Korea's Green Public Procurement System and Asia Pacific GPP Network

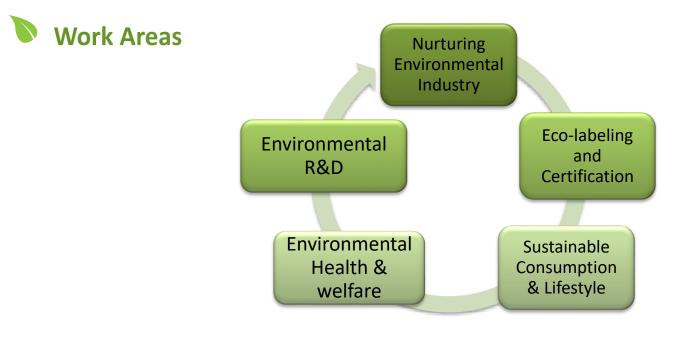
December 11, 2019.



Korea Environmental Industry & Technology Institute

KEITI is a quasi-government organization affiliated with the Korean Ministry of Environment

Our Mission is to contribute to sustainable development through developing eco-technology, nurturing environmental industry, safeguarding environmental health, and promoting eco-friendly consumption and lifestyle



International Cooperation



Sustainable

Advisory Member

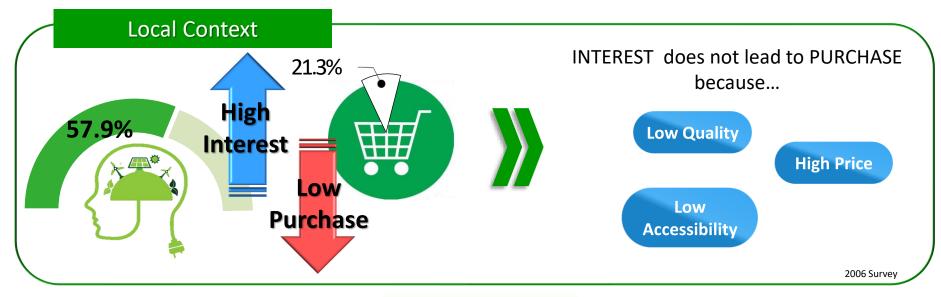


Part 1 Korea's Green Public Procurement Sy

Move toward Sustainable Consumption & Production



Move toward Sustainable Consumption & Production



GOVERNMENT's ROLE is Vital.

Sustainable Consumption Policy Sustainable Sustainable Consumption Policy Green Public Procurement Green Store Green Credit Card Green Credit Card

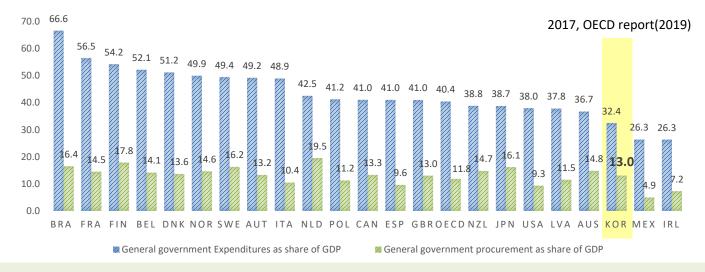
Demands

Sustainable Production Policy

Supply

- ✓ Green Company
- Green-Up Program
- Eco Design Program

Rationale for Green Public Procurement Policy



Government procurement accounts for approximately 12% of national GDP.

With its purchasing power,

the government can create demands on green products, further DRIVE the transformation of the sustainable market.



History of GPP policies in Korea

- Launched Korean Eco-label programme in 1992 (
 - Initiated by MoE, based on Regulations on operation of Eco-labelling programme
- Enforced the Acts on Development of and Support for Environmental Technology by MoE in 1994
 - Recommends public institutions to preferentially purchase green products (products awarded EL or GR mark)

Korea Eco-Labe

- Enforced the Act on Encouragement of Purchase of Environment-friendly Products in 2005 (Renamed as the Act on Promotion of Purchase of Green Product in 2012)
 - Obliges public institutions to mandatorily purchase green products; develop and submit GPP plans and performance records
 - Provides a legal ground to establish Korea Eco-product Institute (former KEITI)



Act on Promotion of Purchase of Green Products

• Public institutions' (approx. 30,000) obligation

- Purchase green products
- Submit and publish an implementation plan for GPP with self-defined targets and performance records on an annual basis
- Definition of Green Products



- O Ministry of Environment and KEITI are in charge of
 - Collating GPP plan and records, monitor and evaluate the GPP results
 - Formulating **a master plan for GPP** every five years
 - Annually **establishing and notifying guidelines for GPP** for the following year
 - Requesting Public Procurement Service to take measures necessary for encouraging GPP



Integrated Approach of GPP and EL

Green Products defined by the Act on Promotion of Green Product Purchase

- Certified or Meet the criteria set either by the Korea Eco-Label or the GR Mark
- Meet other environmental standards set by MOE in consultation with the relevant ministries

	Korea Eco-Label Eco-Label	Good Recycled Mark	
Product groups	165 categories including office equipment, construction materials	11 categories including waste paper, glass	
Number of Products	4,210 companies, 16,130 products (As of October 2019)	191 companies,220 products(As of October 2019)	
Certification Authority	Ministry of Environment	Ministry of Trade, Industry and Energy	
Website	http://greenproduct.go.kr	http://buygr.or.kr	



Non-exhaustive list of Green Products









Non-exhaustive list of Green Products









Working mechanism of GPP in Korea

Mistry of Environment & Korea Environmental Industry and Technology Institute

- Collate GPP plan and records
- Monitor and Evaluate the GPP result
- Establish mater plan for promoting GPP
- Establish guidelines and provide training

Public Procurement Service

NON DE OFFICE

Request to purchase green products

Subrit GR records

- Expand foundation for electronic procurement of green products
- Designate green products as exemplary procurement goods

Supply Green Products via E-procurement System(KONEPS)

Procure Green Products via E-procurement System(KONEPS)

Provide training & Evaluate

Ministry of the Interior and Safety & Ministry of Strategy

and Finance

Reflect the GPP records to performance assessment

Public Institutions

- Establish and submit implementation plan & GPP records to MoE
- Implement GPP
- Designate GPP official

Submit

the evaluation

score

 Establish & implement municipal ordinances for GPP



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How to Procure Green Products

Online procurement of green products is possible at PPS shopping mall and Green Market



<Online Shopping mall run by PPS> http://shopping.g2b.go.kr



<Online Shopping mall run by private company> http://shop.greenproduct.go.kr



How to monitor GPP



<Green Public Procurement Information System> http://gd.greenproduct.go.kr

나라장터 국가종합전자조달 통합검색 ~ 나라장터 소개 인증서 등록 입찰정보 🚿 수요기관 조달업체 신규이용자 등록 🔍 입찰공고검색 조달청계약요청현황 계약현황 견적요청검색 07:00 ~ 20:00 사이에는 검색기간을 공고게시입자 최대 6개월, 개함일자 최대 6개월 까지 가능합니다.(토,일요일 및 공휴일 제외) 전체 🗸 공고명 업무구분 공고/개찰일 공고일 🔽 2018/02/25 🛗 ~ 2018/03/27 🛗 🔿 최근1개월 🔿 최근3개월 🔿 최근6개월 직 참가제한지역 전체 기관명 ● 공고기관 ○ 수요기관 검색 공고번호 검색 자세한 검색을 원하시면 🛁 나라장터서비스 기관별 공지사항 공지사항 공지사항 더보기 부가서비스 표준연계서비스 조달수수료 「2018년 조달청 시설공사 원가계산 제비율 2018/03/27 가격정보 일반단가계약 시중거래물품 [알림] 나라장터 시스템 작업에 따른 서비스 2018/03/27 법령조회 🗗 훈령 🗗 계약예규 🗗 고시 🗗 국가계약 법규해석 전문가 채용 공고 2018/03/23 계약법규 해석조회 🗹 부정당제재정보공개 🗹 조달청 무기계약 근로자 채용 공고 2018/03/23 계약규정검색(한)계약과정통합공개(한) · 기간제 근로자 채용 공고 2018/03/22 업종DB 및 근거법규 🖓 정부불용품매각정보 🖗 나라장터관련사이트 1.7 조달청 종합쇼핑몰 벤처니라 하도급지킴이 누리강터 목록정보 물품관리 국유재산 공사원가계산 온통조달 e-발주지원 공공조달포털 조달정보개방 나라장터알림광장 < > 제안게시판 사이트립크 나라장터 안전 입찰서비스 공동구매' 서비스 안내 다운로드 (바로가기) ITC Procurement M

<Korea On-line E-Procurement System> http://www.g2b.go.kr

- Collate and monitor the implementation plan and record for GPP, relating with Korea Online e-Procurement System(KONEPS)
- Analyze the reason why public entities didn't purchase the green products
- Public institutions should justify if the green purchase record has increased from the previous year by ≥ 50% or decreased by ≤ 30%



GPP Support Measures

Green Products Information Platform

- Main source of information for GPP in Korea
- Catalogue of green products updated every month
- GPP guidelines, Best practices, and GPP results reports
- Website : http://www.greenproduct.go.kr/



Sharing Best Practices

Annual workshops to exchange best practices

GPP Guidelines and Training

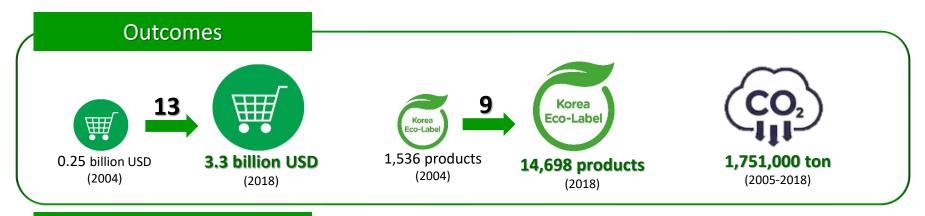
- (Guidelines) Purpose, legal basis, target org., working mechanism of GPP
- Standard Ordinance for local and provincial government(2006) → 99% of local and provincial gov. follow
- Annual nationwide training offered from November to December/ March every year

Financial Incentives

- GPP as a part of performance indicators of local gov., (local) public enterprise and public org.
- Based on the annual GPP records
- KEITI evaluates based on Percentage of green purchases



Outcomes and Evaluation

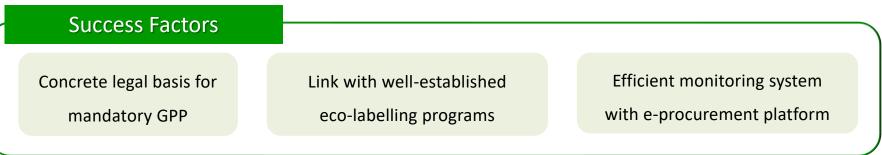


International Recognition

"Korea's well-established GPP system is recognized as an example of best practice among OECD countries. GPP in Korea, which relies on a strong eco-label foundation, received a boost in 2005 when the Act made it obligatory. Reporting data are centralized online · · · linked with the PPS's e-procurement system, · · · ."

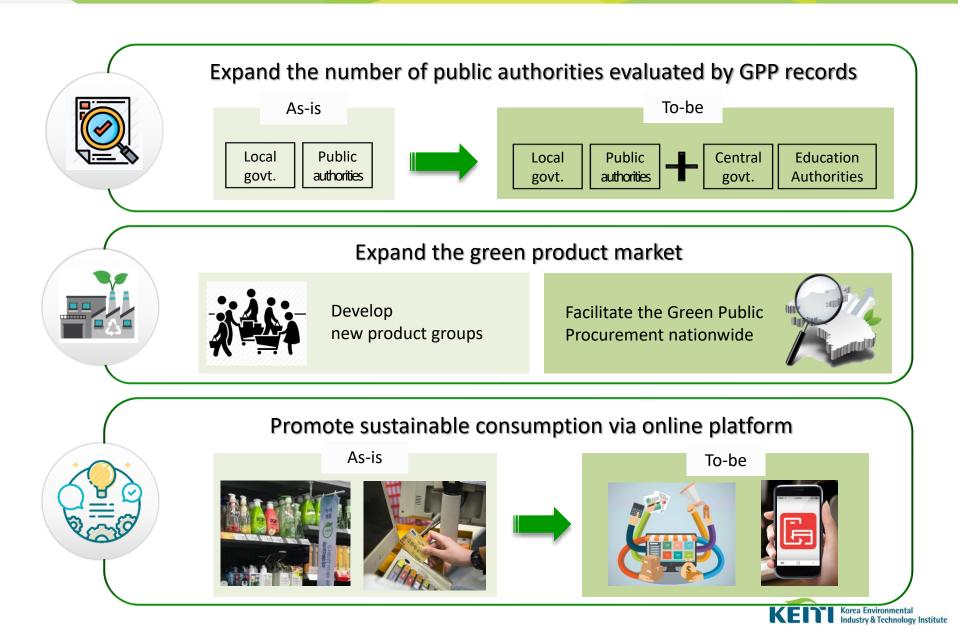
- OECD(2017), OECD Environmental Performance Review of Korea





