Unlocking the Market Potential in Asia Pacific and Middle East through Ecolabelling - The way Taiwan work for it?

Speaker: Dr. Chen-Yi SUN (Justin)

(justin.sun.tw@gmail.com)

Secretary General, Taiwan Green Building Council
Professor, Department of Land Economics, National Chengchi University







Four strategies for promoting green buildings and green products:

Green building policy

Evaluation system



(green building evaluation system and green material label)

Educational promotion activities

Commercial promotion activities

Green building policy in Taiwan

1995 Addition of the green building design and energy saving strategies to the Building Act

1999 Establishment of the "Green Building Evaluation System, EEWH"

1999 Establishment of "Green Building Committee"

2001 "Green Building Promotion Program" (2001-2007) (US\$60 million)

2002 Public buildings must meet the "EEWH" standard (NTD 50 million or

more (about 1.6 million US dollars))

2003 Started the selection of the "Taiwan Green Building Award" (every two years)

2004 Established the "Green Building Materials Label" certification system

2005 Established "Taiwan Green Building Council"

2006 Public buildings need to use 5% (or more) green building materials for interior decoration.

2007 Green Building Label was divided into five grades (qualified, bronze, silver, gold, and diamond)









Green building policy in Taiwan

2008 "Eco-City Building Promotion Program" (2008-2011) (total funding of NTD 2 billion (\$64 million))

2009 Requires indoor decoration green building materials usage ratio to 30%.

2009 Hosted "2009 Conference on Green Building Towards Eco-City".2010 extra 6-10% GFA for Urban renewal projects if the building can

reach the green building standard above the silver level.

2011 "Smart Green Building Promotion Program" (2010-2015) (total funding is NT\$3.236 billion (approximately US\$100 million))

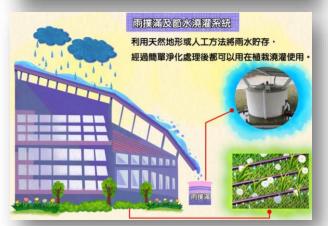
2011 Green Building Education Demonstration Base Promotion and Eco-city Green Building Promotion Program

2012 All new buildings should be designed as green building (not only for public buildings at all).

2012 Rainwater or grey water recycling system must be installed in new buildings with a total floor area of over 10,000 m².







Green building policy in Taiwan

2012 The use ratio of indoor decoration green building materials to 45%, and for outdoor floor materials should be more than 10%.

2016 "Permanent Smart City – Smart Green Building and Community Promotion Program" (2016-2019) (Total funding is 27.44 billion yuan (about US\$88 million)

2017 The "Green Building Assessment Manual – Overseas Edition (EEWH-OS)" was established to become the sixth family member of this "Green Building Family Assessment System".

2018 Hosted "2018 Conference on Innovative Low-Carbon and Green Buildings in Subtropical Area".

2019 Announcement of the 2019 version of the "Green Building Family Assessment System".

2019 Improve the use ratio of indoor decoration green building materials to 60%, and the use rate of green building materials for outdoor floor materials should be more than 20%.



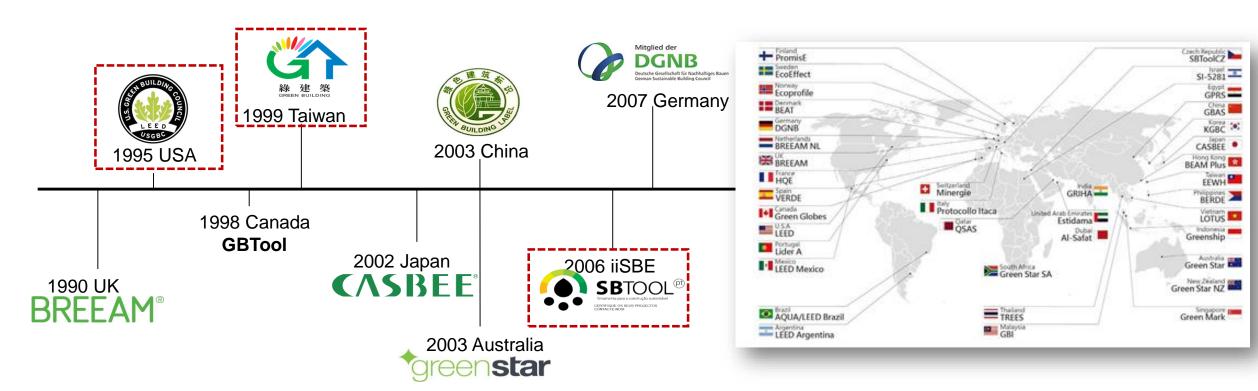




Evaluation system of green building in Taiwan

- Low resource consumption, low waste discharge/produce
- User friendly & environmental friendly.





Evaluation system of green building in Taiwan



綠建築九大評估指標系統與地球環境關係

指標群 category	指標名稱 indicator	與地球環境關係 related to environment					
		氣候	水	土壤	生物	能源	資材
category	illuicatoi	air	water	soil	species	energy	material
生態 Ecology	1.生物多樣性指標 biodiversity	*	*	*	*		
	2.綠化量指標 greenery	*	*	*	*		
	3.基地保水指針 Water retention	*	*	*	*		
節能	4.日常節能指標 Energy saving	*				*	
Energy							
減廢	5. CO ₂ 減量指標 CO2 reduction			*		*	*
Waste	6.廢棄物減量指標 Waste reduction			*			*
reduction				•			'n
	7.室內環境指標 indoor environment			*		*	*
健康	8.水資源指標 water resource	*	*				
Health	9.污水垃圾改善指標 sewage &		*		*		*
	garbage Improvement						



Certification system of green building Materials in Taiwan

- Reuse—Use again for more than once
- Recycle—Cycle again
- **Reduce**—Reduce the quantity
- Low emission materials—Low pollution

Four kinds of Green Building Material in Taiwan:

- (1) Ecological Green Building Material
- (2) Healthy green building materials
- (3) High-performance Green Building Material
- (4) Recycling Green Building Material

In 2019, the Building Act raises the limit of the use rate of green building materials in building decoration areas (indoors from 45% to 60% and outdoor from 10% to 20%) for implementing carbon reduction and waste reduction.





Educational promotion activities



Green Building Workshop



Handbook of green building









Green Building Guide Training Course



Green building case visit



Magazine report

Educational promotion activities



Green Building Low Carbon Sightseeing Booklet

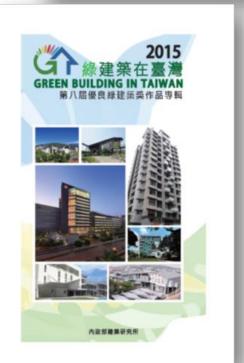
Green Building Excellent
Case Interpretation Booklet

Green building painting competition









Outstanding green building selection



Green Building
Professional Lecture

Commercial promotion activities

from Education to Application

-Counterweight

PMSM





Green Building Education Teacher Training

以緣建築的發展背景、技術應用 工作坊的實作演練·培訓綠建築 教育種子師資。



Green building digital teaching materials

> 以繪本圖像方式深入淺出介 套綠建築科普課程

Education

解綠建築永續環境理念。

推動國民中小學導入綠建築科 普教育課程,師生共同學習瞭





Green building field trip

Green building

painting competition

協助規劃安排綠建築案例校



綠建築數位教學











PLIMATES







Commercial promotion activities

from Education to Application

Intelligent Building

Bath & Kitchen Facilities



Energy saving system / Energy Saving Method Energy Saving Materials