



2017 尋找綠巨人
In Search of a Green Giant

8-10 June, 2011

“ Improving Eco-Efficiency: Green Growth
for Local Governments “ workshop in Jeju

The environmental protection actions of Taichung city against global warming and climate change



HSIN-YUN CHEN

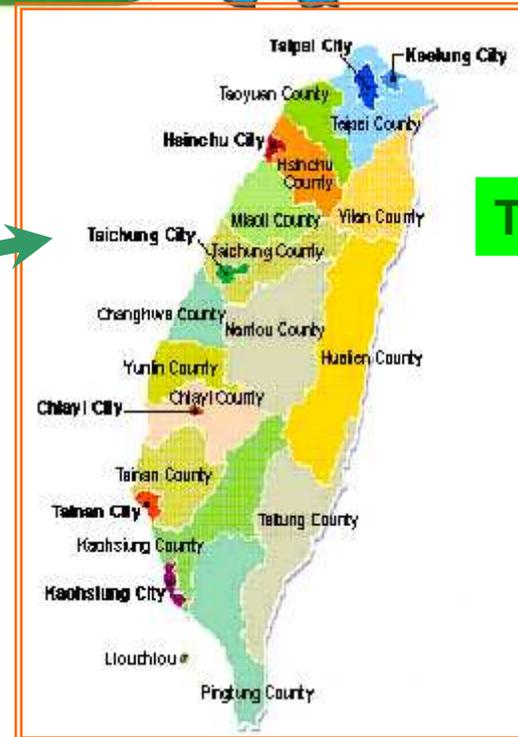
Technical specialist

Environmental Protection bureau
of Taichung city government

Introduction to Taichung



2017 尋找綠巨人
In Search of a Green Giant



Taiwan Map

- On the 25th December 2010, it merged with Taichung County to form a single direct-controlled municipality.
- Population (2010): 2.64 million
- Area: 2,215 km² (855.2 sq mi)
- 29 administrative districts



Preface



2017 尋找綠巨人
In Search of a Green Giant

- While the negative impacts from global warming and climate change are getting worse, greenhouse gas emission reduction has been included in the major policies by all nationalities. To follow the international trends, Taichung City government has shown its enthusiasm by constructing itself to be an eco-city or a low-carbon city.
- In the process of developing a low-carbon city/eco-city, meanwhile, it is crucial to maintain the economic growth in Taichung City.
- ” In search of a green giant” is a slogan which represents the public responses on supporting eco-city construction.

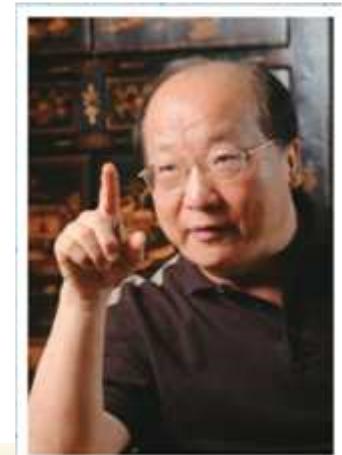


Vision of Taichung



2017 尋找綠巨人
In Search of a Green Giant

- The ongoing urban renewal and green growth plan in Taichung City will be the best preparation of 2017 East Asia Games.
- Low-carbon life is not just a policy option. It's our ultimate destiny.- Jason Hu, Mayor Taichung city



Vision of Taichung



2017 尋找綠巨人
In Search of a Green Giant

- Taichung city's government makes efforts to promoting green transportation, recycling, LOHAS life, renewable energy, energy conservation, green building and tree planting.
 - The concept of “creative city”
 - Create new concepts, products, services and system in order to stimulate the growth of economy.
 - We are doing our best to coherence the power of the major citizen (critical mass). To reduce the impact of climate change to a minimum.

