

"Pivoting Public, Private and People (3P) Transition to a Low Carbon Future"

(Creating a Blueprint for a Carbon Neutral City to Tackle Climate Change)

"推動 3P 轉型,邁向低碳未來"

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Agenda 議程

- Introduction to Singapore's Climate Commitments 新加坡氣候承諾介紹
- Sustainable Public Procurement (SPP) 永續公共採購 (SPP)
- The Role of the Singapore Environment Council 新加坡環境理事會的角色
- International Collaboration and Learning 國際合作與學習



Singapore Environment Council – Vision, Mission

OUR VISION AND MISSION

Established 1995

NGO and approved charity, offering tax exemption to donors



Accredited

in 2018

















ISO 17065:2012 ISO 14064-3:2019

Globally recognised over 80 countries



To be a trusted leader in environmental sustainability



我們的願景是成為環 境永續發展領域值得 信賴的領導者

OUR MISSION

To foster lasting environmental and societal values that encourage and achieve environmental sustainability by:

- Collaborating with people, industries and governments
- Setting sustainability standards for green consumerism
- Educating and empowering communities to lead green lifestyles
- + Promoting biodiversity in the urban environment
- Recognising environmental excellence by individuals and organisations

Pillars 9 UN SDG(s)

新加坡環境理事會 - 願景、使命

Driving Awareness of Sustainability Issues

Educating and empowering communities to lead green lifestyles through our Training & Education initiatives.

提高人們對永續發展議題的認識



Empowering Business and Consumer Action

Setting sustainability standards for green consumerism through the Singapore Green Label and Eco-Certifications.

賦能企業與消費者行動













Fostering Strategic 3P Collaborations

Collaborating with people, industries and governments through our Campaigns and Outreach initiatives.

促進公共、私營、民眾(3P)策略合作





Singapore's National Determined Contributions (NDC) and Commitment to Climate Change 新加坡的國家自定貢獻(NDC)和對氣候變化的承諾

2050年曾 現淨零排放



2030 年將排 放量降至約6 千萬噸二氧化 碳當量

Accelerating Low-Carbon Transition in Industry, Economy and Society

加速產業、 經濟、社會



4.採取低碳實踐

關鍵推動因素: 碳稅

到 2030 年, 每 噸二氧化碳當 量將達到 50-80 新元

> 公共、 私營、 民眾

EVERYONE CAN PLAY A PART

Public sector

Achieve net zero emissions across public sector around 2045 as part of GreenGov.SG



Private sector Develop and adopt low-carbon solutions, and pursue green

growth opportunities

Individuals Contribute to climate friendly initiatives



Singapore Environment Council

Singapore Mega Projects 2024 新加坡2024大型項目



Jurong Lake District-2030



North Coast Innovation Corridor-2030 R&D Center



Greater Southern Waterfront-2040



Singapore-China Guangzhou-Shenzhen Maglev Link-2027



Punggol Digital District-2030



Singapore Mega Projects - Jurong Island Net Zero 2050



UNEP Sustainable Public Procurement (SPP)

聯合國環境署永續公共採購(SPP)







- GEN member since 2011 自 2011 年起成為 GEN 成員
- Endorsed amongst 30 member countries worldwide 獲得全球 30 個成員國的認可
- ISO certification provides assurance ISO認證提供保證
- Global expenditure on procurement is estimated at \$9.5 Trillion USD annually.
- Public procurement accounts for 14% of EU GDP.
- SDG indicator 12.7.1: sustainable public procurement is necessary to achieve the SDG 12:
 Responsible Consumption and Production.
- Government purchasing power should be leveraged to buy the most sustainable products— the potential impact of SPP is significant, and an important lever to shift entire industries.

Sustainable Public Procurement Will Remain a Key Priority for GEN in 2024.