Korea Environmental Industry & Technology Institute

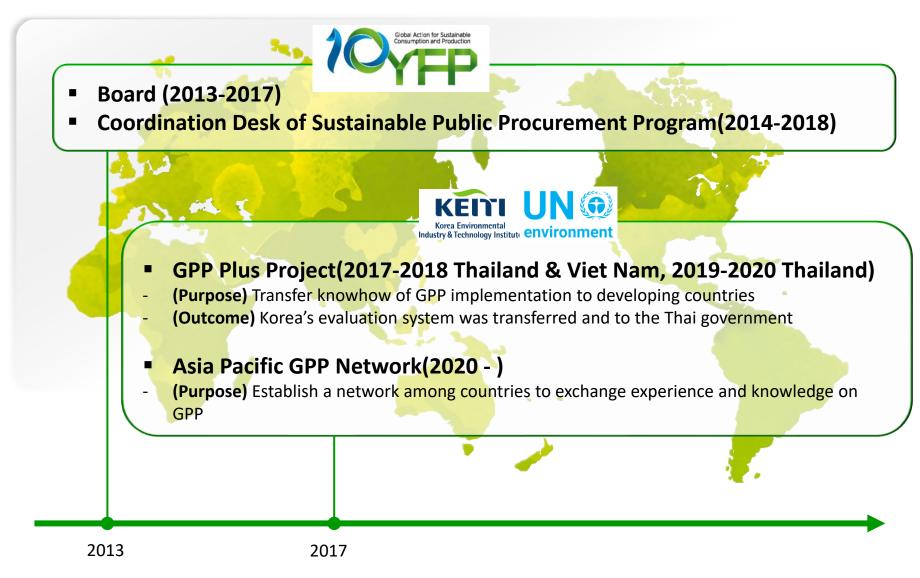
Areas for Improvement





Part 2 Asia Pacific Green Public Procurement

International Cooperation

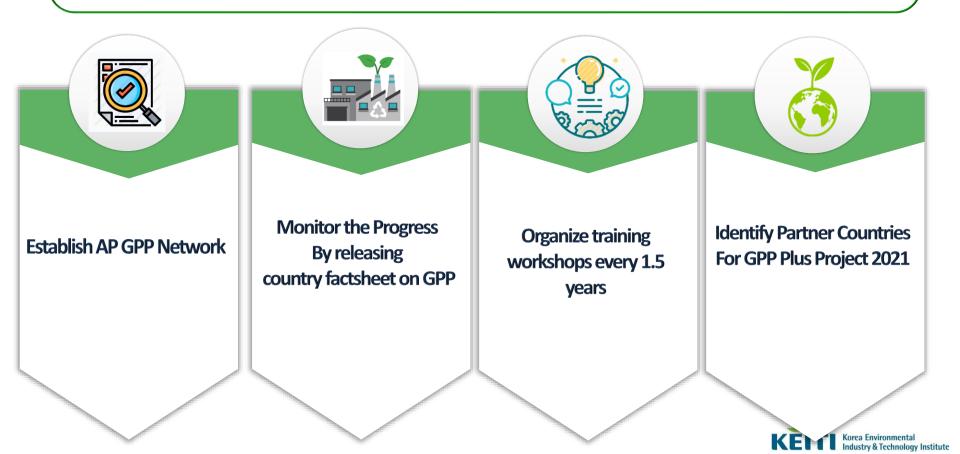




Asia Pacific Green Public Procurement Network

Objectives

- 1. Exchange knowledge and experiences on GPP in connection with 10YFP SPP Programme
- 2. Increase awareness and build capacity for policy makers and practitioners
- 3. Join forces among countries to create market for green products



Asia Pacific Green Public Procurement Network

Next Steps

- 1. Call for application will be launched by UNEP early 2020
- 2. Vision and the work plan of the network will be developed in cooperation with partners
- Network will be officially launched on the sidelines of the 4th Forum of Ministers and Environment Authorities of Asia Pacific in Sep. 2020 (tentative)



REPUBLIC OF KOREAⁱ

PROCUREMENT IN THE NATIONAL GOVERNMENT"

 Estimated total procurement expenditure (2014)
 Estimated % as part of the overall - includes only goods not services or works);

 Central government: USD IS 050 billion
 Central government. 5.5

 State-owned companies: USD 4 844 billion
 State-owned companies: 6.5

 In total for the National Government: USD F680M in total for the National Government: 7.5
 State-owned Companies: 6.5

SPP POLICY FRAMEWORK

SPP provisions in overarching and/or thematic national policies: Yes -Prime Minister i naturation on Spaper for Profit Baumean of the Krew Weterum Weterum Affects and Headhcare Corporation and Support for Provinces dc distinguished Serioristo the Sinsu Disk Dy Prints and Weterum Affects, replerent parchase of products veterum produce. -Act and the Promotic Environment of Intelligation and Fisheries and the Management of and Support for -Act and the Provincies of Environment of Intelligation and Fisheries and the Management of and Support for

Act on the Tromotom of Environment Jonardy Agriculture and Enterna and the Management of and Support for, <u>Organic Foods</u>, et p975 by the Ministry of Agriculture, Food and Rard Affairs and the Management of Noetsen Faherins, Article 55, proferential purchase of eos-friendly agriculture products¹ Act on Succost for Female-owned Business, 1995 by the Small and Medium Business Administration, Article 9.

Ad an support for removing manines, novel of the second supplied directly by female-work administration, arrise v, preferencial purchase of products manifectured and supplied directly by female-work administration, Act on Promotion of Discibled Persons Enterprise Activities, 2006, by the Small and Medium Business⁴ Arritele 9-2, preferencial purchase of goods that disabled enterprises produce.⁶

Act on Promotion of Purchase of Green Products, 2005, by the Ministry of Environment, Article 6, mandatory purchase of eco-labelled products.⁴

Act on Social Enterprise Promotion, 2007, by the Ministry of Employment and Labour, Article 12, preferential purchase of goods or services produced by social enterprises.⁶

 Act on Facilitation of Purchase of Small and Medium Enterprise-manufactured Products and Support for Development of their Markets, 2009, by the Small and Medium Basiness Administration, Article 4 and IX preferential purchase of small and medium enterprise-manufactured products¹

- Essense Act on Law Conduction Comm Consult, 2010, by the Office for Government Policy Coordination, Article 82. - Bagellations on Energy Use Instancialization of Public Organizations, 2010, by Ministry of Trade, Industry and Energy, mandatory visabilizations of networke energy generation foldity and use of energy officient equipment in buildings, high-difficiency energy machinery, LED, and eco-friendly visibles¹ - Formwork Act or Longentius, 2020, Winistry of Strategy and France, Article 95-2, preferential purchase of

-<u>tranework Act on Cooperatives</u>, 2012, by Ministry of Strategy and Finance, Article 95-2, preferential purchase of goods and services produced by a social cooperative.⁹

SPP provisions in existing procurement regulations: Yes

Announcement on procurement guideline for promotion of public purchase of green products, 2010, by the Public Procurement Service.¹⁰



KEINI Korea Environmental Industry & Technology Institute



Thank You very much!

Hyunju Lee

Senior Researcher Sustainable Lifestyle Office Korea Environmental Industry & Technology Institute



Making the case for SPP/GPP Ex-ante evaluation of impact

Isa-Maria Bergman, Motiva Oy, Finland

Competence centre for Sustainable and Innovative Public Procurement, KEINO

The presentation is based on a guide published by the Competence centre : *Opas julkisten hankintojen vaikutusten ja vaikuttavuuden ennakkoarviointiin ja mittaamiseen ,* Kulju, M., Merisalo, M., Tonteri, A., Röykkä, M., Alahuhta, P., Alhola, K., Koivusalo, S., Oksanen, J., Valovirta, V.2019



Who am I and what do I represent

- Director of Circular Economy and Sustainable procurement at Motiva
- Motiva is a sustainable development company of the Finnish government
- Motiva is the co-ordinator of the Competence Centre of Sustainable and Innovative Public Procurement, KEINO, in Finland

23.3.2020

www.motiva.fi/en

 KEINO is a competence centre formed by a strategic partnership between eight organizations working as a network towards joint objectives, such as increasing the number

of **strategic**, **sustainable** and **innovative** procurements carried out.

 The Centre is funded by The Ministry of E conomic Affairs and Employment and joi ntly steered by a conclave of six ministries.

www.hankintakeino.fi/en



The presentation

Introduction

• Why, when and how to conduct impact assessment ?

The process for ex-ante impact assessment

• Phase 1: The need for impact assessment

• Phase 2: Defining the objectives and impact chategories

Phase 3: Indicators for impact assessment

 $_{\odot}$ Phase 4: The tendering process

• A practical example



Why, when anmd how to do ex ante impact assessment



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• An ex-ante impact assessment anmswers the following questions: :

- What strategic objectives are promoted by the procurement?
- What need does the procurement solve?
- How achievable are the objectives?
- What are the concrete changes that are expected?
- What other consequences may occur for the organisation or for society?



5

The role of impact assessment for the tendering process

- The connection between the procurement and the organisation's strategy
- Pros and cons with different procurement options
 - > How to conduct the procurement, what procedure, is a procurement needed
- > Different impact chategories (economic, social and environmental)
 - Short- and long-term
- How to measure the achievement of the objectives



When?

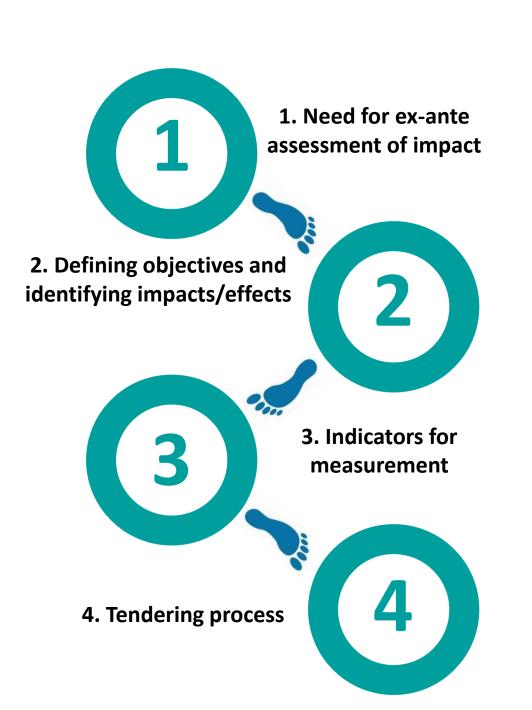
 Impact assessment can be done in different stages of the procurement process (befire, during, after)

 Assessment before procurement aims at structuring and clarifying the planning phase as well as decision making- eg cathegorisation of procurement according to impact



How?

- Four phases.
- Not necessarily a linear flow: phases may overlap





Phase 1: The need for impact assessment



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Phase 1: The need for impact assessment

- The possible impacts of a procurement should be evaluated always when preparing an important or strategic procurement.
- Sometimes a legal requirement (eg. Environmental impact assessment for investments)
- Important to assess potential risks and unwanted side-effects in the preparation phase.
- An impact assessment is supported if the organisations has identified and prioritized those procurements that are most important for achieveing the strategic objectives of the organisation.



Potential impact categories

Potential impacts for procuring authority and client					
Productivity- /savings	Small	Moderate	Big		
Improvement of service quality	Small	Moderate	Big		
Environmental impact	Small	Mdoerate	Big		
Social impact	Small	Moderate	Big		
Impact on internal co-operation	Small	Moderate	Big		
Impact on external co-opertation (eg. Regional	Small	Moderate	Big		
procurement bodies)					
Business activity and comptetitiveness					
Market readiness to meet the needs of the public sector	No solutions	Testing	Solutions		
	ready	required	available on the		
			market		
The scalability of the solution	Small	Moderate	Big		
Innovation potential for companies	Small	Moderate	Big		
Growth potential for companies	Small	Moderate	Big		

Phase 2: Defining the objectives and identifying the impacts to be assessed



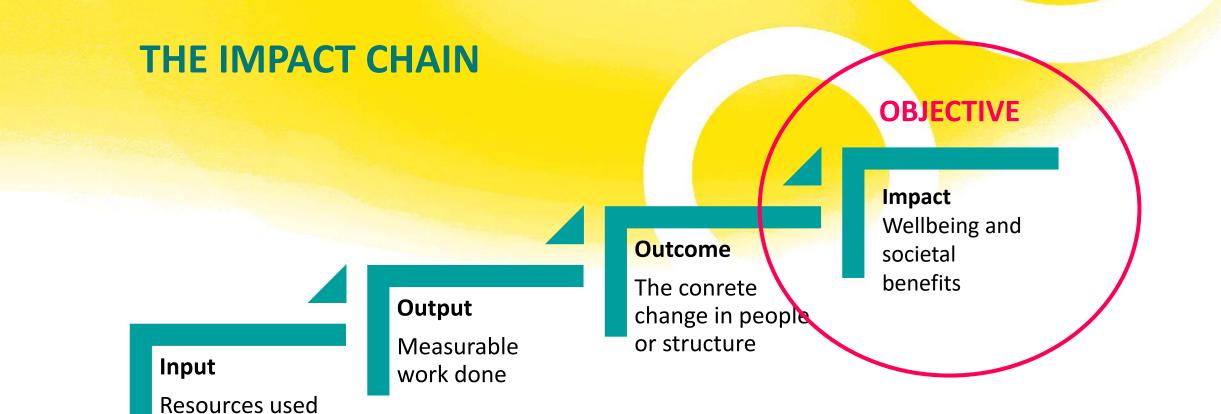
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Phase 2: Defining the objectives and identifying the impacts to be assessed

- Start by defining the objectives of the procurement, i.e. the concrete, positive outcomes that are wanted.
- Focus on those strategic objectives that the procurement in question can help achieve and that are possible to measure.
- Important to identify the impact potential of the procurement and where procedures or organisational culture need to change in order to achieve the objectives.
- The procurement object can be defined as a wanted outcome instead of a specific way of implementation. This way, the allocated resources are more easily understood as an investment for the societal goals, and not merely as an expense item.