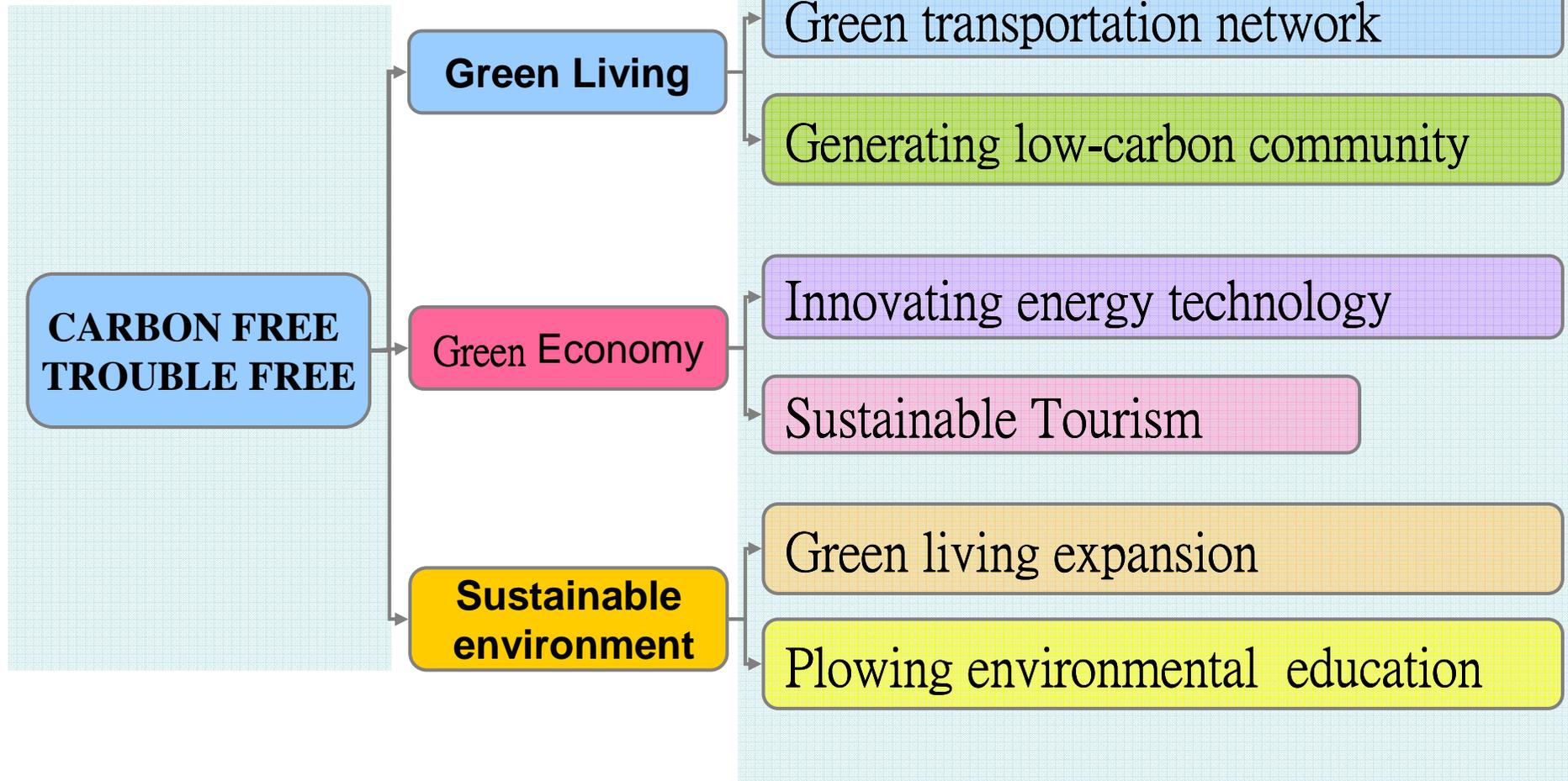




1 Vision

3 Targets

6 Actions



Green Transportation



2017 尋找綠巨人
In Search of a Green Giant

- Public transport system(MRT、BRT) establishment
- Private vehicles reduction
- Transportation management
- Subsidies on replacement vehicles consumption



