMINDO;
- Conducted TV advertising campaign for general public and media awareness raising trips for journalists;
- Linked up with public procurer for purchasing of legal and responsibly sourced timber from SMEs.

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

Duration *2/2013 – 7/2016*
Total budget *EUR 1,396,626 (EU Contribution: 78.15 %)*

Funded by the European Union

EAT GREENER – CHANGING FOOD CONSUMPTION PATTERNS – A SUSTAINABLE APPROACH TOWARDS ECONOMIC DEVELOPMENT IN LAO PDR

THE CHALLENGE

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.

THE OBJECTIVES

The project sought to boost national, ASEAN and European consumption of Lao sustainable food products (organic rice, tea, etc.). Increased demand for Lao greener processed food products would 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.

RESULTS ACHIEVED

- 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.

LEAD PARTNER
VZW Oxfam Solidariteit Solidarité ASBL, *Belgium*

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

ASSOCIATE
Oxfam Wereldwinkels vzw, *Belgium*

CONTACT DETAILS
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

Duration *4/2014 – 12/2015*
Total budget *EUR 1,238,069.18 (EU contribution: 89.84 %)*

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 appeares 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 / feedstock supply for bigger scale biomass commercialisation projects.

THE OBJECTIVES

The project sought 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_2eq/year inclusive of potential 2,800,000 tCO_2eq/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.

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

Duration *1/2010 – 1/2014*
Total budget *EUR 2,248,688.37 (EU contribution: 80 %)*

Funded by the European Union

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 aimed 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.

RESULTS ACHIEVED

- Developed carbon footprint labelling scheme which was based on international standards, such as the ISO series of standards on environmental management, GHG protocol of the World Resources Institute and PAS 2050 guidelines on carbon footprinting, ensuring global market acceptance;
- 13 companies had met the requirements of the audit process and received license to use the SIRIM carbon footprint logo;
- 10 product categories that have been identified / labelled for the pilot programme, namely wall coatings, sanitary ware, plumbing pipes, ceilings ceramic tiles, floor finishing, wall panels, masonry units, structural steel, architectural steel and architectural roofing provide impetus to other manufacturers to improve their environmental performance.

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 %)*

EuropeAid

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 sought 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.

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

Duration *12/2009 – 4/2012*
Total budget *EUR 933,257 (EU Contribution: 80 %)*

Funded by the European Union

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.

THE OBJECTIVES

The project sought to develop 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.

RESULTS ACHIEVED

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

LEAD PARTNER

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

PARTNERS

- National Association of Mongolian Agricultural Cooperatives (NAMAC), *Mongolia*
- Mongolian Nature and Environment Consortium (MNEC), *Mongolia*
- SEVEn, Stredisko 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

Duration *1/2013 – 5/2016*
Total budget *EUR 891,412 (EU Contribution: 80 %)*

EuropeAid

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 tackled these problems and challenges and it actively promoted and supported the sustainable production of garments "made in Myanmar" striving to increase the international competitiveness of SMEs. Furthermore the project set preconditions for replication towards other sectors.

RESULTS ACHIEVED

- Built the capacities of BMO which included developing strategy with MGMA, joint identification of areas for improvement, and the preparation of action plans in the identified areas;
- Organised workshops to create new SCP services (included matchmaking service offers between European buyers and Myanmar suppliers) for MGMA members;
- Improved awareness of SCP in the industry and banks. Participants from 30 banks were briefed on green financing and SCP. Garment entrepreneurs were shown the benefits from adopting quantitative SCP measures, through case studies.
- Facilitated more than 300 business linkages and new orders were received by the selected SMEs;
- Supported Myanmar garment factories to move from the cut-make-pack (CMP) business model to a full scale business (FOB) offering clients a larger range of services, to attract more European buyers;
- Trained 14 young engineers to further offer SCP consultancy 10 SCP consultants were employed by MGMA and given a hands-on training by international garment experts.