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- When impact obejctives for the procurement have been defined suitable indicators are needed to follow up and assess the achievement.
- Also, the means of collecting, managing and analysing data are defined.
- The objectives chosen must be measurable. Thus a crucial factor in determining the impact objectives is the measurability and the availability and quality of data.



- Measuring the effects should be based on a lifecycle model and done on both short- and long- term.
- If the objectives of the procurement will be measured towards the situation before the procurement, the availability of data is essential.
- All objectives are not necessaarily measurable. Factors outside the influence of the supplier should be identified.
- Examples of measurable impact is utilisation, energy savings and cost savings.



Examples of indicators			
Objective	Indicator		
Promotion of occupational health	Number of absencies, results of annual questionaires.		
Promotion of the wellbeing of	Numer of unemployed youth, number of school dropouts, the		
children, youth, families.	psychosocial wellebing of		
Environmentally friendly and energy	Energy consumption, CO2 emissions from energy use, amount of		
efficient building	construction material of renewable sources.		
Low emission public transport	Fuel consumption, the amount ef fuel from renewable energy		
	sources, emissions of exhaust gases		
Energy efficient lighting	Energy use during the life cycle, light output during lifecycle		
Resource efficient waste management	Recycling rate for different waste fractions, amount of waste to		
	landfill, client satisfaction		

- The indicators chosen play a crucial role as decisions are made based on them
- Indicators should be unambigious for all parties involved and they should be easy to report.
- Indicators cane be quantitative or qualitative, thus give different kind of information on the impact..



- The data needs to be verifiable according to accepted methods in the sector. This is crucial of the indicator is used in the evaluation of tenders. In an ex ante assessment phase, a "promise" of the achievable impact is enough.
- There needs to be an agreement between the procuring authority and the supplier on the responsibility to report data.
- It is also possible to draw up different scenarios of impact achievement: objectives achieved totally, partially or not at all.



Learnings from cases

- Impact assessment often requires the introduction of new tools if data collection has not previously been conducted for this purpose
- Trustworthy indicators exist, but data is not necessarily collected systematically.
- Data should be available during the whole procurement process, including contract period. This should be noted when choosing indicators.



Phase 4: The tendering process and procurement documents



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Phase 4: The tendering process and procurement documents

- The impact objectives and indicators developed are included in the procurement documents.
- The aim of the tendering process is to find the suppliers and solutions able to match up to the objectives. Tenderers are given the possibility to offer different solutions.
- The indicators can be used a quality evaluation criteria, eg. energy efficiency. This requires, however, that they are objectively assessable.



Phase 4: The tendering process and procurement documents

- Market analysis and dialogue are an essential part of the procurement planning process. The procuring authority should sort out how the market can respond to the obectives chosen.
- The market dialogue is a valuable plattform to get information on aspects related to measuring. Thus, the draft requirements on contract clauses on data collection should be discussed with potential suppliers.



23.3.2020

Phase 4: The tendering process and procurement documents

- Special attention should be given to drafting the conctract clauses and their unambiguity.
- The contract should include all impact objectives, how and when they are measured during the conctract period
- Assessment should be done during the contract period
 - This is required especially in procurements, where the supplier is paid according to achieved results/impact.
 - The contract should also include incentives and sanctions linked to the objectives.



Case example Energy savings contracting

- Purchasing energy services with guaranteed energy savings is an example of outcomes based contracting promoting environmental aspects.
- Energy Performance Contracting (EPC) means provision of energy services with guaranteed energy savings.
- All energy saving measures are implemented by an Energy Service Company (ESCO) and **financed from the resulting savings with no additional cost** (or only a small additional cost) to the contracting entity as energy savings are contractually agreed.
- The use of such a model can help to modernize public buildings, reduce energy consumption and reduce CO² emissions.
- $_{\odot}$ The trend is towards bundling several buillings into one contract



Success factors for establishing new service concept: long-term political commitment and resources

The city of Vantaa is committed to saving 7,5 % energy until 2025.

- In their ESCO procurement the objective was to achieve > 20 % energy savings as compared to the situation at the time in the chosen buildings. Under the defined 15 year lifecycle this meant savings up to 4,7 million euros and an annual reduction of CO2 up to a 1 317 tons
- The energy savings from the City of Vantaa's award-winning ESCO project are 30 000 MWh in heat and electricity, worth more than €200,000 every year.

 $_{\odot}$ Costs are covered by the energy savings

More information (in Finnish)

https://www.motiva.fi/ratkaisut/energiatehokkuus-_ja_esco-palvelut



In conclusion

- Identify the strategic objectives and prioritise the procurement most essential to achieve the objectives
- Define the impact objectives and identify the role of procurement. Identify changes needed in internal procedures and culture.
- Develop suitable measurable indicators, make sure that data is available and collectable during the contract period.
- Conduct a market dialogue on the impact objectives, indicators and data collection and measurement
- Based on the market dialogue results, draw up the procurement documents. Pay special attention to contract clauses.



Thank you for your attention!

Isa-Maria Bergman, Motiva

Isa-maria.bergman@motiva.fi



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Sustainable/Green Public Procurement

Assessment Review and Prioritization of Sectors

MUSHTAQ AHMED MEMON, PhD

Designing Survey – Identification of Focal Point

Country:		
Organisation/ Institution:		
Name:		
Position:		
Contact details:	Email:	Telephone:



Designing Survey – Current Status of GPP

- 1) Are GPP provisions included in overarching and/or thematic national polities? (e.g. sustainable development strategy, energy efficiency directive, etc. if yes, please state the name of the policy(s), year of adoption, and web-links for their download)
- 2) Are GPP provisions included in existing procurement regulations? (if yes, please provide the name of the legislation, year of adoption, web-link for its adoption, and a short description on where are the GPP provisions included)
- 3) Has a dedicated GPP policy(s) for the whole national government or selected governments?
- 4) What ministry(s) and/or agency(s) lead the development and deployment of GPP policies and what additional ministries/agencies are involved in the process?
- 5) If you have a dedicated national government GPP policy(s), please answer to the following questions.
- What sustainability aspects does the current GPP policy(s) cover? Select from following table

Air pollution	Biodiversity preservation	Climate Change Mitigation	Clean technology and Eco- innovation
Energy conservation	Hazardous substances	Health quality	Local environmental conditions
Ozone depletion	Protection of national resources	Resource efficiency	Soil Protection
Waste minimization	Water conservation	Water pollution	other environmental aspect, please specify:







Designing Survey – Current Status of GPP

How and which organization is in charge of defining green products/services subject to GPP? Is there a linkage between ecolabel and GPP?

Does the current policy(s) set any targets or goals for GPP in the national government? (If yes, please summarize the target and the year by which is should be reached if defined, e.g. X % of GPP by 2020, all targeted authorities published an annual GPP plan, 95% of all contracts include green criteria, the expenditure on prioritised green products and services has to be of X % by 2020, X % GHG emissions reductions through GPP, etc.)

What levels of public authorities are covered by the GPP policy(s)? Select from following table

All national, state/regional, and local public authorities
All national and state/regional public authorities
Only national government public authorities
Some national public authorities
Others, please specify:

Is the GPP policy(s) mandatory, voluntary or a mix depending on the covered authorities?

Are categories of products, services or works prioritised for SPP implementation across the national governments?

If yes, what are the primary criteria for their prioritization?

What are the categories prioritized in the national GPP policy(s) across the national government? Please indicate the names of the categories subject to GPP policy(s)

How many annual human and economic resources are allocated for the promotion and implementation of the GPP policy(s)? (please provide an estimate of the annual budget allocated to the deployment of the GPP policy(s) and the number of employees per year working in the implementation of GPP)







Designing Survey – Current Status of GPP

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- What sustainability aspects does the current GPP policy(s) cover? Select from following table.

Air pollution	Biodiversity preservation	Climate Change Mitigation	Clean technology and Eco- innovation
Energy conservation	Hazardous substances	Health quality	Local environmental conditions
Ozone depletion	Protection of national resources	Resource efficiency	Soil Protection
Waste minimization	Water conservation	Water pollution	other environmental aspect, please specify:







Designing Survey – Needs Assessment

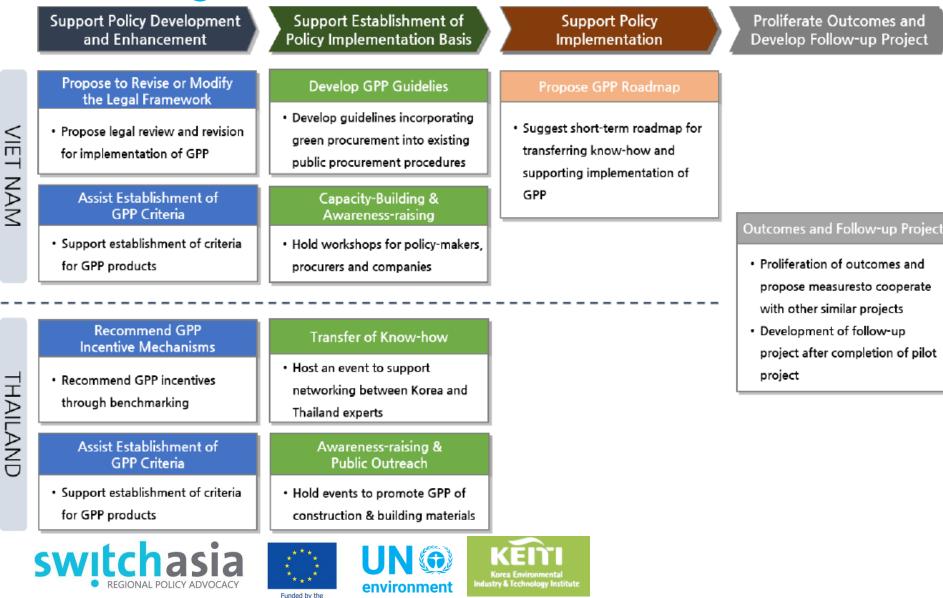
1) Please indicate the five major barriers hampering the	3) Please indicate the five product/service categories that should be a
deployment and the promotion of GPP in your country.	priority for green public procurement in your country.
Select from following tables	Building equipment (air-conditioners, elevators, lighting, etc.)
Lack of mandatory GPP rules/legislation	Building materials (windows, floor-covers, wall panels)
Lack of policy commitments/goals/action plans	Building design and construction
Lack of Inter-agency cooperation	Diverse chemical products(lubricant oils, paints, fire extinguishers, etc)
Lack of expertise in GPP implementation	Execution of work contracts
Insufficient monitoring, evaluation and enforcement of GPP policies	Furniture
Lack of incentives on GPP at organization/personal level	Office IT equipment (computers, screens, printers, etc)
Lack of training of procurement staff in GPP	Infrastructure design and construction (road, etc.)
Competing procurement priorities	Vehicles
Perception that green products and/or services are more expensive	Office paper and stationary
Perception that green products and/or services are of less quality	Others, please specify:
Lack of green products and/or services to procure	4) Please indicate gaps in capacity for implementation of green public
Lack of relevant GPP criteria and specifications	procurement and eco-labelling requiring technical support from UN
Lack of measurement of environmental and/or economic outcomes of	Environment – KEITI (choose all that apply)
GPP implementation	Development and/or revision of GPP policy/legislation
Others, please specify:	Development of GPP action plan
2) Please indicate the five economic, environmental, and social issues	Development and revision of criteria for priority groups
that should be a priority for green public procurement in your country	Development of GPP guide book for priority sectors
Air pollution	Transfer of knowhow on implementation of GPP in priority sectors such as
Biodiversity conservation	building/construction, ICTs, etc.
Climate Change mitigation	Supplier engagement in priority sectors
Energy conservation	Development of incentives/evaluation framework for the promotion of GPP
Hazardous substances	Establishment of monitoring system for GPP
Health quality	Establishment of coordination mechanism with line ministries
Local environmental conditions	Peer learning opportunities for public procurers between Korea and partne
Resource efficiency	countries
Waste minimization	Support for access to financial and technical resources to strengthen greer
Water conservation	production
Water pollution	Others, please specify:
Eco-innovation and green technology development	6) Please indicate the previous and current projects (including under
Protection of micro, small and medium enterprises	discussions) to establish and implement green public procurement and
Nurturing of green products/services industry	
Others, please specify:	eco-labelling in your country.

