



Mainstreaming coherent and effective sustainable consumption and production policies, including through circular economy models: Best practices and recommendations

A project funded by the European Commission



Online consultations with Member States from the Asia Pacific region
1400-1530 ICT, September 16, 2020

Agenda

2.00 pm – 2.05 pm: Introduction on the mandate of the UNEA-4 Resolution on SCP, and on the key components of the follow-up (*Claire Thiebault, Economy Division, UNEP*)

2.05 pm – 2.10 pm: Presentation of the consultation objectives and key questions (*Claire Thiebault, Economy Division, UNEP*)

2.10 pm – 2.25 pm: Status overview of the inventory of product policies (*Prof. Shabbir H. Gheewala*) and deep dive: product policies in Thailand (*Prof. Thumrongrut Mungcharoen*)

2.25 pm – 2.35 pm: Status overview of the collection of examples of innovative design practices (*Prof. Shabbir H. Gheewala, JGSEE-KMUTT*)

2.35 pm – 3.20 pm: Interactive discussion

3.20 pm – 3.30 pm: Closure and next steps

Support the implementation of the UNEA-4 resolution on SCP

UNEP/EA.4/RES.1 on Innovative pathways to achieve sustainable consumption and production

Operative paragraph 15 requests “the Executive Director to submit a report providing an overview of best practices, including their impact on the design of products and services, minimizing harmful environmental impacts, and coherent product policies to decouple economic growth from environmental degradation through sustainable consumption and production, and providing recommendations for consideration by the Environment Assembly at its fifth session”

Key components of the follow-up to the Resolution 1 on SCP

Deliverables to inform UNEA-5 discussions

- 1. A global inventory of coherent product-policies** to decouple economic growth from environmental degradation through sustainable consumption and production;
- 2. Collection of good examples of design practices of products/services and their impact**, which minimize harmful environmental impacts;
- 3. Formulation of recommendations** on the potential of coherent product-policies and innovative design practices of products & services to support the transition to sustainable consumption and production – in view of informing UNEA-5 discussions.

Definition of ‘product policies’

“**Product policies**” refer to the policy instruments which aim at **minimizing the negative impacts of a product throughout its lifecycle** (i.e. during design, extraction of natural resources, production, distribution, use, end-of-use).

Product policies include policy instruments on:

- ✓ extraction of natural resources,
- ✓ eco-design, green technology, use of chemicals, industrial symbiosis,
- ✓ consumer information, eco-labels, sustainable/green public procurement,
- ✓ waste management, extended producer responsibility schemes, single-use products ban,
- ✓ and any other policy supporting driving the demand and/or supply sides towards more sustainability.

Product policies encompass both voluntary and mandatory instruments.

Key consultation questions

For interactive discussion

(1) **Product policies**

How **product policies** in your country have been instrumental to preserve the environment?

What are the enabling conditions for higher impact of product policies?

How to create further coherence among product policies?

(2) **Innovative design practices**

How is your country performing in identifying and taking up innovative **design practices of products/services**, which minimize harmful environmental impacts?

What are the requirements to implement, replicate and scale up such design practices?

(3) **Role of the international community**

What role should UNEP, the UN system and the wider international community play in addressing gaps and challenges highlighted during the above discussions?

Feedback options

- A. Share details on your **national product policies**:
 - i. Fill out the online questionnaire: [Click here to access the questionnaire](#)
 - ii. Share details and/or relevant reports by email with Prof. Shabbir H. Gheewala, JGSEE-KMUTT shabbirg@hotmail.com; scpasiapacific@gmail.com

- B. Share **good examples of design practices**, and send supporting material/link/contact details to Prof. Shabbir H. Gheewala, JGSEE-KMUTT, shabbirg@hotmail.com; scpasiapacific@gmail.com

- C. Submit **written inputs to the key consultation questions**: Claire Thiebault, Economy Division, Claire.Thiebault@un.org; Dr. Mushtaq Ahmed Memon, UNEP, Asia-Pacific Regional Office, memon@un.org