Duration *1/2013 – 12/2015*
Total budget *EUR 1,996,942.07 (EU Contribution: 90%)*

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

Funded by the European Union

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.

THE OBJECTIVES

The project aimed 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.

RESULTS ACHIEVED

- Established partnerships with the Department of Urban Development and Building Construction (DUDBC), Ministry of Urban Development, Ministry of Federal Affairs and Local Development (MoFALD) and three selected municipalities – Lalitpur, Pokhara and Dharan;
- Supported DUDBC in developing Nepal Green Building Guidelines which is currently under peer review;
- MoFALD has included Green Homes standard and norms in recently developed Building By-laws and Training Curricula for New Municipalities;
- The selected municipalities have developed incentive mechanisms to promote green housing in their plans and building byelaws. These include subsidy in adopting green components, subsidy in building permit fee, and acknowledgements of Green Home owners and SMEs;
- 35 SMEs producing hollow concrete blocks (HCB) in Pokhara and more than 60 SMEs working in solar energy business have improved their products and services. In Dharan, three SMEs started producing HCB, with two new SMEs are in process of establishing businesses. About 20 women groups started implementing solid waste management and roof-top farming.

Duration *1/2013 – 12/2015*
Total budget *EUR 1,015,525 (EU Contribution: 85 %)*

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 Organisation (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

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.

THE OBJECTIVES

The project sought 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 adressed;
- Lokta cutting and forest management training conducted – 1,195 lokta cutters benefi ted 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%)*

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

Funded by the European Union

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

THE CHALLENGE

The cotton and textiles sector accounts for 40% of Pakistan's total labour force and nearly 60% of exKatmandu 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_2 emission.

THE OBJECTIVES

The project aimed at promoting sustainable production and consumption 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 energy-saving building material.

RESULTS ACHIEVED

- In Nepal, construction services are mainly provided by small and medium-sized contractors. Through the project, roughly 6,000 construction specialists, masons, engineers, architects, small contractors and entrepreneurs have enhanced their skills in the application of well-tested sustainable construction technologies, such as concrete hollow block (CHB), micro-concrete roofing, reinforced cement concrete (RCC) door and window frames, and the use of natural round aggregate (NRA);
- Demonstrated the use and application of sustainable construction practices to consumers. The first behavioural changes have been notified; there was an increased use of locally available construction materials, such as NRA;
- Attracted private investment of roughly EUR 2.5 million for 22 new brick-producing VSBK shafts, creating more than 1500 green jobs;
- Organised an International Brick Symposium, involving nine countries, ranging from Peru to Thailand, from Germany to South Africa. The event facilitated knowledge exchange on VSBK technologies within and beyond the countries covered by the SWITCH-Asia programme.

Duration *1/2012 – 7/2015*
Total budget *EUR 2,146,750 (EU Contribution: 90%)*

LEAD PARTNER

Deutsche Management Akademie Niedersachsen (DMAN),
Germany

PARTNERS

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

CONTACT DETAILS

Mr. Harald Becker
+49-5141-973-221
hbecker@dman.de
Schlossplatz 1
29221 Celle
Germany

EuropeAid

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 it 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.

THE OBJECTIVES

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

RESULTS ACHIEVED

- Developed "Better Ginning Practices Guidelines" that are valuable for policymakers and other stakeholders for making policy recommendations and standards on national level;
- Carried out post implementation technical audit of 45 level I and 15 level II ginning factories. It showed improvements through optimisation of resource use leading to increased productivity, quality, and working conditions;
- Established cooperation with leading academic institutions in R&D activities;
- Built the capacity of 300 ginning SMEs (level III) in three regions. In order to achieve a sustained impact among the participating SMEs, the project incorporated a self-learning technique in the training materials;
- Increased the interest of ginners to become part of the Better Cotton System. More than 170 ginners requested to be registered in the system, to cater more than 90,000 Better Cotton farmers. Overall membership increased from 29 in 2012 to 112 in 2015.