Analysis and identification of Priorities

Evaluation criteria	Cambodia	Vietnam	Thailand
Green Public Procurement policy framework developed and implemented at the national level	-	No measures in place. Requirements in National Strategy on Green Growth to (i) develop roadmap on green procurement within 2020 and ii) develop regulations on green public procurement	Measures in place. GPPEL regulatory measures in place through the 12th National Economic and Social Development Plan (2017-2021), Environmental Quality Management Plan (2017-2021) and draft Thailand SCP Road Map 2017-2027
Eco-labelling policy framework and regulatory measures implemented to assess and define green products (e.g. Eco-labelling scheme)	No measures in place.	No measures in place. Some sustainable criteria developed but there is no obligation for public procurers to integrate them into the public procurement procedures.	Measures in place. See comment above
Mandate and ownership for Green Public Procurement and Eco-labelling (GPPEL) has been assign to a designated ministry, and/or government agency	Responsibility not been assigned to an agency. However, the National Council for Sustainable Development (NCSD) and Ministry of Environment are in the lead for policy development related to green growth. As such it is forseen that a future responsibility for GPPEL will lie NCSD and the Ministry of Environment.	collaboration with Ministry of Natural Resources and Environment and Ministry of Planning and Investment	Responsibility has been assigned. The Ministry of Natural Resources and Environment (MNRE) by Pollution Control Department (PCD) is tasked with operationalizing GPP. Other ministries and agencies involved include the Ministry of Finance and Ministry of Industry
Overall readiness for the inclusion of GPPEL into national policies and regulatory frameworks		Medium readiness. Plans in place include GPPEL into socio-economic development plans and regulations. A few volunatry sustainability criteria's are already in place. However, this is not mandatory and the criteria's are usually neglected by procurers within the agencies	High readiness. GPPEL included in existing policies and regulatory framework.

Outlining the Focus for GPP

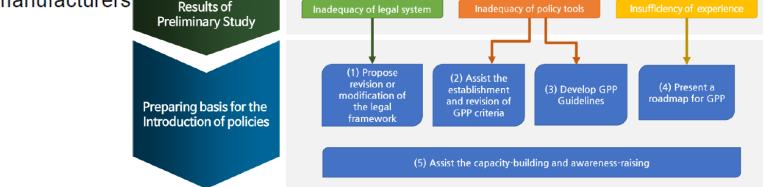
European Union



Concept for Outlining GPP – Viet Nam case study

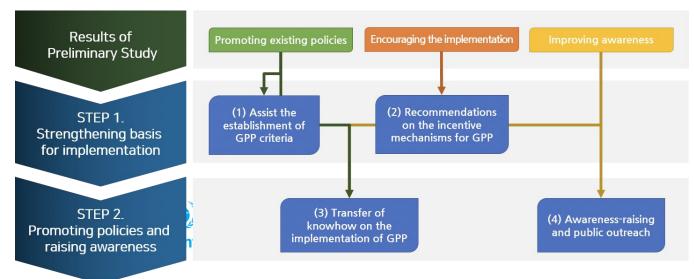
- Green Public Procurement related laws of Viet Nam will be reviewed for organizing the legal foundations for GPP and present recommendations for the enactment and revision of these legal documents by benchmarking the legal system of Korea.
- ② Support development of criteria to support the selection of environment-friendly products within the market in the public procurement process.
- ③ Provide methodology for GPP and develop guidelines for strengthening of the capacities of government procurers.
- ④ Propose short-term roadmap for transfer of know-how of Korea and support for pilot implementation related to GPP.
- Support capacity-building and awareness-raising for GPP stakeholders including policy-makers, procurers and manufacturers

 Results of Preliminary Study
 Inadequacy of legal system
 Inadequacy of policy tools
 Insufficiency of experience



Concept for Outlining GPP – Thailand case study

- ⑥ Establish foundation for green procurement by developing the criteria for the construction and building materials.
- Present incentive mechanism recommendations appropriate for Thailand for promotion of GPP by benchmarking other countries including Korea.
- ③ Transfer of know-how of Korea in operation through establishment and activation of networks of experts in green construction between Korea and Thailand.
- ③ Support activities for awareness-raising on and promotion of GPP in the construction sector for a diverse range of stakeholders including procurers, experts and manufacturers.



Groupwork

- Discuss the reasons for priority sector(s) and relate those sectors with SDGs and NDCs
- Deep dive in the priority sector(s) to identify to priority products, services, utilities and works to develop detailed SPP/GPP processes
- Identify main differences from conventional public procurement to sustainable/green public procurement for the goods, services, utilities and works
- Suggest policy changes (if any) including implementation of policies
- Suggest the change in the practices including full landscape of public procurement for that particular product, service, utility or works















Thank you!

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https://www.unenvironment.org/regions/asia-and-pacific





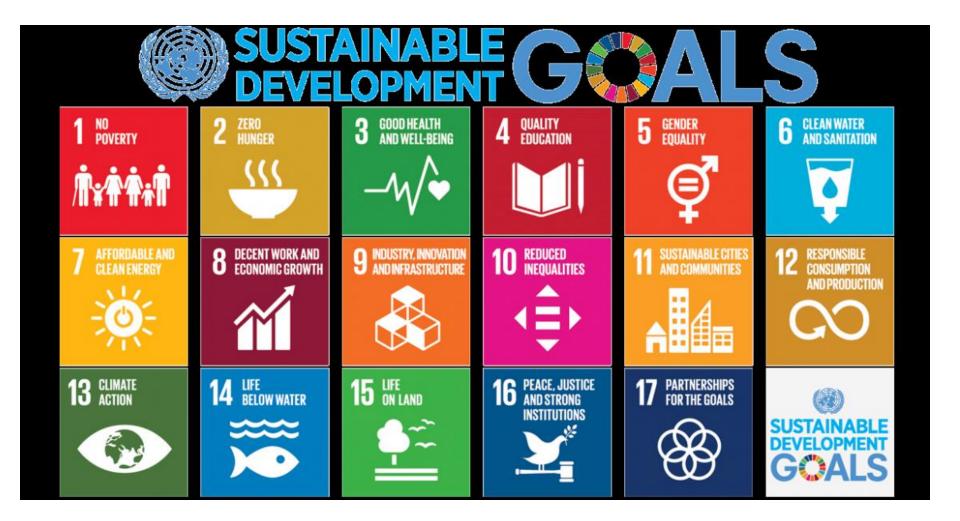




Sustainable/Green Public Procurement for SDGs

Overview of Progress and Next Steps

Mushtaq Ahmed Memon, Ph.D. Regional Coordinator for Resource Efficiency UN Environment, Asia Pacific Regional Office Project Manager Regional Policy Advocacy Component (SWITCH-Asia – the European Union funded programme) UN Building, Nok Avenue, Bangkok, Thailand Email: <u>memon@un.org</u>



SDG 12 Indicators

12.3 - By 2030, halve per capita global food waste at the retail and consumer levels and reduce food losses along production and supply chains, including post-harvest losses

12.3.1 - Global food loss index

12.4 - By 2020, achieve the environmentally sound management of chemicals and all wastes throughout their life cycle, in accordance with agreed international frameworks, and significantly reduce their release to air, water and soil in order to minimize their adverse impacts on human health and the environment

12.4.1 - Number of parties to international multilateral environmental agreements on hazardous waste, and other chemicals that meet their commitments and obligations in transmitting information as required by each relevant agreement

12.4.2 - Hazardous waste generated per capita and proportion of hazardous waste treated, by type of treatment

12.5 - By 2030, substantially reduce waste generation through prevention, reduction, recycling and reuse

12.5.1 - National recycling rate, tons of material recycled

SDG 12 Indicators

12.6. Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle

Indicator 12.6.1: Number of companies publishing sustainability reports

12.7. Promote public procurement practices that are sustainable, in accordance with national policies and priorities

Indicator 12.7.1: Number of countries implementing sustainable public procurement policies and action plans

12.8. By 2030, ensure that people everywhere have the relevant information and awareness for sustainable development and lifestyles in harmony with nature

Indicator 12.8.1: Extent to which (i) global citizenship education and (ii) education for sustainable development (including climate change education) are mainstreamed in (a) national education policies; (b) curricula; (c) teacher education; and (d) student assessment

12.a. Support developing countries to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production

Indicator 12.a.1: Amount of support to developing countries on research and development for sustainable consumption and production and environmentally sound technologies

12.b. Develop and implement tools to monitor sustainable development impacts for sustainable tourism that creates jobs and promotes local culture and products

Indicator 12.b.1: Number of sustainable tourism strategies or policies and implemented action plans with agreed monitoring and evaluation tools

12.c. Rationalize inefficient fossil-fuel subsidies that encourage wasteful consumption by removing market distortions, in accordance with national circumstances, including by restructuring taxation and phasing out those harmful subsidies, where they exist, to reflect their environmental impacts, taking fully into account the specific needs and conditions of developing countries and minimizing the possible adverse impacts on their development in a manner that protects the poor and the affected communities

Indicator 12.c.1: Amount of fossil-fuel subsidies per unit of GDP (production and consumption) and as proportion of total national expenditure on fossil fuels

NATIONAL, REGIONAL AND GLOBAL DISCUSSIONS



Y

Basis for GPP

Green public procurement improves the quality, access and impact of as various objectives of sustainable development could be incorporated to procure:

- goods (equipment, consumer goods, etc.),
- services (catering, waste management, etc.),
- works (infrastructure, installations, etc.) and
- utilities (water supply, electricity)

Green public procurement helps to:

- Save both money and resources life-cycle costing and contributes to a circular economy that will also lead to innovation
- Increase awareness of environmental issues and establishing norms and procedures for private procurement







CHANGING SCENARIO....

Asia and the Pacificc



Growing population from 7 billion today to 9 billion by 2050

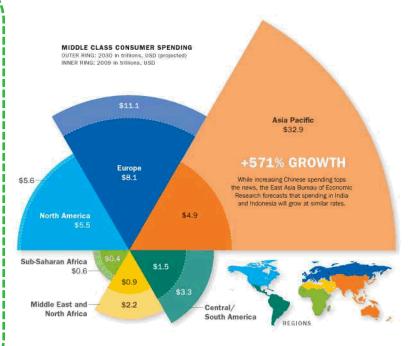


Economic development and increasing global trade

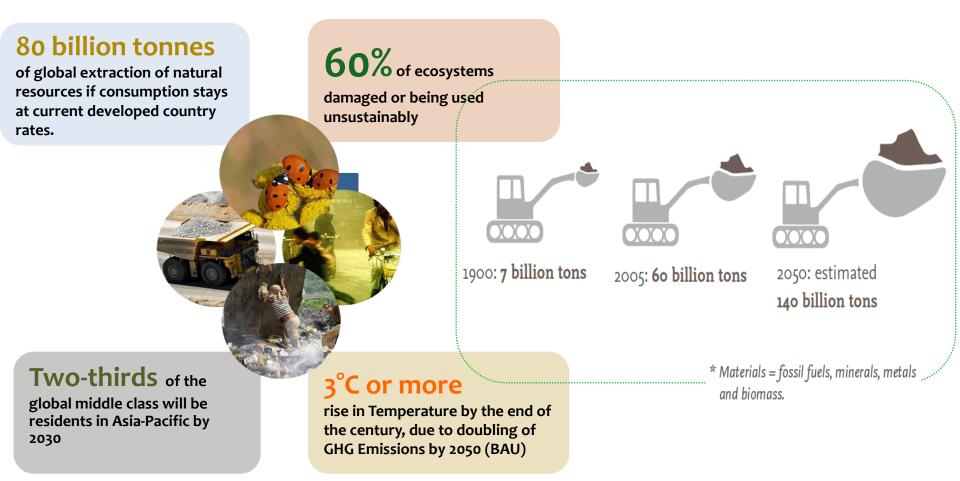


Growing middle-class with **changing consumption patterns**

Increasing consumption of biomass



WHAT IS HAPPENING IN ASIA!

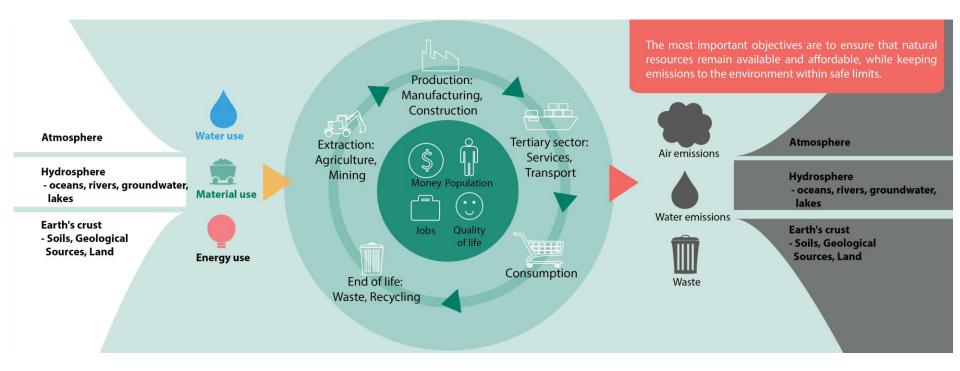


SDGs & NDCs IN SIGHT?