Status overview of the inventory of product policies (1/3)

Information collected through online questionnaire, bilateral interviews, literature review

- 15 countries including Brunei Darussalam, Cambodia, Indonesia, Iran, Japan, Korea, Laos, Mongolia, Myanmar, Palau, Philippines, Singapore, Sri Lanka, Thailand and Vietnam have participated in the online survey.
- Among the listed countries, Brunei Darussalam, Laos, Mongolia, Philippines and Palau have reported that comprehensive product policies do not exist or are in the developing stage.
- Some countries adopted waste management policy instruments. For example; Singapore's Zero Waste Master plan outlines Singapore's strategies to reuse and recycle resources, and to produce and consume sustainably under the Resource Sustainability Act 2019 focus on electronic wastes and food waste.
- Some other countries adopted sectoral approach. For example; Indonesia has been promoting the standards, environmental labels and consumer information on paper product and developing regulations on plastic use.

Status overview of the inventory of product policies (2/3)

Information collected through online questionnaire, bilateral interviews, literature review

Japan

- Basic Plan for Establishing a **Sound Material-Cycle Society in Japan** aims to reduce the environmental impacts from products and services under waste management and public cleansing act and promotion of effective utilization of resource act which includes:-
 - Electronic, food, construction waste recycling and end of life vehicles laws
 - Bottle collection connected with Electric Money system etc.

Korea

- The first Action Plan for Promotion of Purchase of Green Products (2006-2010) focused on the implementation of green procurement in the public sector using **eco-labelling** as the principal tool.
- The second Action Plan (2011-2015) was established to raise awareness on sustainable lifestyles and boost green consumption among general consumers, introducing the **Green Credit Card and green store certification as new instruments**.
- The third Action Plan (2016-2020) covers various policy instruments including **GPP, eco-labelling, Green Credit Cards and Green Store Certification**. The new goal is to increase the purchase of green products in the public sector, stipulating a target of at least 60% of GPP by 2020.

Status overview of the inventory of product policies (3/3)

Information collected through online questionnaire, bilateral interviews, literature review

- **Vietnam** – Under the umbrella of National action plan on SCP Vietnam has developed several plans, programs, strategies, regulations. For example,
 - Regulations on the Recovery and Processing Waste Products
 - Regulation on Scrap Import in Border
 - Vietnam Green Label criteria for products: batteries, photocopiers, LED bulbs and LED modules for general lighting (2017)

Policy in pipeline: an overarching greening distribution system and develop supply chain of sustainable products (i.e. apply cleaner production, energy saving and efficient production systems and policies to encourage investment in distribution system to sustainable products)

- **India** - The Ministry of Environment Forests and Climate Change has formulated the **Draft National Policy on Resource Efficiency on July 2019**, which is expected to serve this purpose through some proposed regulatory instruments and market based incentives and disincentives such as:
 - Eco-mark scheme
 - Deliberation on strengthening and implementation of EPR
 - Deliberation on regulatory instrument (tax/ban on disposal to landfill) and Green Public Procurement

Deep dive: product policies in Thailand (1/8)

Overview of product policies in place, lessons learned

SCO
THAI SCP NETWORK

Thai SCP Network
(established since 25 September 2018)