Duration *1/2012 – 12/2015*
Total budget *EUR 1,979,286 (EU Contribution: 80%)*

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

Funded by the European Union

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 sought 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

EuropeAid

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.

THE OBJECTIVES

The project targeted, 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 implemented BWMPs, supported by a multi-stakeholder city level water partnership.

RESULTS ACHIEVED

- Implemented water and pollution reduction through BWMPs. In total, the project instigated an annual capital investment of EUR 1.03 million for the implementation of BWMPs in 35 SMEs resulting in annual economic savings of EUR 1.52 million;
- Established cooperation with many key stakeholders, i.e. various governmental institutions such as Environmental Protection Department (EPD) and Punjab Irrigation and Drainage Authority (PIDA); chamber of commerce (Lahore, Sialkot, Faisalabad, Karachi); industrial associations such as All Pakistan Textile Processing Mills Association (APTPMA) and Pakistan Tanneries Association (PTA); and multinational corporations such as Nestle Pakistan, Coca Cola Pakistan, and Levi's;
- Established multi-stakeholder city-wide partnership with a steering committee;
- Developed a business case which is being used as an instrument to encourage SMEs on a wider scale to adopt BWMPs;
- Developed guidelines for industrial sector to improve water efficiency and reduce the use of chemicals;
- As a result of the project, WWF-Pakistan was awarded the National Energy Globe Award in 2015. Energy Globe Awards is an online-campaign of UNESCO in cooperation with UNEP.

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

Duration *1/2013 – 12/2015*
Total budget *EUR 815,688 (EU Contribution: 80 %)*

Funded by the European Union

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 sought 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.

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

Duration *11/2009 – 5/2014*
Total budget *EUR 2,386,970 (EU Contribution: 80 %)*

EuropeAid

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 helped partners to switch to cleaner production processes. Three of Cebu's home and lifestyle industry sectors received 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 lifeststyle 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.

LEAD PARTNER

sequa gGmbh, *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

Duration *2/2010 – 9/2013*
Total budget *EUR 1,223,482 (EU Contribution: 80%)*

Funded by the European Union

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_2 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.

THE OBJECTIVES

The project aimed to raise awareness and to reduce the carbon footprint of energy services in the tourism sector by switching to using renewable energy sources. It also stimulated 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%)*

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

EuropeAid

ENHANCING ENVIRONMENTAL PERFORMANCE IN KEY SRI LANKAN EXPORT SECTORS

THE CHALLENGE

Poor environmental performance amongst enterprises in key Sri Lankan export sectors hamper busines across the value chain. Entrepeneurs 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 sought 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

Funded by the European Union

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 diffi culties 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.

THE OBJECTIVES

The project aimed at improving 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%)

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. Sathiacama
+94-11-5588897
smsathi@cccsolutions.org
48 Nawam Mawatha
Colombo 02
Sri Lanka

EuropeAid

GREENING SRI LANKAN HOTELS

THE CHALLENGE

Exporting cars to international markets requires the industry to also adopt international standards 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 sought to enhance the environmental performance of Sri Lankan hotels and to increase their market acceptance by promoting them as low carbon footprint green hotels and 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

Funded by the European Union

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

RESULTS ACHIEVED

- Trained 44 trainers/consultants who have provided consultation on resource and energy efficiency to 502 SMEs in the automotive sector;
- Over 1,000 measures were proposed and 590 measures have been implemented successfully;
- Trained 29 SMEs on ISO14001 and 26000, and Green Industry Mark of Thai Ministry of Industry;
- 78 SMEs are now qualified for the Green Industry Mark 2-3 level.
- 2 financial packages were offered by the SME Bank (Productivity Improvement Loan) and Kasikorn Bank (Energy Saving Guarantee Programme). Financing offers also came from ESCO service and subsidy programme of the government, e.g. 80/20 subsidy programme of Thai Ministry of Energy;
- Trained 112 bank officers on resource and energy efficiency and provided 52 SMEs with consultation on access to finance;
- Documented 452 good practices, out of which 350 cases were included in a handbook;
- Drafted a policy recommendation covering three main policies, i.e. Thai Automotive Industry Master, Thai Green Industry Mark, and 20 Year-Energy Efficiency Plan.