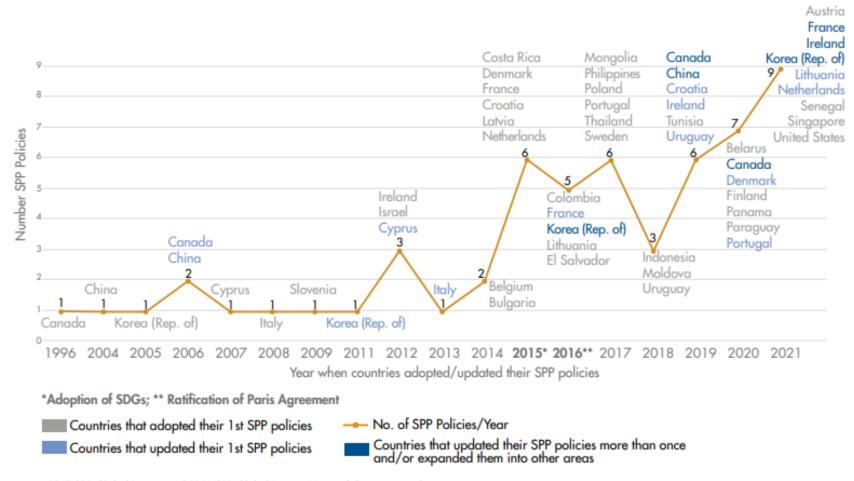
- Sustainable Purchasing Leadership Council
- Development Banks- focus on SPP



SPP is Building Momentum – Policy Framework SPP 正在積蓄動力——政策框架

Figure i. Adoption of SP policies among participating national governments

Since 2015, there has been a significant increase in the development of policies and legal instruments supporting SSP around the world.



自2015年以來,全球支持SSP的政策和法律文件的製定顯著增加.

Source: 2017 SPP Global Review and 2021 SPP Global Review National Government Questionnaire



https://www.oneplanetnetwork.org/sites/default/files/fromcrm/UNEP 2022 %2520SPP Global Review Part 1 0.pdf

Sustainable Public Procurement (SPP) 永續公共採購(SPP)

Key actors have increased the use of Sustainable Public Procurement (SPP) and Type-1 Ecolabels as tools to improve climate mitigation, biodiversity, and resource protection, through ambitious ecolabels, improved policy and legal frameworks, increased engagement of the private sector, as well as regional and global exchange.

Output I: Ambitious Ecolabels

Type -1 ecolabels with ambitious criteria have been developed or strengthened (UNEP)

Output II: Policy & Legal Frameworks

Policy and legal frameworks for Type-1 ecolabels and sustainable public procurement, are strengthened in target countries (GIZ)

Output III: Supply and Demand

Supply and demand for Type-1 ecolabelled products in target countries have increased. (GIZ)

Output IV: Global Exchange

Global and regional knowledge exchange on SPP and Type-1 ecolabels are increased (UNEP)





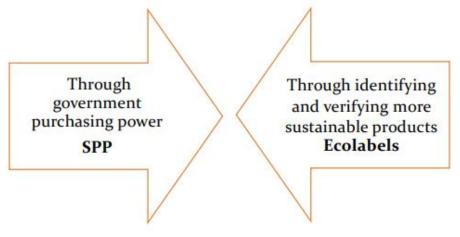




Ecolabelling are Used in the Elaboration of SPP Specifications

生態標章用於制定 SPP 規範

Combining SPP and Ecolabelling to stimulate the demand and supply of sustainable products





Links Between SPP Criteria and Ecolabels in Asian Policies			
Country		Link of the SPP criteria to the national ecolabels	Type I Ecolabel
China	٧	Direct in the regulation, products must be certified with the China Environmental Label	THE STATE OF THE S
Singapore	٧	Direct in the regulation, products must be certified by SEC and GreenGov.SG. Companies are eligible to secure green loans upon acquiring eco-labels and may also receive grants for obtaining certifications.	
Korea	٧	Direct in the Act, prod/serv must be certified or meet the criteria of Korea Eco-label, Good Recycled Mark or others set by the MoE	LOREA ECO-LAGR