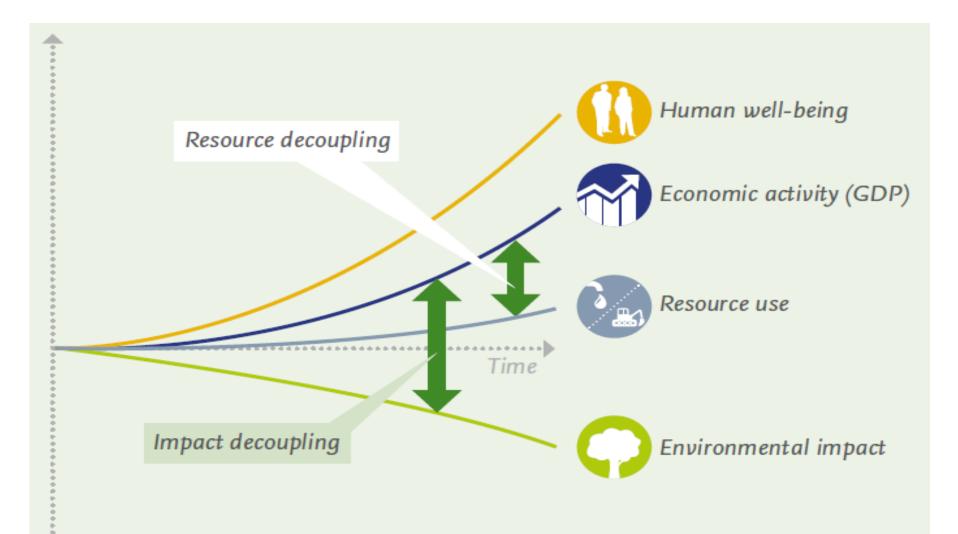
Asia Pacific home to 16 of 28 megacities

Asia Pacific home to < 4.2 billion people

The region's share of global gross domestic product (at purchasing power parity) rose from 30.1% in 2000 to 42.6% in 2017,

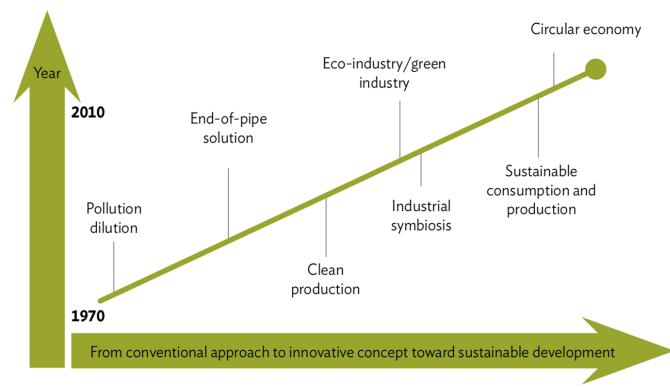


DECOUPLING & CIRCULAR ECONOMY



JOURNEY FROM POLLUTION MANAGEMENT TO CIRCUAR ECONOMY 2.0

Figure 5. Development of Environmental and Resource Management Approach by Industrial Sector



SUSTAINABLE PUBLIC PROCUREMENT (SPP)

12.7. Promote public procurement practices that are sustainable, in accordance with national policies and priorities Indicator

12.7.1: Number of countries implementing sustainable public procurement policies and action plans

(UNEP 2012)

Sustainable development, requires governments and organisations to consider the social, economic and environmental aspects of their operations, with no single aspect dominating. Applying the concept of sustainable development to public procurement, 'sustainable procurement' is defined as:

"A process whereby organisations meet their needs for goods, services, works and utilities in a way that achieves value for money on a whole life basis in terms of generating benefits not only to the organisation, but also to society and the economy, whilst minimising damage to the environment."

Source: Procuring the Future – the report of the UK Sustainable Procurement Task Force, June 2006. Definition adopted by the Marrakech Task Force on Sustainable Public Procurement. The footnote to the definition reads:

Sustainable Procurement should consider the environmental, social and economic consequences of: Design; non-renewable material use; manufacture and production methods; logistics; service delivery; use; operation; maintenance; reuse; recycling options; disposal; and suppliers' capabilities to address these consequences throughout the supply chain.

GREEN PUBLIC PROCUREMENT (GPP)

GPP is "a process whereby public authorities seek to procure goods, services and works with a reduced environmental impact throughout their life cycle when compared to goods, services and works with the same primary function that would otherwise be procured"

GPP can affect environmental impact:

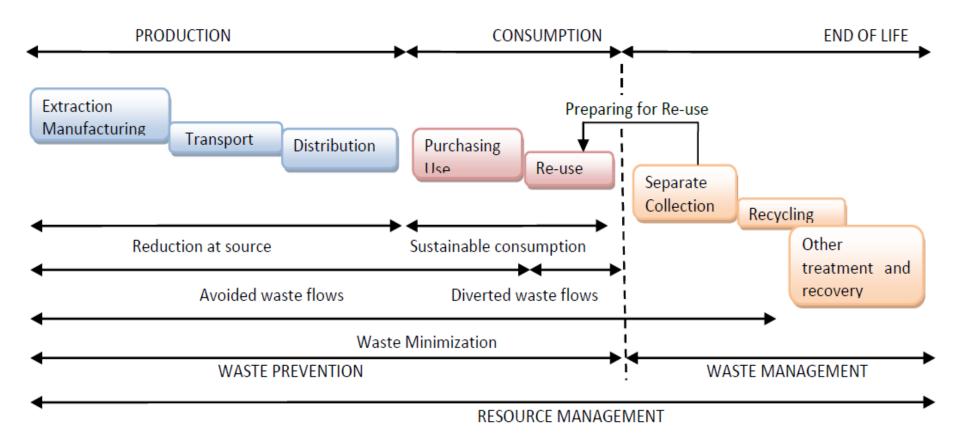
Directly – through improved environmental performance of goods, services and works bought
 Indirectly – through using this market leverage to encourage companies to invest in cleaner products and services

Source: European Union

Current challenges for SPP and GPP

- 1. Theoretical debate
- 2. Some governments use both and also having separate departments and ministries to look after SPP and GPP respectively including for reporting purpose (e.g. SDG 12 reporting)
- 3. Slowing down the process for designing and implementation of SPP/GPP

LIFE CYCLE APPROACH (LCA) AND LIFE CYCLE COSTING (LCC) FOR CIRCULAR ECONMY



UNEP through the EU and KEITI support

Institutionalization of green public procurement requires various measures, capacity and partnerships. UN Environment is working with donors, member states and stakeholders including private sector on:

- Awareness raising and capacity building products,
- National, regional and global discussions,
- National policies and processes and
- Training on cross-learning, adopt to local conditions, and practicing by procurers and suppliers







GPP Workshop 2017

- Philippines: What the government partners want is a simple tool that they can use to start procuring sustainably. But it is not a magic that can happen overnight. It involves researches.
- Cambodia: It needs eco-labelling knowledge and capacity building in order to move towards SPP. It has an environmental and natural resource code review and that is likely to happen in the next few years, but in the meantime, it is important to mainstream GPP into our investment plans and priorities.
- Malaysia: It already has policy in place, so now it is focusing on implementation. The
 most important thing is to enhance the capacity building on the demand side and to
 address financing issues to achieve green growth in Malaysia. Also, the promotion
 and education to all stakeholders to implementing GPP is important.
- Bhutan: As we are only in the starting phase of GPP and not all ministries are aware of it, so we would like more capacity building and support.
- Maldives: The Maldives is an import-based economy where goods are shipped from outside. At the moment, there is a project that will start eco-labeling for electrical appliances and green standards for the construction sector. The government is in the process of amending the procurement regulations to procure in a sustainable manner according to green criteria. The government is still one year away from that. It is also moving towards importing of sustainable air refrigerants in the cooling sector.
- Indonesia: Indonesia has the framework for the development of GPP, and has a set
 of regulations that are just starting to implement. The regulation for eco-labeling is
 already implemented. It needs to strengthen cooperation, especially to increase
 capacity to develop criteria for GPP.
- Lao PDR: There is an inception workshop in Vientiane next month. Lao needs technical and financial support from UN Environment to build capacity.

Workshop report

Pacific Green Public Procurement Partnership Project inception workshop – 27-28 September 2017

Location: Amari Watergate Hotel, Bangkok, Thailand



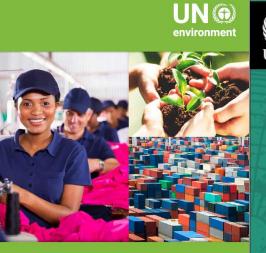








AWARENESS RAISING AND CAPACITY BUILDING



GLOBAL REVIEW OF SUSTAINABLE PUBLIC PROCUREMENT

2017

UN @

MEASURING AND COMMUNICATING THE BENEFITS OF SUSTAINABLE PUBLIC PROCUREMENT (SPP)

Baseline Review and Development of a Guidance Framework GREEN PURCHASING NETWORK MALAYSIA

A SAMPLING OF SUCCESSES IN GREEN PUBLIC PROCUREMENT

Case Studies of Green Public Procurement Implementation in Asia-Pacific Countries

KEITI

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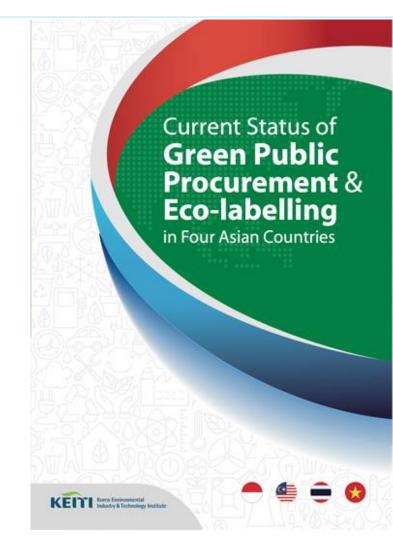






Country Surveys and Assessments

The first step to establish GPP is to assess the gaps and opportunities in the current regulatory and socioeconomic frameworks in the respective countries. This assessment also includes the needs assessment and priority sectors as some countries may be already at advanced stage of GPP; thus, for every country there can be different requirements and pathways. Hence this assessment helps to develop roadmap and action plan for the GPP.









6

environment

Country Surveys and Assessments

Green Public Procurement and Eco-Labelling

Survey for a Capacity Building Project

by UN Environment (UNEP) and Korea Environmental Industry & Technology Institute (KEITI)

#	Evaluation criteria	Cambodia	Vietnam	Thailand	Lao PDR	Malaysia	Indonesia	Myanmar	Philippines
1	framework developed and implemented at the national level	However, the Green Growth Policy and Strategic plan paves the way for the inclusion GPP initiatives and policy development processes.	(i) develop roadmap on green procurement within 2020 and ii) develop regulations on green public procurement	measures in place through the 12th National Economic and Social Development Plan (2017-2021), Environmental Quality Management Plan (2017-2021) and draft Thailand SCP Road Map 2017-2027	No measures in place.	Measures in place. GGP included in National Green Technology Policies (2009) and 11th Malaysia Plan 2016-2020. GGP is also included in the Ministry of Finance Procurement Circular (1PP) which was revised in 2015	Measures in place. GPP included in the National Midterm Development Planning Document 2015-2020 and Draft Presidential Decree on Sustainable Development Goals.	N/A	N/A
	Score	C) 1) 1			
2	Eco-labelling policy framework and regulatory measures implemented to assess and define green products (e.g. Eco-labelling scheme)	No measures in place.	No measures in place. Some sustainable criteria developed but there is no obligation for public procurers to integrate them into the public procurement procedures.	Measures in place. See comment above	No measures in place.	Measures in place. See above	Measures in place. See above	N/A	N/A
	Score	C) 1)			
	Public Procurement and Eco-labelling (GPPEL) has been assign to a designated ministry, and/or government agency	an agency. However, the National Council for Sustainable Development (NCSD) and Ministry of Environment are in the lead for policy development related to green growth. As such it is forseen that a future responsibility for GPPEL will lie NCSD and the Ministry of Environment.	Resources and Environment and Ministry of Planning and Investment	Responsibility has been assigned. The Ministry of Natural Resources and Environment (NMRE) by Pollution Control Department (PCD) is tasked with operationalizing GPP. Other ministries and agencies involved include the Ministry of Finance and Ministry of Industry	Responsibility has been assigned. Ministry of Finance has an Procurement Office attached to the Cabinet of the Ministry.	Responsibility has been assigned. Ministry of Finance, Ministry of Energy, Green Technolog, & Water, Economic Plannig Unit of Prime Minister Department and Malaysia Green Technology Corporation.		N/A	N/A
	Score	0	-						
4	regulatory frameworks	for the development of GPPEL initiatives.	Medium readiness. Plans in place include GPPEL into socio-economic development plans and regulations. A few volunatry sustainability criteria's are already in place. However, this is not mandatory and the criteria's are usually neglected by procurers within the agencies	High readiness. GPPEL included in existing policies and regulatory framework.	however no initiatives, or plans are currently in place to implement GPPEL initiatives into policy and regulatory frameworks	High readiness. Mandatory for Federal Government Ministries and agencies and voluntary to state governments and local authorities	High readiness. The 11th Malaysia Plan is targeting 20% GGP by 2020 and reducing up t 45% carbon emission intensity per GDP according to 2005 baseline		
	Score	1		2 3	1 1	L 3		3 N/A	N/A
	Total score	1	. 3	3 6	; 2	2 6	•	6 N/A	N/A







Asia Pacific Roadmap on SCP









Training Manual for Green Public Procurement

Learning from Pilot Project Case Studies







National Policies and Processes

UN Environment is working various countries to establish and/or strengthen green public procurement:

- KEITI supported project in Vietnam
- KEITI supported project in Thailand
- India: Taskforce on sustainable public procurement led by Ministry of Finance



Sharing Information on Regulatory Framework

EC Communication (2017): <u>Making Public</u> <u>Procurement work in and for Europe</u> – key priorities include:

- Ensuring wider uptake of innovative, green, and social procurement
- Boosting the professionalism of public buyers

Revised Public Procurement Directives (2014)

 key aim to facilitate and ensure the greater inclusion of common societal goals in the procurement process.