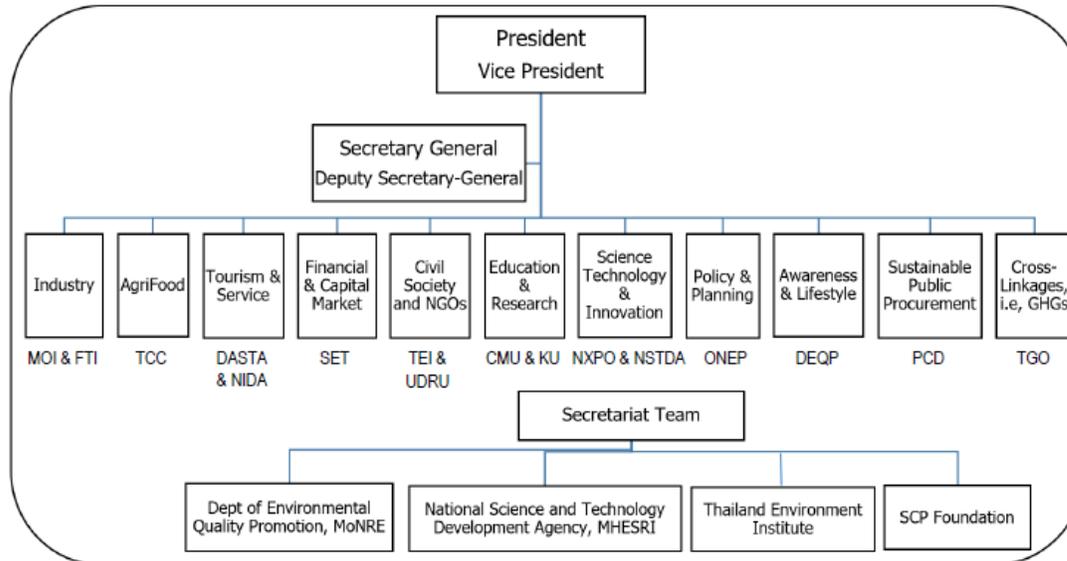
by **Thumrongrut Mungcharoen (Rut)**
*Board Member, APRSCP &
Secretary General, Thai SCP Network*

Logos of member institutions: NSTDA, MHEST, TEI, APRSCP, and various Thai universities and research centers.

Deep dive: product policies in Thailand (2/8)

Overview of product policies in place, lessons learned

Organization Chart of Thai SCP Network



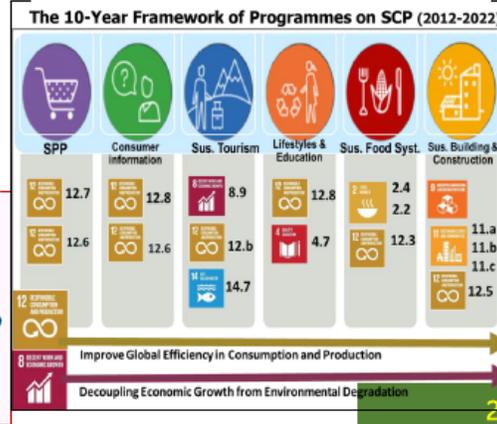
Goal: Support implementation of Thai SCP Roadmap 2017-2036 (update to 2037)
Vision → Strong network in ASEAN with sufficiency economy & social innovation
Objectives of network:

- collect, share, and disseminate knowledge, opinion, and suggestion about SCP
- be network of SCP information and collaborate with national and international organizations.

Collaboration
 Thai → ASEAN → Global



Global: One Planet Network



Deep dive: product policies in Thailand (3/8)

Overview of product policies in place, lessons learned



Deep dive: product policies in Thailand (4/8)

Overview of product policies in place, lessons learned

Support Green (Products + Services + Orgs)

LC-based Product: Carbon Footprint Initiatives: TGO (& alliances)
CFP pilot project: 23 companies/43 products (2009)



Major Accomplishment of CFP program

- National CFP guideline, Local CFP experts, CFP label certified
- 4,216 CFP products certified from 616 companies (@ May, 2020)
- 91+6 listed consultants and 47+4 registered verifiers

CFO (initiated in 2010) → 12 pilot orgs. + National CFO guideline + local CFO experts
 Now: 535 CFO organizations certified & 11 registered verification entities

CFR (initiated in 2014) → 601 products certified (from 93 companies)

CoolMode (Low C Textile products) → 143 products (32 companies)

C-Offset & C-Neutral programs

Thailand Eco-products Directory



1st Eco-Products Directory 2009 (450 products/services)

2nd Eco-Products Directory 2011 (1,108 products/services)

3rd Eco-Products Directory 2013 (6,094 products/services)

4th Eco-Products Directory 2015 (9,686 products/services)