International Green Purchasing Network (IGPN) Overview

國際綠色採購網(IGPN)概述



Promotes green purchasing around the globe by coordinating those who take the initiative in implementing green purchasing towards sustainable consumption and production



Mission

- Promote globally the development of Environmentally friendly products and services and Green Purchasing activities;
- Share information and know-how on Green Purchasing and environmentally friendly products and services internationally;
- Harmonize the efforts of Green Purchasing and the development of environmentally friendly products and services from a global viewpoint.
- Partners with Global Lead City Network (GLCN) on sustainable procurement, members with Global Ecolabel Network (GEN), collaborates with the Sustainable Public Procurement(SPP) Programme of UNEP One Planet Network, support UN SDG 12: Ensure sustainable consumption and production patterns.
- Members from countries such as China, Japan, Korea, Thailand, Malaysia, Singapore, the Philippines, India, Vietnam etc., and regions such as China Hong Kong SAR, and Chinese Taipei.



Enabling SPP Adoption Through GreenGov.SG (SEC's SGLS & Eco-Certifications)

透過生態認證和綠色DNA促進綠色採購的採用



Building Products
Cement and Precast
Concrete

Diloit

Tile /Ceramics

Paints and Surface Coatings

Carpets

Adhesives and Sealants

Panel Board

Surface Covering

Insulators

Textiles

Flooring

Dinos

Doors



Office Supplies & Equipment

Papei

Correction Fluid and Tapes

Copying, Fax machines
Printers and MultiFunctional Devices

Office Furniture

Ink and Toner Cartridge

Laptop

Monitor

Projector

Lamp (Modular)

LED Lights



Personal Care

Hair spray/Gel/ Mousse

Deodorant Stick/Roller/Spray

Shaving Foam & Cream

Cosmetics

Sanitizer

Face Mask



Household Appliances

Food Packaging, Crockery and Cutlery

Dishwashers

Electric Kettles

Espresso & Coffee Machines

Gas Cookers and Gas-Fired Appliances

Hot Water Storage Tanks

Oxo-biodegradable plastic products

Oven

Microwave



Cleaning Products

Detergents

Floor Cleaners

Industrial and Institutional Cleaner

Surface Cleaners
Hand Soaps

Die



Others

Soil Improver, Growing Media, Aggregate & Mulch

Product made from Recycled and or sustainable content

Products with recycled and or sustainable content

Biodegradable Products

Environmental Innovative Products

Fire Extinguishers

Automobile Tyres

Termiticides

Eco-friendly products
Hand Driers



Singapore's Aspirations Infused into the SG Green Plan 2030 新加坡綠色計畫 2030

- Singapore as a transhipment hub & global trading hub, savvy in international standards, living up to the name 新加坡作為轉運中心和全球貿易中心,精通國際標準
- Singapore as a centre for global arbitration (including green) for agreements 新加坡作為協議仲裁中心
- 3P People Public Private 公共、私營、民眾
- 3E Engage Enable Evolve 參與、促進、發展







SEC Enabling Green Agenda in tandem with Singapore Green Plan 2030 SEC 與新加坡綠色計劃 2030 同步實施綠色議程

Five Pillars of the Green Plan



City In Nature 自然之城



Energy Reset 能源重置



Sustainable Living 永續生活



Green Economy 綠色經濟



Resilient Future 彈性未來

Spearheaded By Five Ministries











SEC's Green Agenda

1. Green Buildings 綠建築

> 2. Clean Energy 清潔能源

> > 3. Adoption of Green Products 綠色產品

4. Sustainable Procurement 永續採購

5. Digital Green Passport 數位護照

SEC Strategic Initiatives SEC策略性舉措

SEC driving meaningful transformations and cultivating global partnerships

SEC推動有意義的轉型並培養全球合作夥伴關係

Regional and global expansions through Green Economy Agreements, growing bridges

SEC's mission as a council to establish

collaborations with social enterprises and the

people sector

SEC的使命是與社會企業和民眾建立合作

Leading the way in expanding international green

markets for environmentally conscious businesses

for enabling communities







































PD-2018-20





SEC Strategy Aligns with Green Future SEC 策略與綠色未來保持一致









Green standards and certifications will change the competitive landscape of industries and the players within them.

