MRT



Electric buses



Electric taxi



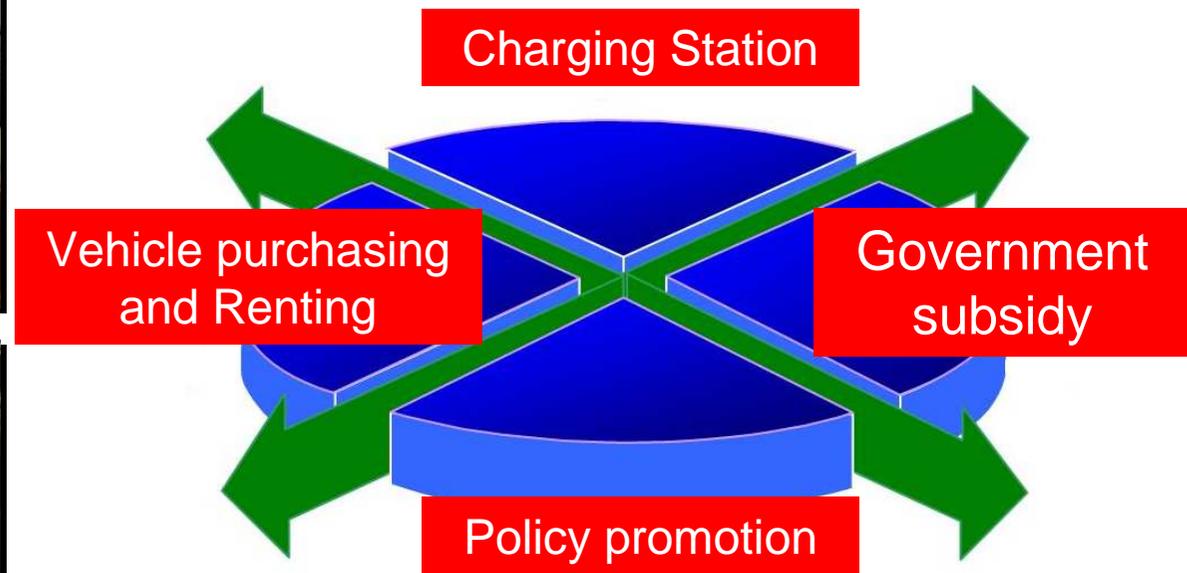
Green Transportation



- Electric Vehicle Partner Program” was signed by the mayor of Taichung city, Nissan Motor Co., Ltd and Yulon Motor Co., Ltd



MOU



Green Transportation



2017 尋找綠巨人
In Search of a Green Giant

- Electric car/scooter industry is encouraging to develop relative products in Taichung City
- Electric vehicles are firstly used by cleaning workers, which is the best demonstration to the public.



Green Energy



2017 尋找綠巨人
In Search of a Green Giant

- Promotion of renewable energy
- Energy conservation by Energy Service Companies (ESCO)
- Installation of wind power generating equipment in high-rise balcony
- The use of LED lights
- Subsidies on the solar hot water system purchasing