Duration 2/2012 – 1/2015
Total budget EUR 2,020,000 (EU Contribution: 80%)

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

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.

THE OBJECTIVES

The project sought 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 %)*

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

Funded by the European Union

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.

THE OBJECTIVES

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

RESULTS ACHIEVED

- Published a guidebook and training toolkit consisting of 75 tips from 8 “daily activity” clusters;
- Train 56 outstanding applicants from relevant organisations on sustainable consumption;
- Trained and equipped 32 trainers with knowledge on sustainable consumption using the GetGreen Vietnam approach, and skills to organise consumer groups and help consumers translate their awareness into actions;
- The project’s approach was implemented in two batches, each encompassed 26 consumers groups with 17 groups of office workers, 18 groups of students, 14 groups of communities; equivalent to 1,099 change agents empowered in the cities of Hanoi, Hochiminh City, Da Nang and Can Tho;
- Conducted 16 co-creation sessions involving customers and companies in the food, transportation, and tourism sectors Key achievements include an enterprise (Viet Lien) developing new packaging for their organic tea products.

Duration *4/2012 – 5/2015*
Total budget *EUR 1,368,070 (EU Contribution: 80 %)*

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

EuropeAid

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 promoted 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_2 emission is an estimate of 9,842,559 kg-CO2e 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 kgCO2e.

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

Funded by the European Union

switchasia

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_2 and releases O_2 and N_2. 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 JPDs will help the Jute industry in Bangladesh and India to grow, alleviate poverty and to ensure environmental sustainability.

THE OBJECTIVES

The project promoted economic prosperity and reduced poverty in Bangladesh and India by encouraging a switch to more environmentally sustainable practices in the jute industry. It promoted the sustainable production and consumption of eco-friendly Jute Diversified Products (JDPs) in Bangladesh and West-Bengal, India.

The project worked 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.

Duration *3/2010 – 2/2014*
Total budget *EUR 920,569 (EU Contribution: 80%)*

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

EuropeAid

LEAD PAINT ELIMINATION PROJECT

THE CHALLENGE

Nepal and Bhutan are among the least developed countries (LDC) in the world with 30.85% (2009 data) 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.

THE OBJECTIVES

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

RESULTS ACHIEVED

- At the conclusion of the project in June 2015, the market-leading brands in the seven countries had eliminated lead from decorative paints, followed by many smaller manufacturers;
- Contributed to new legislation in three of seven participating countries. Nepal and Philippines have established mandatory limits on lead in paint of 90 parts per million (ppm) total lead (dry weight). The Nepal standard requires information on paint can labels about lead concentrations. The Philippine paint regulation covers both industrial and decorative paints, making it the most rigorous regulation in the world In Sri Lanka, additional legislation demanding lead content labeling of paint cans was enacted to enforce the existing legislation. In the other four countries (India, Indonesia, Thailand, and Bangladesh), the proposed, mandatory regulations to control lead in paint are in development;
- Major paint producers in the Philippines and Sri Lanka are participating in the world's first, third party, Lead Safe Paint Certification Programme – a programme developed under the project.

LEAD PARTNER

International POPs Elimination Network (IPEN), *Sweden*

PARTNERS

- Arnika - Toxics and Waste Programme, *Czech Republic*
- Enviromental and Social Development Organisation (ESDO), Bangladesh
- Balifokus, *Indonesia*
- Centre for Public Health and Environmental Development (CEPHED), *Nepal*
- The Just Enviroment 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

Duration *12/2011 – 6/2015*
Total budget *EUR 1,798,563 (EU Contribution: 77.8%)*

Funded by the European Union

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%.