GPP for Construction and Housing Sector

- To procure cutting edge environmental friendly technology for construction and installations
- To cut-down the operational/maintenance costs
- To reduce the impact on environment
- To get international acknowledgement for "green buildings" leading to (1) exporting services and technology, (2) attracting tourism, and (3) providing services to major clients looking for green buildings
- Help other sectors and other countries under south-south cooperation, e.g. ASEAN, SAARC and Africa



Sharing the Information for GPP in **Construction and Housing Sector**

Australian Institute of Architects

5 May 2014

Subject AIA BEMPQ Speech by Richard Kirk FRAIA

Design as the focus

Maximising the use of public funds by design - the role and responsibility of Government as expert client

Construction as a Foundation Industry for the State's Prosperity The construction industry is one of the few industries that interface with every other industry in the State - from mining to health, education and infrastructure - it provides the framework for each industry and the importance of optimizing the outcome is crucial and self-evident. This Government recognizes this by identifying the construction industry as one of the four pillars of the economy.

Design is fundamental to optimizing the value from all of these construction programs - the value of design in the construction industry is fundamental to the prosperity of the State - Shane Thompson last year enumerated how high quality well managed design can provide substantial gains in operational and long term ownership efficiencies. Good design is good business.

The built environment in our cities and towns is a physical expression of the shared capabilities of the industry and the skill and leadership of the Government and its agencies. The built-environment is the only enduring legacy of our shared governance skills - and it is critical that this community presents itself as a sophisticated place in the competitive arena of new-age Cities in South East Asia. Good design is fundamental to our international competitiveness.

Aspirations to use public procurement as a lever of government reform

It has been recognised in UK government practice that procurement should be more strategic within government (HM Treasury/ Cabinet Office, 1998). In a recent speech by Gordon Brown, Chancellor of the Exchequer, it was demonstrated that public procurement is now high on the agenda of senior ministers

"I think most of you would agree that 50, 20 or even 10 years ago the idea that the Treasury would be interested in issues like public space, the design quality of public procurement, environmental standards, devolution, regionalism and social exclusion would be almost unthinkable. But we know that not only are these questions vital to successful, economically vibrant communities but they are at the heart of the agenda for social and economic progress."

Gordon Brown 2005

For the purposes of this presentation I will over simplify the numerous forms of procurement that are broadly described as traditional or non-traditional.

Traditional design - tender - build

Non-traditional preliminary design - tender - complete design - build

Procurement of buildings and procurement of design services are intrinsically linked but need to be understood as different processes and will be discussed separately

Construction Sustainable Procurement Guidance



Construction

Introduction

This briefing guide supplements the e-learning modules and should be read in that context. The information is for guidance only and appropriate advice, including legal support, should be taken before proceeding with specific actions.

The guidance follows the format of the e-Learning modules in providing suggestions in the following areas:

- Pre-procurement policy context
- Pre-procurement strategy •
- Specification development
- Supplier selection and award, and •
- Contract management •
- Summary
- Useful links

This document provides an action plan to assist procurers during the pre-procurement and procurement stages. The action boxes at the end of each section can be used to identify task relevant to a procurement stage.

The 'Introduction to Sustainable Procurement' e-learning module aims to help procurers understand the context and importance of embedding sustainability into public procurement. The 'Introduction to Sustainable Procurement' e-learning module it is available from:

http://www.resourceefficientscotland.com/resource/public-sector-procurement

Complementary guidance – Procuring Resource Efficient Construction

As the e-learning modules emphasise, this guide complements Zero Waste Scotland's guidance 'Using the procurement process to drive resource efficient construction'. This focuses on creating a clear Policy Statement and Project Resource Efficiency Brief for the design and construction phases of a project. Further guidance is available for producing the Policy Statement, Resource Efficiency Brief, Cascading Requirements and Capturing Performance and Model Wording, which can be accessed at http://www.wrap.org.uk/content/approach-procurement-resource-efficiency . N.B. You should ensure that the guidance is relevant for the procurement you may be undertaking; for example reflecting relevance and proportionality and the use of a standardised PQQ (sPQQ).









Specification Supplier selection and bid evaluation

- Contract management

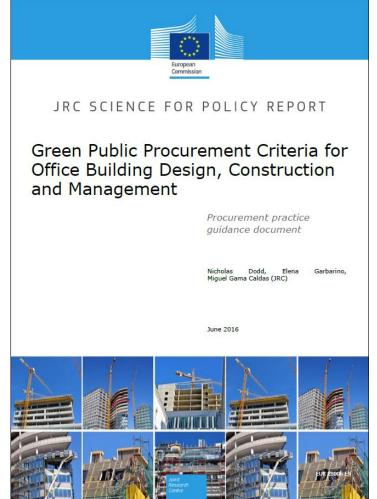
Policy objectives

Sustainability risks and

opportunities

Procurement strategy

Sharing the Information for GPP in Construction and Housing Sector





Global Review of Innovation Intelligence and Policy Studies

Ministudy 12 Sustainable Construction and Public Procurement: Examining the Scope for a Clean Buildings Directive Jennifer Hayden, John Rigby, Roger Courtney, Pierre Bitard

A Project for DG Enterprise and Industry

Project coordinator:

Louis Lengrand & Associés



Project partners:

MIoIR University of Manchester MANCHESTER 1824

ANRT (Association nationale

de la recherche technique)



April 2010





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environment



Sharing the Information for GPP in **Construction and Housing Sector**

Improving the Environmental Health of Residents in Public Housing: The Procurement of Paints by Korea Land & Housing Corporation

COUNTRY: Korea PROCURED GOOD: PAINTS **PROCURING ENTITY: KOREA LAND & HOUSING** CORPORATION (A PUBLIC AGENCY) SIZE OF CONTRACT BY PURCHASING ENTITY: SINGLE CONTRACT OF 7.4 BILLION KRW (7.4 MILLION USD)

specifications are not always available in Korea.

OVERVIEW OF THE PROCUREMENT OF PAINTS BY KOREA LAND & HOUSING CORPORATION

This case study illustrates the shift to the procurement of green paints by Korea Land and Housing Corporation (LH), a government-owned corporation that is responsible for the maintenance and management of land and housing. LH carries out green purchasing of products intended for construction projects according to the "Act Promoting the Purchase of Green Products." This case study demonstrates how a public institution can make strides in reducing environmental impacts and decreasing health risks to residents due to the uptake of a mandatory policy on green purchasing.

In 2014, Korea Land and Housing Corporation procured 7.4 billion KRW in ecolabelled paint. The monetized environmental benefits generated from the purchase of ecolabelled paint by LH were as follows:

- Reduction in harmful substances: 1,130,555,250 KRW
- Reduction in Indoor air pollutants: 10,688,886,000 KRW

The procurement of ecolabelled paints by LH thus amounted to environmental benefits valued at a total of 12 billion KDW

Key Challenges

Key Success Factors

- 1. Challenges identifying green alternatives for required construction materials & lack of availability 1. Mandate for GPP at national and institutional level: The "Act Promoting the Purchase of Green Products of 2005" established a clear legal mandate for GPP both at national and institutional of these products in the marketplace: Often, purchasers find it challenging to identify whether eco-friendly versions of the required construction materials exist, and from where they can be for public organizations to implement GPP. sourced. Purchasers sometimes find that sustainable alternatives meeting the required technical
- 2. Lack of awareness and understanding of green purchasing amongst business units in charge of construction: KEITI often works with officers from Environment departments when accomplishing sustainable purchasing activities. These employees don't usually have the power to directly influence purchasing decisions on construction materials, as this is decided by the construction department. More education, outreach, and coordination with other departments is necessary to build awareness and comfort with green purchasing activities.
- 3. Lack of time and resources dedicated to GPP: Although all public-sector organizations are mandated to do GPP, the work can be overlooked in favour of competing priorities when demands on staff time and resources are high.

- levels. With this mandatory purchasing requirement set by the government, it has become easier
- 2. Development of a prequalified supplier pool by LH: The Korea Land & Housing Corporation developed an early green procurement plan, enabling the creation of a prequalified supplier pool for green products. The development of a supplier pool for green products was helpful as it gave suppliers a better understanding of purchasers' needs and thereby empowered them to supply quality products at a reasonable price. The supplier pool has also helped to increase the market share of green products. Finally, the supplier pool continues to facilitate the procurement of green construction materials by providing to buyers an exclusive list of green products and materials with detailed information on product features and environmental benefits.
- 3. Well established monitoring and reporting processes: Green procurement activities are monitored and evaluated on a regular basis by LH. Moreover, green procurement achievement is included as one of the key performance indicators at the Korea Land & Housing Corporation, which provides an incentive to achieve the targets.





UN 🏵 environment



Sharing the Information for GPP in Construction and Housing Sector

In 2015, the NHIS procured 3,697 indoor LED lights that carried an ecolabel. The monetized environmental benefits generated from the purchase of ecolabelled LED lights by the National Healt Insurance Service were as follows:

- Reduction in harmful substances: 4,399,430 KRW
- Reduction in the use of electricity (per product per year): 52,759,317

The procurement of ecolabelled LED lights by NHIS thus amounted to environmental benefits valued at a total of 57,158,747 KRW.

RESULTS³²

Mitigating Climate Change Through an Efficient Use of Energy: The Procurement of LED Lights by Korea's National Health Insurance Service

COUNTRY: Korea PROCURED GOOD: LED lights PROCURING ENTITY: National Health Insurance Service TOTAL VALUE OF ECOLABELLED INDOOR LED LIGHTS PROCURED BY PUBLIC AGENCIES IN KOREA: 700 million KRW (700,000 USD) When purchasing Green products, public procurement staff refer to the following criteria:

Certified or meeting the criteria set by the Korea Eco-label for the product or service in question;

Certified or meeting the criteria set by the **Good Recycled Mark** for the product or service in question;

In compliance with **other environmental criteria** set by the Ministry of Environment in

Currently 16 LED light manufacturing companies carry ecolabel certification on their products. One company with ecolabel certification for LED lights supplied 3,697 LED lights to the National Health Insurance Service.

According to 2015 data, the total value of ecolabelled indoor LED lights procured by public agencies in Korea amounted to 700 million KRW (700,000 USD).

The progress report on green public procurement by KEITI (January 2015) stated that the environmental benefits gained from the purchase of ecolabelled LED lights by the National Health Insurance Service in 2015 were equivalent to a total monetary value of 57,158,747 KRW.

The monetized environmental benefits received from the switch to ecolabelled LED lights were broken down in the 2015 progress report on green public procurement as follows:

- Reduction in harmful substances (per product): 1,190 KRW
- Reduction in the use of electricity (per product per year): 14,271 KRW

As such, the monetized environmental benefits arising from the purchase of ecolabelled LED lights by the National Health Insurance Service in 2015 are as follows:

- Reduction in harmful substances: 3,697 units x 1,190 KRW = 4,399,430 KRW
- Reduction in the use of electricity (per product per year): 3,697 units x 14,271 KRW = 52,759,317







SPP/GPP Support for India

No.F.18/22/2017-PPD Government of India Ministry of Finance Department of Expenditure Procurement Policy Division

> 516, Lok Nayak Bhawan, Khan Market, New Delhi Dated the 19th March, 2018

OFFICE MEMORANDUM

Subject: Task Force on Sustainable Public Procurement.

A presentation on Sustainable Public Procurement (SPP) was organized on 7th March, 2018 by Department of Expenditure (DoE) which was also attended by the representatives of Ministry of Environment, Forest and Climate Change (MoEFCC) and United Nations Environment Programme (UNEP). It was noted that over 40 countries have put in place sustainable procurement policies. Taking note of the potential for economic and environmental gains attained within India by adopting sustainable technologies in the procurement of LED lamps, Energy Star ratings of BEE, adoption of Life Cycle Costing in certain areas, etc., it is felt that more economic and environmental gains can be unlocked through development a Sustainable Procurement Policy in specific product groups/services/works that Government procures. The need for consulting and involving industry, strengthening the certification and eco labelling systems, developing tool kits for use of LCC in various sectors, training and capacity building of procurement officers, etc., were identified as areas for attention.