The Green Seeds of Innovation 創新的綠色種子

The desire to go Green forces companies to reinvent products, services, and business models in new ways. (eg. Carbon tax, Packaging Legislation)



Minimising Environmental Impact across a product lifecycle from development to disposal and beyond using technology

Green Goes Collaborative (3Ps) 綠色協作

Collaboration between the public, private, people and NGOs is key to achieving global and local emissions targets.







Source: Future of Green Business Strategy, Future Think LLC

Role of Singapore Environment Council (SEC) - Public

新加坡環境理事會(SEC)的角色 - 公共

International MRAs & MOUs

- China CEC (2014)
- Japan Eco-Mark (2015)
- Korea Eco-Label (2018-2019)

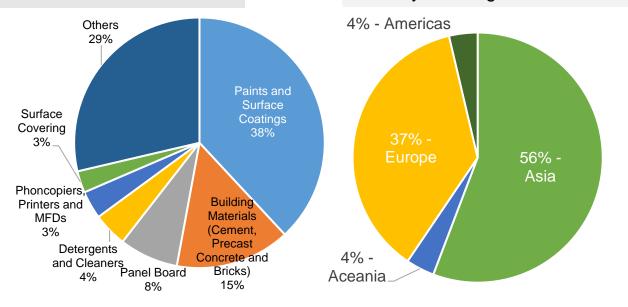
Product Penetration 產品滲透率

- Australia GECA (2022)
- TCO Certified (2023)
- EPEAT (2024)



國際諒解 備忘錄和 互認協議

Country Coverage 國家覆蓋範圍





綠色標籤

Green Label

Green Label Plus

Coverage

- **74** product categories
- 4,000 products certified
- **800** companies
- **50** countries



















The MyHijau Mark

Denoting compliance to global environmental standards, the MyHijau Mark is a consolidation of regional and international green certifications.





































Role of Singapore Environment Council (SEC) - Public 新加坡環境理事會(SEC)的角色 - 公共



Green Industries to spur Green Recovery (Circular Economy & Digitalization)

- •Build 30 X 30 Food Resilience 建立糧食彈性
- Clean & Green standards; high-tech farming; scale technologies; accelerate food production
- Packaging Circular Economy
 包裝循環經濟
 EPR by 2025 new ecosystem for product/packaging design innovation; waste reduction

•Sustainable Tourism MICE, Hospitality 永續旅遊

promote **resource circularity**; **reduce/recycle** food & packaging waste

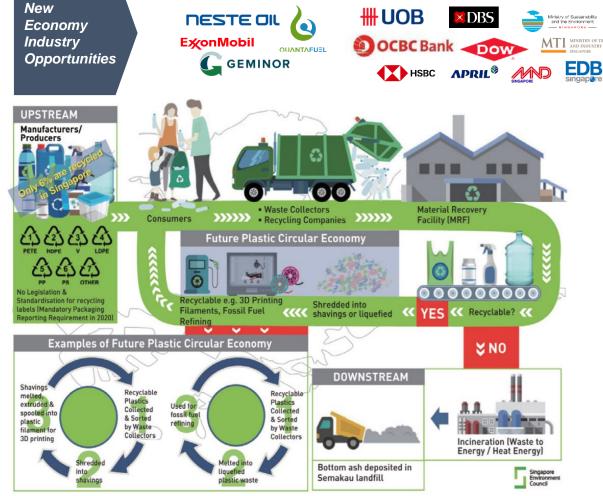
• Sustainable Manufacturing 永續製造 de-carbonize, reduce environmental impact in supply chains; Digitalize



Role of Singapore Environment Council (SEC) - Private

Waste to Value (new products)