Now available online (as of 2018): **15,055 products/services**

Logos: THAI ECO PRODUCTS, MITEC

Certification Schemes in Thailand

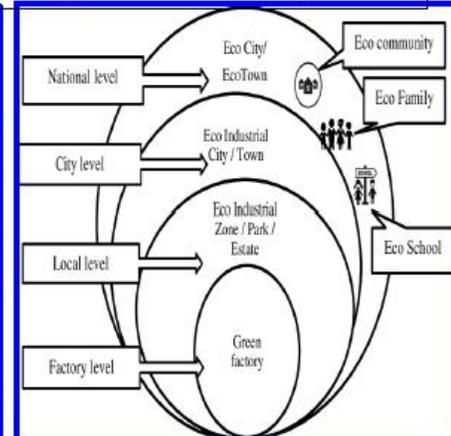
Govt. MoNRE DEQP (all "G"), TGO (CFP, CFO, Cool mode, C-neutral, C-offset), PCD (GPP)
MOI (GI marks, Eco-Industrial Park, Eco town)
NGO TEI (Green label, C reduction label)
FTI (WF label, Eco-Factory)
TGBI (Green building)
Green leaf foundation (Green leaf hotel)
Private: SCG ecovalue, Green for life, Green heart)

Eco Factory Certification Scheme
 by FTI (in collaboration with MOI, IEAT)

Sustainable Development

Eco Efficiency		Social Outcome / Impact	
1. Raw Materials	7. Water and Wastewater	13. Income distribution to Community	3
2. Energy	8. Greenhouse Gases		
3. Transportation & Logistics	9. Air Emissions	14. Co-existence with Community	2
4. Green Supply Chain	10. Solid Waste		
5. Green Area	11. Safety & Occupational Health		
6. Chemical & Haz Sub Management	12. Biodiversity		
GI 3 / ISO 14001 / EMS for SMEs / No complaint within 1 year			1

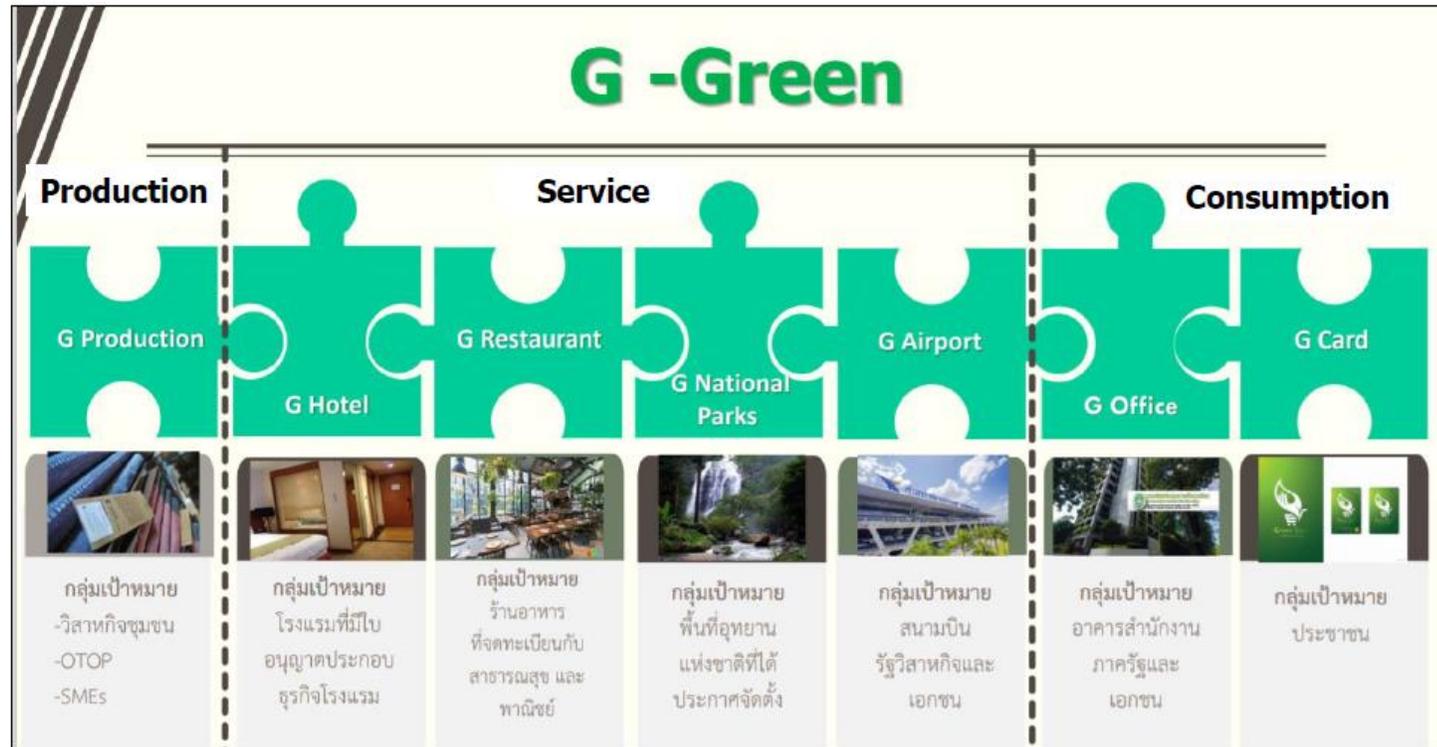
Criteria: 1 = basic, 2 = standard, 3 = continuous improvement