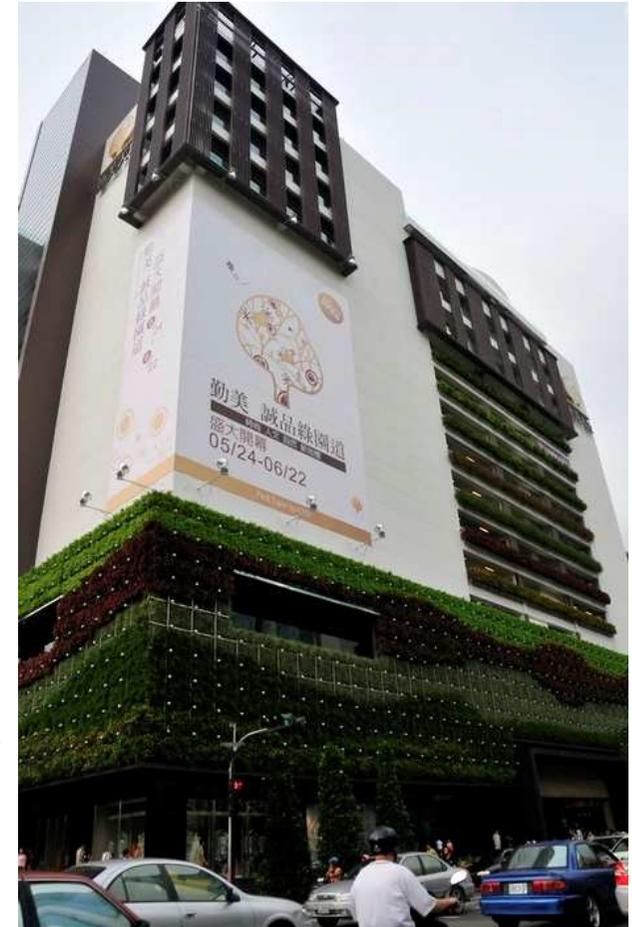


Green Building



2017 尋找綠巨人
In Search of a Green Giant

- PARK LANE
 - Originally, the building is an old department store
 - More than 150,000 used the building from planting
 - Asia's largest wall of vegetation, with a total area of up to 1982 m²
 - Absorb 200 kg of carbon dioxide per day, and oxygen can produce 150 kg.
 - Win 2010 FIABCI prix d'excellence Award



“FIABCI” is French acronym for international real estate federation



臺中 · 您最好的選擇

Innovation of Construction site fence



2017 尋找綠巨人
In Search of a Green Giant

- **The builders are requested to set up green fence instead of traditional ones.**
- Differ from material and design, a unit (1 meter long × 1.8 meter high) of Green fence costs US\$ 200 to 450 (including zinc-plated iron skeleton, sprinkler, and plants)
- 10 units of green fences can reduce 540 tons of CO₂ emission, equals to planting 45 thousands trees.
- **Builders are willing to practice eco-efficiency and get more profitability of building price.**



Green Mark Promotion



2017 尋找綠巨人
In Search of a Green Giant

- Our Green Mark verification mechanism is instructed by the central government.
- Enterprises are encouraged to certify their products with the Green Mark.
- Recyclable, low-pollution and Saving natural resources
- promote “Public Green Consumption and Green Procurement Promotion” since 2007 .



Earth wrapped in a leaf



臺中 · 您最好的選擇

Prospects (一)



2017 尋找綠巨人
In Search of a Green Giant

- Green growth
 - Remove barriers to green growth
 - Reform environmentally harmful subsidies
 - Remove barriers to trade in environmental goods and services
 - Strengthen policy coherence
 - Promote trajectory shift
 - Adopt an integrated policy mix: market and non-market based instruments
 - Accelerate the innovation and diffusion of green technologies
 - Encourage measures for greener consumption and develop innovative financial mechanisms
 - Support the transition
 - Smooth reallocation of labor through key labor market and training policies
 - Upgrade workers' skills and competencies
 - Address distributional effects of the associated structural change



Prospects (二)



2017 尋找綠巨人
In Search of a Green Giant

- Green growth
 - Strengthen international cooperation
 - Improve financing mechanisms for global public goods
 - Enable pro-poor green growth
 - Address potential competitiveness issues
 - Promote technology transfer and R&D co-operation
 - Measure progress
 - Develop a new accounting framework and a set of green growth
 - Measure impact of specific policies



Conclusion (一)



2017 尋找綠巨人
In Search of a Green Giant

- ✚ Key factor of successful low-carbon city development for a local government
 - the policies and budgets of central government
 - ecosystem and protection
 - geography and natural resources
 - reasonable cost and subsidization
 - consciousness and support of citizens



Conclusion (二)



2017 尋找綠巨人
In Search of a Green Giant

- ✚ Key to low-carbon city development
 - complete plan
 - reducing carbon emission
 - low-carbon strategy
 - support and participation of citizens
 - cooperation
 - finance management
 - evaluation on achievements



臺中 · 您最好的選擇

From *Titanic*



2017 尋找綠巨人
In Search of a Green Giant

- ② If the appearance of Titanic symbolizes the pride of human civilization, what is the iceberg?
- Now If we were the passengers on the Titanic when it was going to crush into an iceberg. Even though some warnings were made in prior to the disaster, however, the only thing we could do is try our best to minimize the damage. **Similarly, to face global warming effect, we have nothing else to do but only try our best to minimize the harm.**





2017 尋找綠巨人
In Search of a Green Giant

THANK YOU



臺中 · 您最好的選擇