THE OBJECTIVES

The project contributed 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 aimed at reducing costs, lowering pollution, and improving health and safety performance in tourism and agro based Industrial sectors.

RESULTS ACHIEVED

- More than 40 local consultants and representatives from industries and academia have received intensive training on resource and energy efficiency, waste management, renewable energy and building energy performance;
- Ten Green Clubs (with 745 members in Bhutan and Nepal) have been established to promote the concept of environmental conservation;
- More than 200 MSMEs are receiving SEID's consultation services and most are benefitting from reduced operational costs and optimised resource efficiency, as well as improved working environments;
- Developed appropriate technology solutions such as solar water heaters for hotels, dust collection systems for beaten rice mills, and improved cook stoves for restaurants;
- Established strategic networks. Formal agreements have been signed with a number of selected academic, governmental and business institutions;
- Mainstreamed RE and RP in policies. Governmental bodies and business associations have been provided with practical suggestions on how to implement and/or revise the existing policy documents, such as hotel rating standards and a cleaner production policy paper in Nepal; and green building guidelines and a subsidy programme for renewable energy (RE) technology in Bhutan.

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

Duration *2/2012 – 11/2015*
Total budget *EUR 2,160,000 (EU Contribution: 90%)*

EuropeAid

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 aimed at 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 were 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);
- CO2 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, *Lao PDR*
- 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. Christopher G. Zamora
+62-21-527-9332
christopher@aseanenergy.org
Jl. HR Rasuna Said, Blok X-2 Kav 7-8,
Kuningan Jakarta
Indonesia

Funded by the European Union

SUSTAINABLE PRODUCTION INNOVATION IN VIETNAM, CAMBODIA AND LAO PDR

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.

THE OBJECTIVES

The project sought to improve innovative power of industry, and improve environmental and societal quality of products made in Vietnam, Cambodia and Laos by 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 %)

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, *Lao PDR*
- 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

EuropeAid

ESTABLISHING A SUSTAINABLE PRODUCTION SYSTEM FOR RATTAN PRODUCTS IN CAMBODIA, LAO PDR, 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 at establishing a sustainable rattan industry by introducing Cleaner Production, credible Chain-of-Custody certification and by establishing links to European and other international markets, delivered 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.

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), *Lao PDR*

CONTACT DETAILS

Ms. Sabine Gisch-Boie
+43-1-488-17-0
Sabine.Gisch-Boie@wwf.at

Mr. Thibault Ledecq
+85-6-2121-60-80
thibault.ledecq@wwfgreatermekong.org
Ottakringer Straße 114-116,
1160 Vienna
Austria

www.panda.org/rattan

Duration *1/2009 – 12/2011*
Total budget *EUR 2,417,694 (EU Contribution: 80 %)*

Funded by the European Union

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 wildfi res as a result of forest loss.

THE OBJECTIVES

The project sought to engage at least 600 SME wood processors in the target countries and enable them to apply sustainable production techniques and provide certified forest products to domestic and interational 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;
- Through out 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 %)*

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

EuropeAid

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 sought to improve the environmental performance of the batik industry in Indonesia and Malaysia and to create demand for eco-friendly batik products. This, in turn, provided incentives for cleaner production efforts among SMEs.

RESULTS ACHIEVED

- Training of trainers for local business support organisations on environmental oriented cost management, good housekeeping, 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

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

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switchasia
PROGRAMME

WWW.SWITCH-ASIA.EU

EU SWITCH-Asia Programme

@NetworkFacility

SWITCH-Asia group

SWITCH Asia channel

network.facility@scp-centre.org

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

SWITCH-ASIA CONTACTS

European Union Delegations
http://eeas.europa.eu/delegations/web_en.htm

SWITCH-Asia Network Facility
network.facility@scp-centre.org

SWITCH-Asia Policy Support Component (Regional Part)
switch.psc@unep.org

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