Deep dive: product policies in Thailand (5/8)

Overview of product policies in place, lessons learned

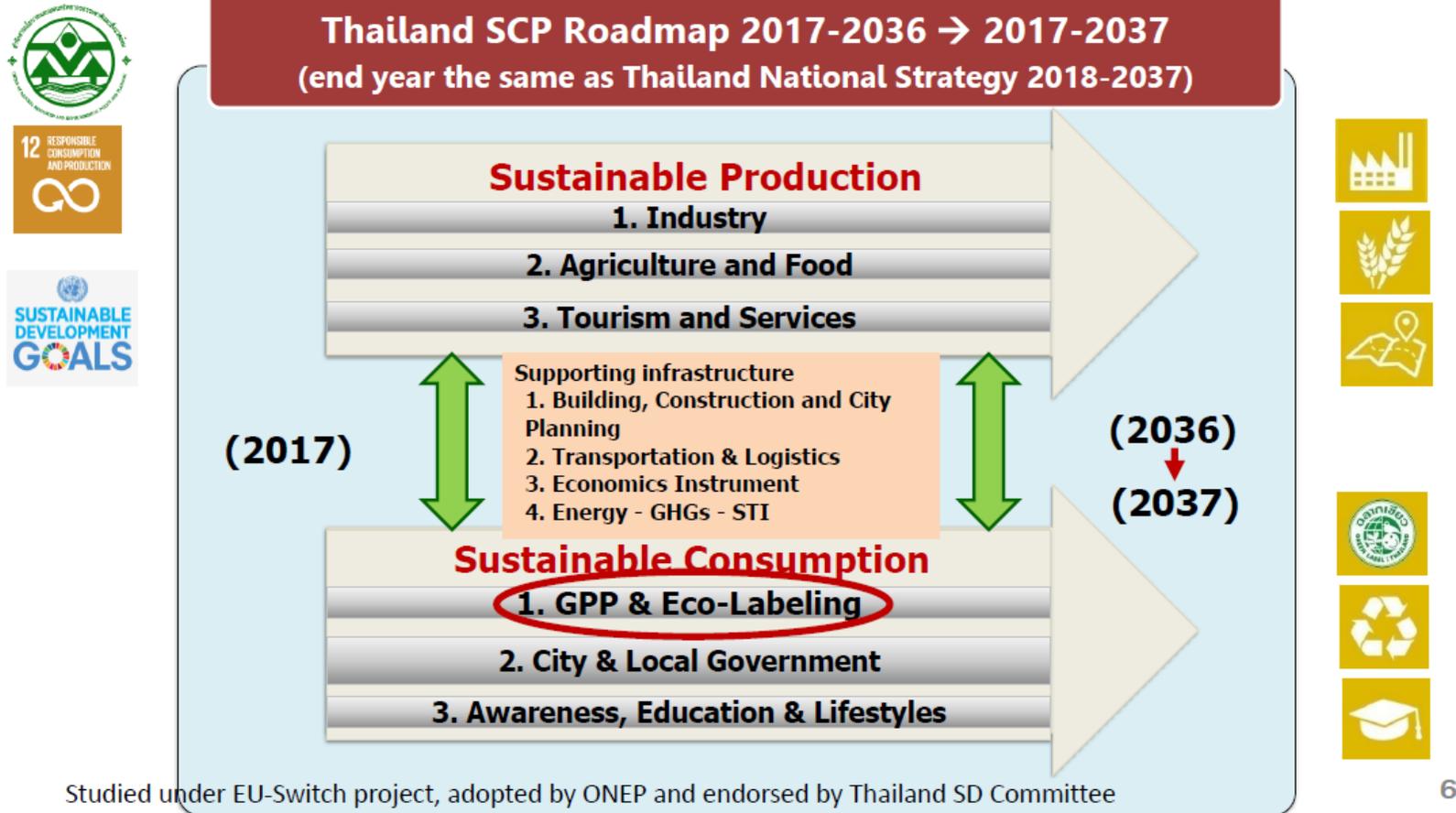
DEQP Activities to promote Green Products and Services