2. It is therefore decided to constitute a Sustainable Procurement Task Force with the following Terms of Reference (ToR):

- (i) Review International Best Practices in the area of SPP.
- (ii) Inventorise the current status of SPP in India across Government organizations.
- (iii) Prepare a draft Sustainable Procurement Action Plan
- Recommend an initial set of product/service categories (along with their specifications) where SPP can be implemented

3. The composition of Sustainable Procurement Task Force shall be as follows:

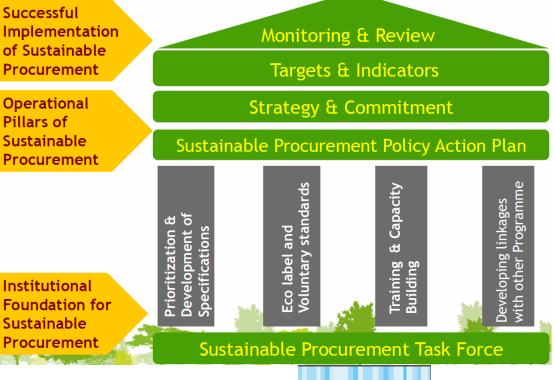
- Joint Secretary (PPD & PF C-II), Department of Expenditure, Ministry of Finance, Chairman.
- (ii) Representative of MoEFCC not less than the level of Joint Secretary
- (iii) Representative of Ministry of Railways (MoR) not less than the level of Joint Secretary.
- (iv) Nominee of CEO, GeM.





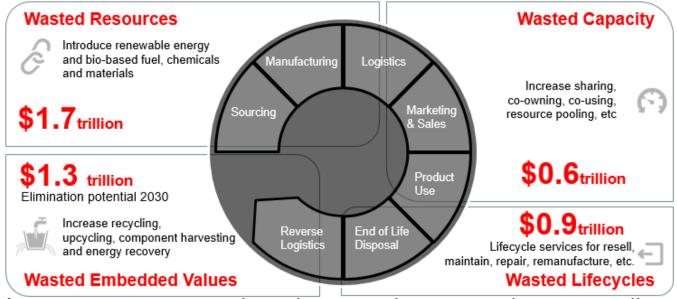


Sustainable Procurement Implementation Framework





GPP for Promoting Circular Economy - India



•Wasted resources are materials and energy that cannot be continually regenerated, but instead are consumed and forever gone when used.

•Products with **wasted lifecycles** have artificially short working lives or are disposed of even if there is still demand for them from other users.

•Product with **wasted capacity** sit idle unnecessarily; for instance, cars typically sit unused for 90% of their lives.

•Wasted embedded values are components, materials, and energy that are not recovered from disposed products and put back into use.



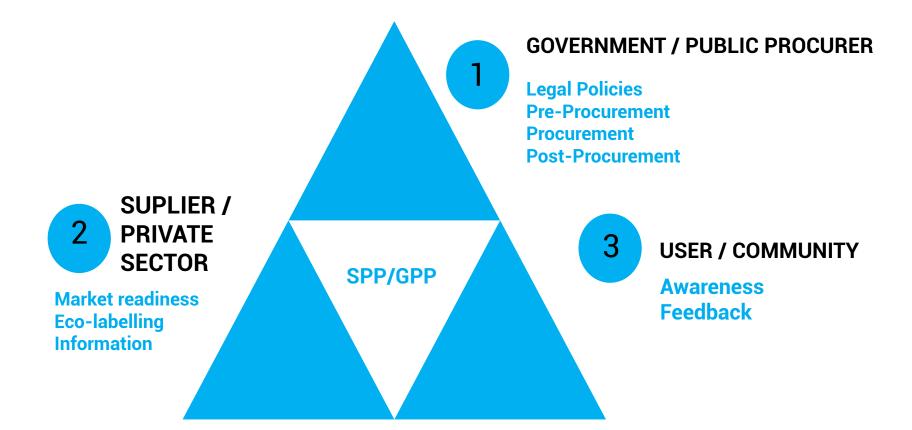




environment

Way Forward for GPP

INCREASE SYNERGY BETWEEN THE STAKEHOLDERS AND PARTNERS







UN 💮



TODAY'S WORKSHOP

- Review of "How to develop roadmap and action plan for SPP/GPP?" Definitions,
 - Legal frameworks, and
 - Certification
 - Market readiness to respond to GPP

Capacity of public sector to develop and implement the process for various goods, services, works, and utilities in various sectors and at various levels of governments

- Deep dive to identify priority sectors for SPP/GPP (manufacturing, agriculture, transport, housing, energy, blue economy, tourism, etc.)
- To start cross-fertilization and cross-generation of knowledge for designing SPP/GPP based policies and practices to address specific

sectors, products, services, works and utilities (groupwork)















Thank you!

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https://www.unenvironment.org/regions/asia-and-pacific







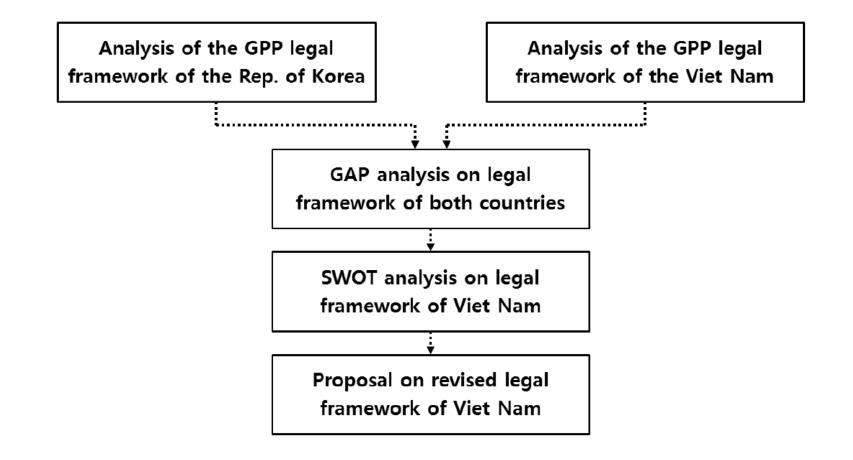


Sustainable/Green Public Procurement

Review of "How to develop roadmap & action plan?"

MUSHTAQ AHMED MEMON, PhD

Overview- Improving Policies and Legal Frameworks





Assessment of Policies and Legal Frameworks

Green Public Procurement of Viet Nam has relevant legal basis arising from the Law on Environmental Protection and the enforcement regulations of the Law on Environmental Protection being managed by the Ministry of Natural Resource and Environment (MONRE) in overall charge of environmental policies. In order to achieve effective implementation of these legal bases in Viet Nam at the policy level, it is essential to establish direct and indirect organic liaison between the Ministry of Finance (MOF) in charge of bidding and procurement, and the Ministry of Planning and Investment (MPI) in charge of national budget.

Decision No. 1393/QD-TTg of September 25, 2012, approving the national strategy on green growth

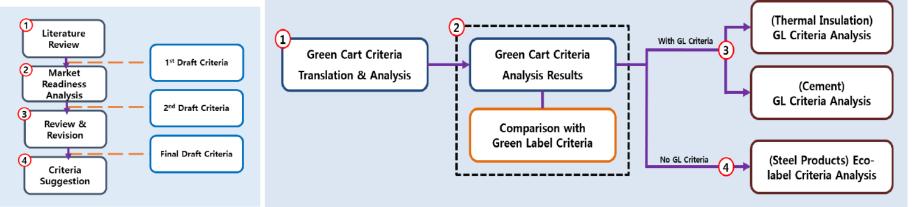
National Green Growth Strategy approved through the decision by the Prime Minister of Viet Nam (Nguyễn Tấn Dũng) on September 25, 2012 Viet Nam contains presentation of plans to proliferate information on environment-friendly products by promoting Eco-Labeling in order to promote sustainable consumption throughout all sectors of the society. Although a new Prime Minister of Viet Nam, Nguyễn Xuân Phúc, was formally elected as the successor of former Prime Minister, Nguyễn Tấn Dũng, who signed the said decision at the Parliament of Viet Nam in April, 2016, there is no change in the driving force for implementation of the existing National Green Growth Strategy. This report organizes and summarized relevant contents under the premise that the said Strategy is being pursued from the perspective of consistency of policies since mid to long-term strategies and visions up to 2020 and 2030 have already been presented.

Assessment of Policies and Legal Frameworks

Thailand is currently leading the implementation of Green Public Procurement within the region including accumulation of experiences through implementation over the last decade. It is assessed that stabilization of the system is in progress at the moment and establishment of foundation for new priority area in order to expand the system is required. Therefore, the implementing agency proposed expanded application of GPP for the construction sector of public organizations.

Focal point has been pursuing establishment of Technical Sub-committee to be in charge of establishment and examination of criteria for construction and building materials.

Establishing the foundation for selection of environment-friendly products by developing criteria for construction and building materials purchased frequently in the procurement market in Thailand.



Assessment of Policies and Legal Frameworks

The biggest stumbling block in succeeding policy level success of Green Public Procurement in Viet Nam is the lack of clear control tower for unification of opinions between the departments and ministries.

Accordingly, if introduction of Green Public Procurement policy in Viet Nam were to fail, this could induce the results of degrading the export competitiveness of products manufactured by export companies in Viet Nam.

In particular, under the current status of continued increase in the proportion of export in Viet Nam, if the product environment regulations of advanced countries cannot be coped with effectively, export competitiveness of the products can decrease significantly.

Organic association among the laws of relevant departments must be established in order for Green Public Procurement policy to be implemented successfully.

Roadmap to Improve Policies & Legal Frameworks Benchmarking

—			
	Korea green purchasing Law	Related law & program for GPP	
The scope of green products governed by this Act: Eco-label & GR certified product	Article 2-2 Scope of application	Green building construction Act	According to article 15, 16, 25, greer products are included in the award items for certification
The heads of public institutions shall purchase a green product	Article 6 Public institution obligation to purchase	Env. Tech. and industry support Act	According to article 17, 26, includes support for eco-label certification
The heads shall formulate and announce implementation plan in two months after fiscal year begins	Article 8 Implementation plans for purchasing	Act on the promotion of saving and recycling of resources	According to article 31, 33, includes support for GR certification
The heads shall aggregate the record and submit the Minister of Env. in three months after fiscal year begins	Article 9 Purchase records of green products	Low carbon green growth Act	According article 3, specify the scop of green products in the GPP guideline of PP service
The special metropolitan city etc may prescribe the matters by municipal ordinances and implement such one	Article 11 Encouragement of purchase GP by local government	Local government ordinance for GPP	241 local governments have enacted GPP ordinance
The administrator shall request the heads to purchase such green products	Article 12 Role of administrator of PP service	Act on the management of public institutions	According to article 48, managemen performance items include GP purchase performance indicator
The Government may lend each of the following support to business operators and organizations	Article 15 Support for encour. of purchase	Republic of Korea Award for eco-friendly merit	The government annually conducts a reward for eco-friendly management technology and products









Roadmap to Improve Policies & Legal Frameworks Criteria development

1) **Product selection:** To select the designated products a list of top 20 highly purchased products is prepared with regards to the following aspects:

- Technical aspects (processing with lower environmental impacts),
- Environmental aspects (based on life cycle considerations), and
- Economic aspects (availability of alternative products/services, availability in markets, high amount of purchase).

2) **Literature review:** Staff from Environmental Quality and Laboratory Division and the Pollution Control Department conducts a literature review to collect information regarding national and international eco-labeling standards. These standards are further used to develop the green public procurement criteria.

3) **Drafting criteria of product/service for green public procurement:** Draft criteria are proposed to the working group comprising of representatives from the Ministry of Natural Resources and Environment, Ministry of Industry, Thai Federation of Industry, Thai Chamber of Commerce and Thailand Research Fund after the preliminary selection of product categories and review of eco-labeling standards.

4) **Formulating criteria for green public procurement:** The working group formulates green public procurement criteria for a designated product category as per the review of draft criteria

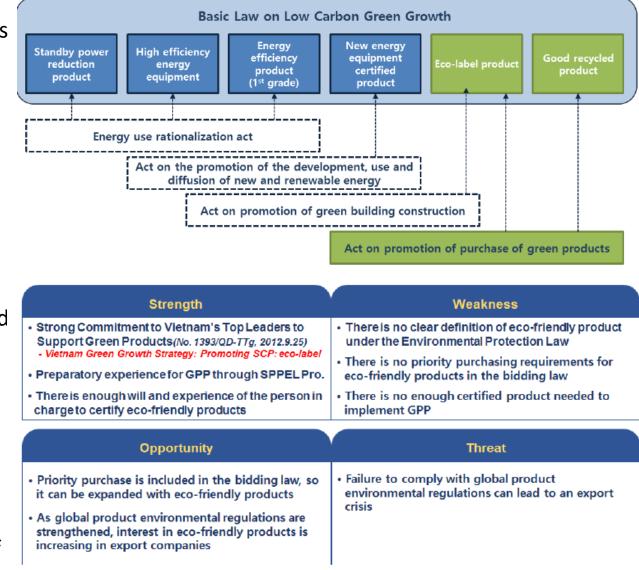






Learning – Case Studies

Comparative analysis of the legal systems of both countries will be carried out by executing SWOT analysis, namely, the factors of strength, weakness, opportunity and threat, in implementation of Green Public Procurement policy in Viet Nam on the basis of the contents of legal analysis on Viet Nam presented above and results of analysis of various policies and laws related to Green Public Procurement in Korea. Strength and weakness include the contents of analysis of internal factors while opportunity and threat include contents of analysis of external factors.