新加坡環境理事會(SEC)的角色 - 私營



Waste to Biofuel

Plastic Extrusion Vendors







Infrastructure基礎設施

- Standardisation of Recycling
- Integrated Waste Management System (sorting and recycling at waste-toenergy site)
- · 'Karang' Guni' (Collectors)



Policy 政策

- Step-wise elimination of single-use plastics
- Labeling of plastics
- Compulsory recycling at commercial facilities



Campaign 活動

- Raise awareness on types of recyclables, recycling methods
- Replace Single-Use Plastic Bags/Rolls with Alternatives



Innovation 創新

- Build Market for Recycled Plastic
- Create New Industries (\$500M)

Role of Singapore Environment Council (SEC) – SG People 新加坡環境理事會 (SEC)的角色 - 民眾



- Launch of biodiversity and eco trails for environmental awareness
- Drive the adoption of green label products and eco-certifications in homes and offices
- Lead people and communities to adopt sustainable consumption practices/habits and contribute to environmental programmes.





Ministry of Sustainability and the Environment



綠色家園 Green Homes

- Working with Northwest CDC to promote Green Homes by providing incentives to home-owners who buy energy-efficient home appliances eg. TV.
- Exploring Solar Energy Program with Sembcorp and their manufacturer to make HDBs more energy efficient.

Energy Reset

能源重置



Sustainable Living

Green Schools



- Annual School Green Awards incorporate 2030 Green Plan themes towards carbon neutral outcomes.
- Education on sustainability through learning journeys and workshops.
- Aligning with 4 'C's of Eco Stewardship Program. (Curriculum, Campus, Culture, Community)
- Embark on waste reduction initiatives such as Coca Cola & Epson projects with IHLs.



Sustainable Living









Role of Singapore Environment Council (SEC) – Asia People

新加坡環境理事會(SEC)的角色-民眾















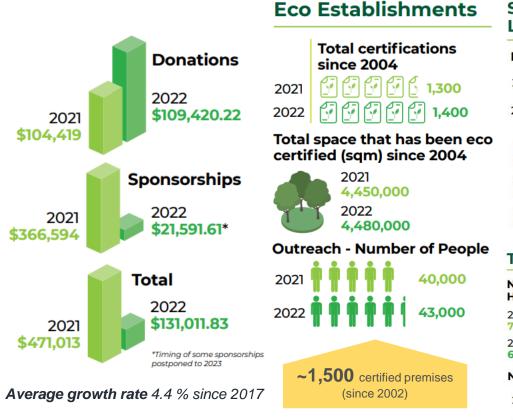


- Coral Planting 珊瑚種植
- River Cleaning 河道清理
- Coastal Cleaning 海岸清潔
- Blue Label for Oceans & Rivers 海洋和河流藍色標籤

- Sponsor or Donate-a-Trail, Workshop, Event etc. 贊助或捐款 路線、研討會、活動
- School Green Awards (SGA) 綠色學校獎
- Singapore Environment Achievement Awards (SEAA) 新加坡 環境成就獎



SEC Key Accomplishments 2022 SEC 2022 年主要成就



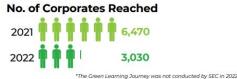
Singapore Green Labelling Scheme (SGLS) No. of Products Certified





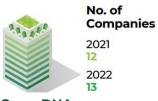
Training and Education





SGLS+ for Pulp and Paper



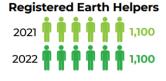






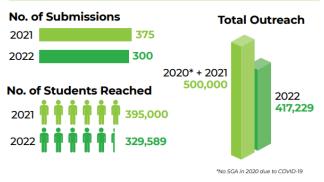








School Green Awards (SGA











































~1.000 Earth Helpers

(since 2002)























International Collaboration and Learning 國際合作與學習



CEC-SEC



MOU for Sustainable IT products



Collaboration with Australia GECA



MRA with Japan Eco-Mark



Concluding Remarks 結束語

- We Welcome Collaborative Efforts for Sustainability with Other Countries 歡迎其他國家和我們合作推動永續發展
- Empowering a Sustainable Future 賦能可持續的未來









THANK YOU 謝謝

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