5

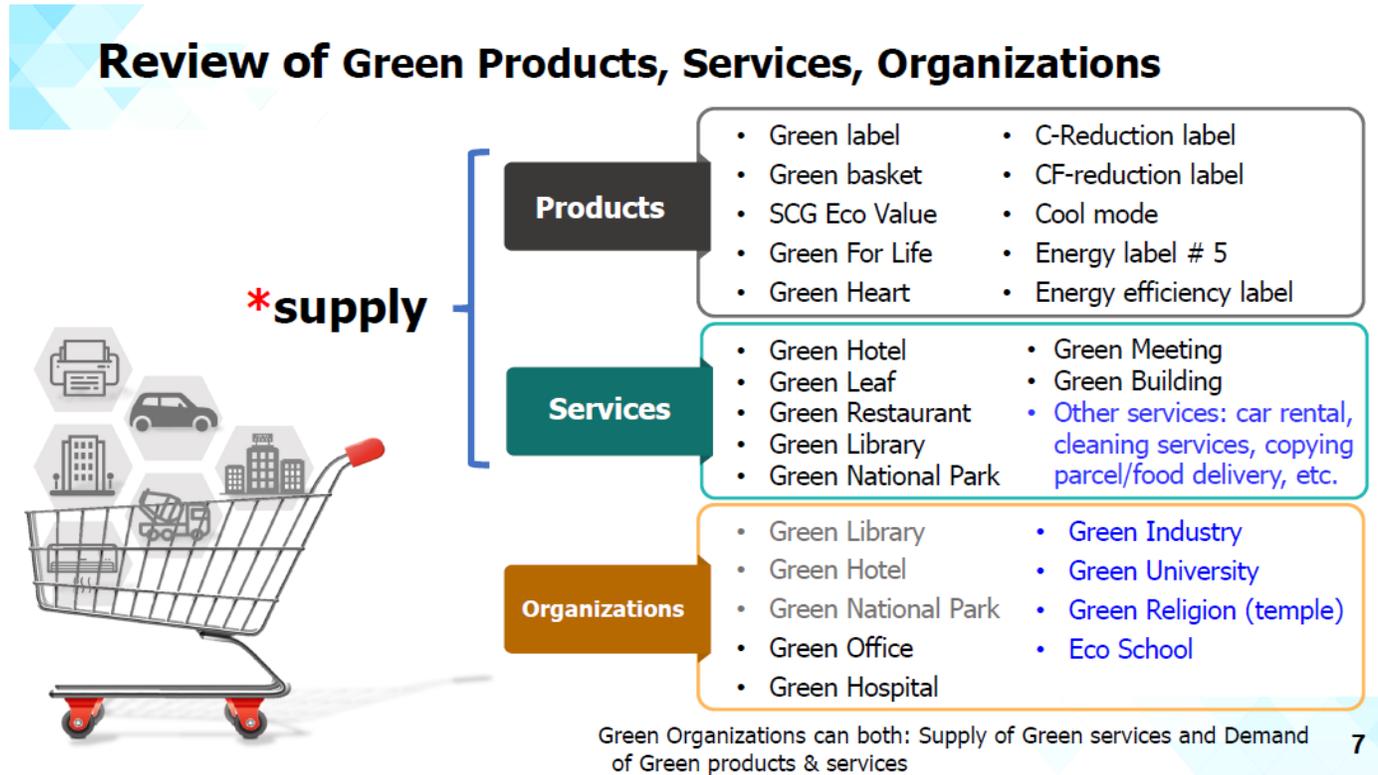
Deep dive: product policies in Thailand (6/8)