Learning – Case Studies

	1) Proposal for rovision of Law or	Environmental Protection and En	forcomont Docros		+	
1) Proposal for revision of Law on Environmental Protection and Enforcement Decree				Article 44. environment-friendly production and		- I
	of Law on Environmental Protect	tion		consumption	consumption	
				 (Skip) Heads of agencies and units funded by 	 (Skip) Heads of agencies and units funded by 	
(1 Law on Environmental Protection	on (No. 55/2014/QH13)		the state budget shall prioritize the use	the state budget <u>shall prioritize the</u>	
				of eco-friendly products and services which	production and consumption of eco-	
	Current	Draws and draft	Reason for	have been eco-labeled in	friendly products and services	
	Current	Proposed draft	proposal	accordance with law.	<u>a/ Heads of agencies and units funded</u> by the state budget shall bear their	
ļ	Article 3. Interpretation of terms	Article 3. Interpretation of terms	add the definition of	1	responsibility to purchase eco-friendly	
	In this Law, the terms below are construed	In this Law, the terms below are construed	eco-friendly products		products and services.	
	as follows:	as follows:	and services' that is		b/ Heads of agencies and units funded	
	1.~29.(skip)	1.~29.(skip)	one of key terms of		by the state budget shall give financial incentives to eco- friendly products and	
	1	30.ecofiendly products and services refer to those that reduce			services	add financial
	1	resource and energy consumption and reduce environmental			c/ Heads of agencies and units funded	incentive as one of
	1	impacts thoughout the intellie cycle of a products stemasthe products and service that acquired Viet Nam Geen Label			by the state budget shall submit the	supportingitems
	1	producis and service that acquired viet Nam Green Laber certification	1		results of the green public procurement for one year to the Minister of the	add management
	1	, <u> </u>	1		Ministry of National Resources and	element on plan and
	1	1	1		Environment by the first quarter of next	results of GPP policy
	1	1	1		year, and the Minister of the Ministry of National Resources and Environment	in Viet Nam
	II	11	1'		shall compile and disclose the results to	
ſ	Article 5. State policies on environmental	Article 5. State policies on environmental	add those	1	the public.	
	protection	protection	paragraph in the			
	1.~11.(skip)	1.~11.(skip)	regulatory policies			
	1	12. Encourage the production and				
	1	consumption of eco-friendly products	VEA's comment	Article 152. Development and application	Article 152. Development and application	add R&D support for
	1	and services.	1	of environmental protection sciences and technologies	of environmental protection sciences and technologies	eco-label in this article
	1	1	1	1.~2. a/~b/ Skip	1.~2. a/~b/ Skip	And reflect Mr.
_L 		·			bb) Research, transfer, develop and	Nguyen Thi's
	De	cision 1393/QD-TTg			apply eco-friendly technologies.	comment
		n Green Growth Strategy)			products, raw materials and fuels;	
		+				
	Regulatory Elemen	ents for Green Public Procurement				
	Eco-product Definition & Scope Green Label Program Operation & Support Eco-prod Techno Support	nology Regulation Priority oport debating Procurement	GPP Plan & performance Management	KEITI		
	<u> </u>	r		Korea Environmental		
		,,,,,,,	st	stry & Technology Institute		
	Environmental Protection Law & State Bu	Budget Law & Public Investment Bid	dding Law & Decree,			

Proposal of the co-relationship between GPP-related laws in Viet Nam Figure 2.61

Decree

Law & Decree

Circular

Decree

Detailed Interventions

A. Bidding Law (No. 43/2013/QH13)

Current	Proposed draft	Reason for proposal
 Article 14. Preferences in contractor selection 1. Skip 2. Skip 3. Entitled to preferences when participating in national bidding for provision of consultancy, non-consultancy and construction and installation services 	Article 14. Preferences in contractor selection 1. Skip 2. Skip 3. Skip	
are: a/ Contractors with 25% or more of their employees being female; b/ Contractors with 25% or more of their employees being war invalids and people with disabilities; c/ Contractors that are small-sized enterprises.	a/~ c/ Skip	

A. Decree under the National Budget Law (No. 163/2016/ND-CP)

Current	Proposed draft	Reason for proposal	Article 12. Making of bidding doss 1.~2. Skip
Article 3. State budget expenditures 1. Development investment expenditures, including: a/~c/ Skip 2. National reserve expenditures. 3. Current expenditures for the following fields: a/ National defense; b/ Security and social order and safety; c/ Education-training and vocational training; d/ Science and technology; Viet Nam Law & Legal Forum 4 dd/ Health care, population and family; e/ Culture and information; g/ Radio and television broadcasting and news; h/ Physical training and sports; i/ Environmental protection; k/ Economic activities; l/~n/ Skip 4.~9. Skip	Article 3. State budget expenditures 1. 1Development investment expenditures, including: a/~c/ Skip 2. National reserve expenditures. 3. Current expenditures for the following fields: a/ National defense; b/ Security and social order and safety; c/ Education-training and vocational training; d/ Science and technology; Viet Nam Law & Legal Forum 4 dd/ Health care, population and family; e/ Culture and information; g/ Radio and television broadcasting and news; h/ Physical training and sports; i/ Environmental protection; <u>ii/ eco-friendly product and service</u> k/ Economic activities; I/~n/ Skip 4.~9. Skip	identify expenditure items of env. protection	3. For bidding packages to progoods, criteria for evaluation of bid dossiers include: a/ Criteria for capacity and experie evaluation b/ Technical evaluation criteria To use the pass-fail system or method of point-rating according 100- or 1,000-point scale to dev technical evaluation criteria. In cas using the point-rating method, minimum and maximum points for or general and specific criterion must specified. Technical evaluation crit shall be developed based contractors' capacity to requirements on the quantity, qu and time of delivery of goods, ge transportation, installation warranty as well as contracts in past, and other requirements

B. Decree of Bidding Law (No. 63/2014/ND)

Current	Proposed draft	Reason for proposal
Article 6. Preferences in national bidding 1. Skip 2. In case bid dossiers and dossiers of proposals of contractors are ranked equal, bid dossiers and dossiers of proposals of contractors with a total number of female employees or employees being war invalids or people with disabilities working under labor contracts of at least 3 months accounting for 25% or more, and of contractors being small- sized enterprises entitled to preferences under Clause 3, Article 14 of the Bidding Law shall be ranked higher than those of contractors not entitled to any preferences.	Article 6. Preferences in national bidding 1. Skip 2. In case bid dossiers and dossiers of proposals of contractors are ranked equal, bid dossiers and dossiers of proposals of contractors with a total number of female employees or employees being war invalids or people with disabilities working under labor contracts of at least 3 months accounting for 25% or more, and of contractors being small-sized enterprises <u>and who have governmental-approved eco-friendly products and services</u> entitled to preferences under Clause 3, Article 14 of the Bidding Law shall be ranked higher than those of contractors not entitled to any preferences.	add env. protection activities as one of elements on preferential treatment and Reflect Mr. Nguyen Thi's comment
 3.~4. Skip Article 12. Making of bidding dossiers 1.~2. Skip 3. For bidding packages to procure goods, criteria for evaluation of bid dossiers include: a/ Criteria for capacity and experience evaluation b/ Technical evaluation criteria To use the pass-fail system or the method of point-rating according to a 100- or 1,000-point scale to develop technical evaluation criteria. In case of using the point-rating method, the minimum and maximum points for each general and specific criterion must be specified. Technical evaluation criteria shall be developed based on contractors' capacity to meet requirements on the quantity, quality and time of delivery of goods, goods transportation, installation and warranty as well as contractors' prestige expressed through their performance of similar contracts in the 	3.~4. Skip Article 12. Making of bidding dossiers 1.~2. Skip a/ Skip b/ Technical evaluation criteria Skip	

Detailed Interventions

			Comparison	3 1st certification criteria proposal for air conditioner [Table 2-16]			
Categories	Korea	Viet Nam	of levels	Criteria		Standa	ard suggestion
Prohibited Substances	The sum of Lead (Pb), Cadmium (Cd), Mercury (Hg) and their compounds, and hexavalent chromium (Cr6 +) compounds needs to be less than 100ppm. Alkyl phenol ethoxylates (APEOs), APDs, and alkylphenol derivatives, phosphates and boric acid, chemicals falling within the H-code classification according to the UN GHS for chemical classifications and labeling	Chemical substances registered in the nol ethoxylates (APEOs), list of chemical substance prohibited id alkylphenol derivatives, from exporting, importing, use and s and boric acid, chemicals distribution in accordance with the in the H-code classification to the UN GHS for chemical Carcinogenic chemical substances are ons and labeling arison of the criteria between Korean and Viet Nam (Detergent criteria proposal for wooden furniture [Table 2-14] Standard suggestion e 70% or more as a mass fraction Prohibited Use of Hazardous Substances		Synthetic resin Packing and packaging materials Energy consumption efficiency Refrigerant Recycling rate Prohibited substance Hazardous Substances	more th consid	Do not use halogen-based synthetic resin. The packaging damping materials, paints or pigments prepared by using more than 50% of the waste synthetic resin as a mass fraction are considered to have impurities and pollutants ≤0.01% (100 ppm) Viet Nam Energy Star The refrigerant has an ODP of 0, a GWP of 2,500 or less 80% or more as a mass fraction Flame retardants for each plastic component of an air conditioner which weighs more than 25g PBB: ≤ 1000 ppm PBDE: ≤ 1000 ppm Cd: ≤ 1000 ppm Hg: ≤ 1000 ppm Cf6+: ≤ 100 ppm	
Re	ecycling rate 7			Noise	Indoor Unit		Indoors: ≤ 55 Outdoors: ≤ 60
s	Substances				Noise [dB (A)] Outdoor Unit	Rated cooling capacity	Indoor side: 55 or less Outdoor side: 65 or less
Indoc	or air pollutants Fo	Formaldehyde Emission ≤1.0mg/L		[aB (A)]		10 ~ 35kW	
FSC	C certification (FSC	Use FSC certified materials (FSC 100% / FSC Mix / FSC Recycled)				Rated cooling capacity ≥35kW	Indoor side: 55 or less Outside: 70 or less

سمعت فالفام

② 1st certification criteria proposal for computer monitor [Table 2-15]

Criteria	Standard suggestion					
Synthetic resin	Do not use halogen-based synthetic resin.					
Power Consumption	International Energy Star or ∀iet Nam Energy Star					
	Pb, Cd, Hg and compounds thereof, Cr6 + compound					
Prohibited substance	SCCP (PBBs, PBDEs, chlorine concentration 50% or more) (C=10~13)					









Detailed Interventions

Category	NEW ZEALAND	MALAYSIA	BRAZIL	PROPOSED CRITERIA
	Manufacturers using post-consumer scrap must implement procedures to exclude feedstocks containing undesirable materials, including: (1) Radioactive materials (2) Polychlorinated Biphenyls (PCBs)	The steel scrap substitutes and recycled feedstock shall not contain radioactive materials.	hazardous substances prohibited by law,	The steel scrap substitutes and recycled feedstock shall not contain radioactive materials and polychlorinated biphenyls (PCBs)
Raw		For steel products used in construction using Electric Arc Furnace, the ferrous feedstock shall contain a minimum of 88% steel scrap.		For steel products used in construction using Electric Arc Furnace, the ferrous feedstock shall contain a minimum of 88% steel scrap .
materials		For steel products for Basic Oxygen Furnace, the ferrous feedstock shall contain a minimum of 70% steel scrap.		For steel products for Basic Oxygen Furnace, the ferrous feedstock shall contain a minimum of 70% steel scrap.
			process (as well as for the production of pig iron and other raw materials), the manufacturer shall ensure that the origin of the forest to be planted or	If using charcoal within its production process (as well as for the production of pig iron and other raw materials), the manufacturer shall ensure that the origin of the forest to be planted or legally authorized forests.

[Figure 3-4] Analysis of Steel Bar-Related Eco-labeling Criteria (Abridged)









Homework

- Outline the detailed interventions to improve overall policies and legal frameworks for GPP
- Outline the sector specific policies and legal frameworks for GPP
- Outline the certification system
- Outline the details for the implementation of outlined improvements













Thank you!

Mushtaq Ahmed Memon, Ph.D Regional Coordinator Resource Efficiency, UN Environment - Asia and the Pacific Office Project Manager, Regional Policy Advocacy of EU-funded SWITCH-Asia Programme memon@un.org

https://www.unenvironment.org/regions/asia-and-pacific