Overview of product policies in place, lessons learned



Deep dive: product policies in Thailand (7/8)

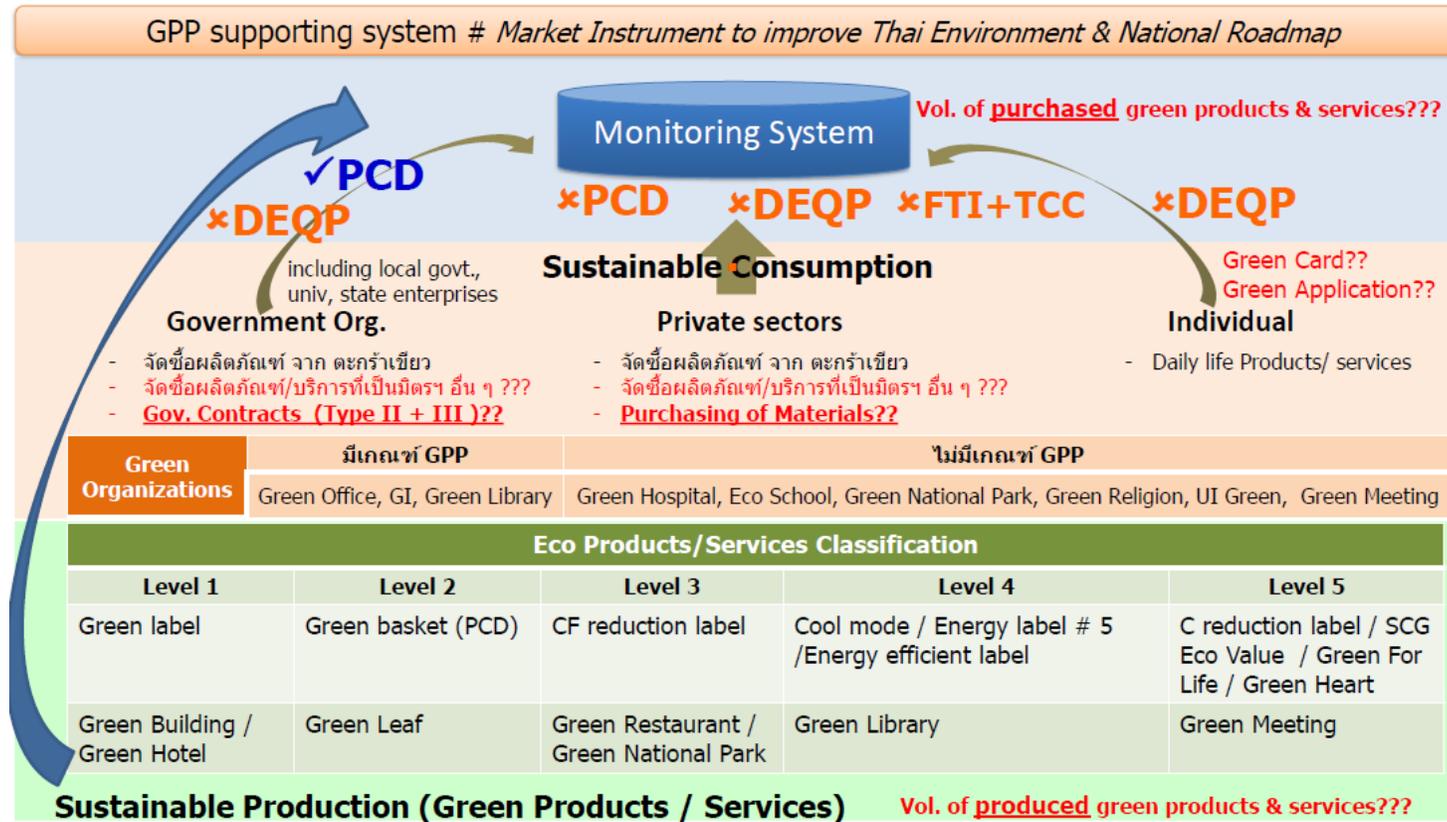
Overview of product policies in place, lessons learned



***Please do not cite this information as it has to be finalised!**

Deep dive: product policies in Thailand (8/8)

Overview of product policies in place, lessons learned



*Please do not cite this information as it has to be finalised!

Overview of good examples of design practices in the region

Country	Organization	Title	Short description	Sector
Thailand	Fuji Xerox Eco-Manufacturing Ltd	Fuji Xerox Integrated Recycling	Manufacturing the refurbished products from the used products	Electronics; E-waste
Pakistan	Al-Rahim Textile Industries (ATI)	Zero Wastewater Discharge	Conservation of water resources and reducing pollution of water bodies Process water consumption was reduced by 18% and around 60-65% of the wastewater was treated and re-used via treatment with reverse osmosis membranes.	Textile
China	Wynn Resorts Holdings	Sustainability Performance	Using clean energy, reducing energy consumption, waste reduction, GHG reduction, and participating in social welfare activities.	Tourism; hospitality; food
India	Namma Auto	Namma Auto Project	Scaling up of an integrated model of sustainable auto-rickshaw transport	Transportation

Design for recyclability of the office copier by Fuji Xerox Eco-Manufacturing, Thailand

- Fuji Xerox Integrated Recycling System – manufacturing the refurbished products with the same quality standards as new products
- Inverse manufacturing system
 - Life cycle planning
 - Reuse/ recycle design
 - Environmental assessment
- Closed loop system (reuse/recycle of parts and materials)
- Zero emission (zero landfill, no pollution, and zero illegal dumping)

Interactive discussion

Next steps & closure

Submit written inputs to formulate recommendations until September 30th to:

- Dr. Mushtaq Ahmed Memon, Regional Coordinator for Resource Efficiency at UNEP, Asia-Pacific Regional Office- Bangkok, Thailand, memon@un.org
- Claire Thiebault, Associate Programme Officer, Economy Division, Claire.Thiebault@un.org
- Prof. Shabbir H. Gheewala, The Joint Graduate School of Energy and Environment (JGSEE), King Mongkut's University of Technology Thonburi, Bangkok, Thailand, shabbirg@hotmail.com; scpasiapacific@gmail.com

Share inputs on national product policies and good examples of design practices until October 30th to Prof. Shabbir H. Gheewala, JGSEE-KMUTT shabbirg@hotmail.com; scpasiapacific@gmail.com

Thank you for your participation



Mushtaq Memon
UNEP Asia Pacific Regional Office
memon@un.org

Claire Thiebault
UNEP Economy Division
claire.thiebault@un.org

Prof. Shabbir H. Gheewala
JGSEE-KMUTT
shabbirg@hotmail.com

United Nations Avenue, Gigiri
PO Box 30552 – 00100 GPO Nairobi, Kenya

www.unep.org