



# **Singapore's NAMA: Journey to a Pledge**

Summer School 2013

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National Climate Change Secretariat

# Overview

- Singapore's NAMA and mitigation measures
- Key elements of coming up with the pledge
- Benefits of a pledge
- Summary

# Singapore's NAMA and Mitigation Measures



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# NAMA- Emissions Reduction Pledge

To undertake mitigation actions leading to a reduction of greenhouse gas emissions by 16% below business-as-usual (BAU) levels in 2020, contingent on a legally binding global agreement in which all countries implement their commitments in good faith

- Although a legally binding agreement has yet to be achieved, Singapore will nonetheless begin to implement the mitigation measures
  - towards **7 – 11% reduction** in GHG emissions below business-as-usual (BAU) levels in 2020

# Key Mitigation Strategies

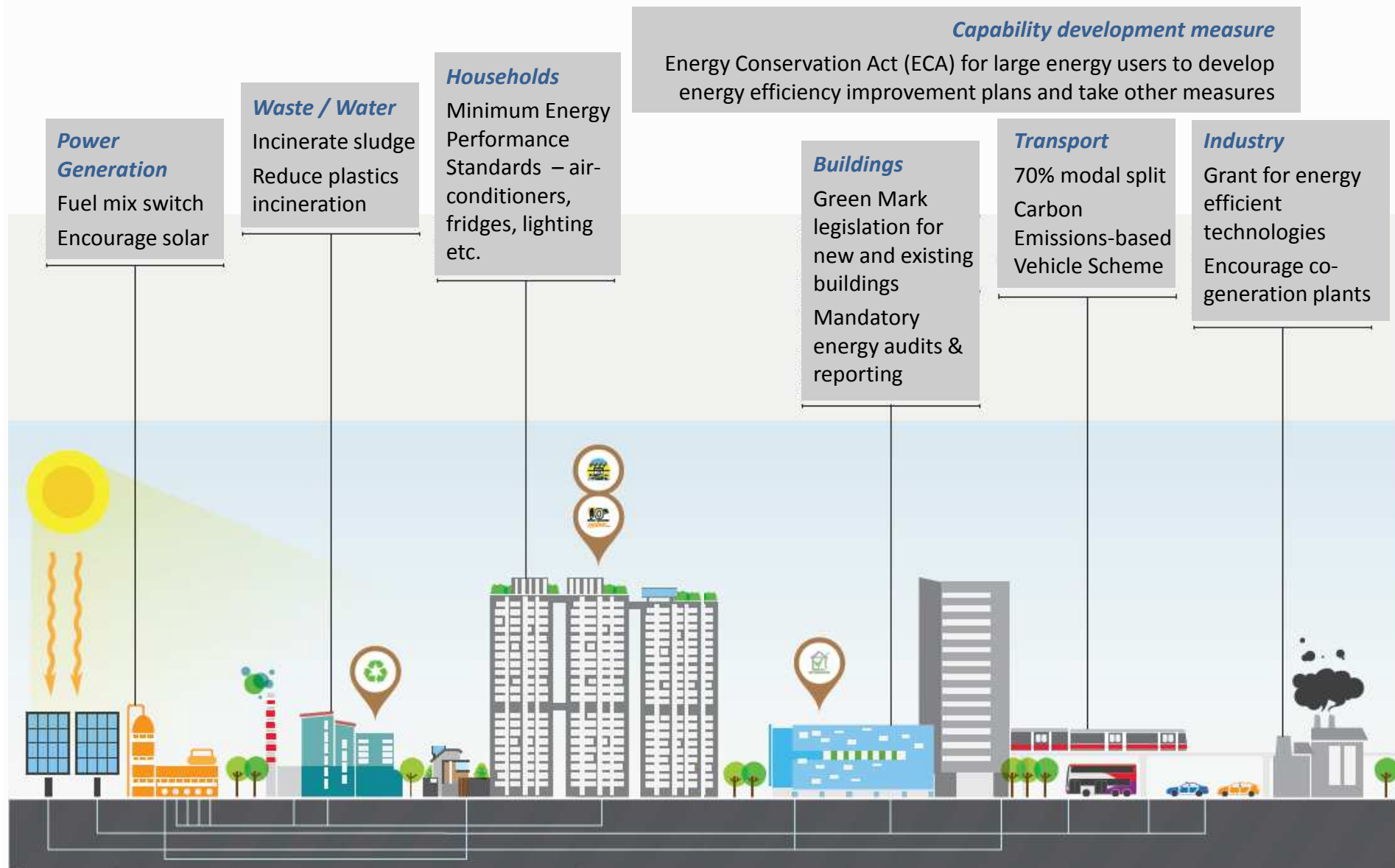
## Strategies

- Improving Energy Efficiency
- Greening Fuel Mix
- Adopting Low-Carbon Technologies

## Tools

- Policies, Regulations, Business Models
- Capability Building, Technologies, R&D
- Incentives

# Mitigation Measures



# Key Elements of Coming Up With a Pledge



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# Consider the Context: National Circumstances

- Small (700km<sup>2</sup>), island state
- Low-lying ,flat coastline
- Highly urbanised, densely populated
- Early actions
- Development constraints





# Consider the Context: Alternative Energy Disadvantaged



Low wind speeds



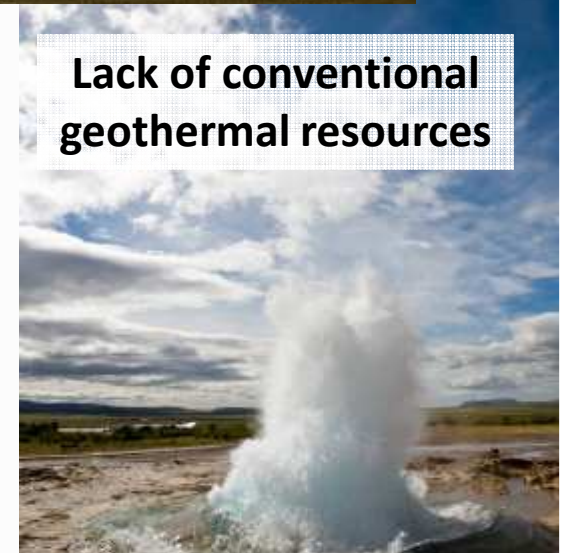
Nuclear energy technologies not yet suitable for deployment in Singapore



No large river systems



Unlikely to provide base-load because of intermittency & limited land



Lack of conventional geothermal resources

# Whole of Government Approach

- Agencies:**
- NCCS
  - MEWR
  - MFA
  - MTI
  - MOF
  - MOT
  - MND
  - NRF

**Inter-Ministerial Committee on Climate Change**  
Chaired by Deputy Prime Minister Teo Chee Hean

**IMCCC Executive Committee**  
Chaired by National Climate Change Secretariat

Secretariat:  
**National Climate Change Secretariat**

**Mitigation**

**Long-Term Emissions and Mitigation Working Group**  
Chaired by NCCS and MTI

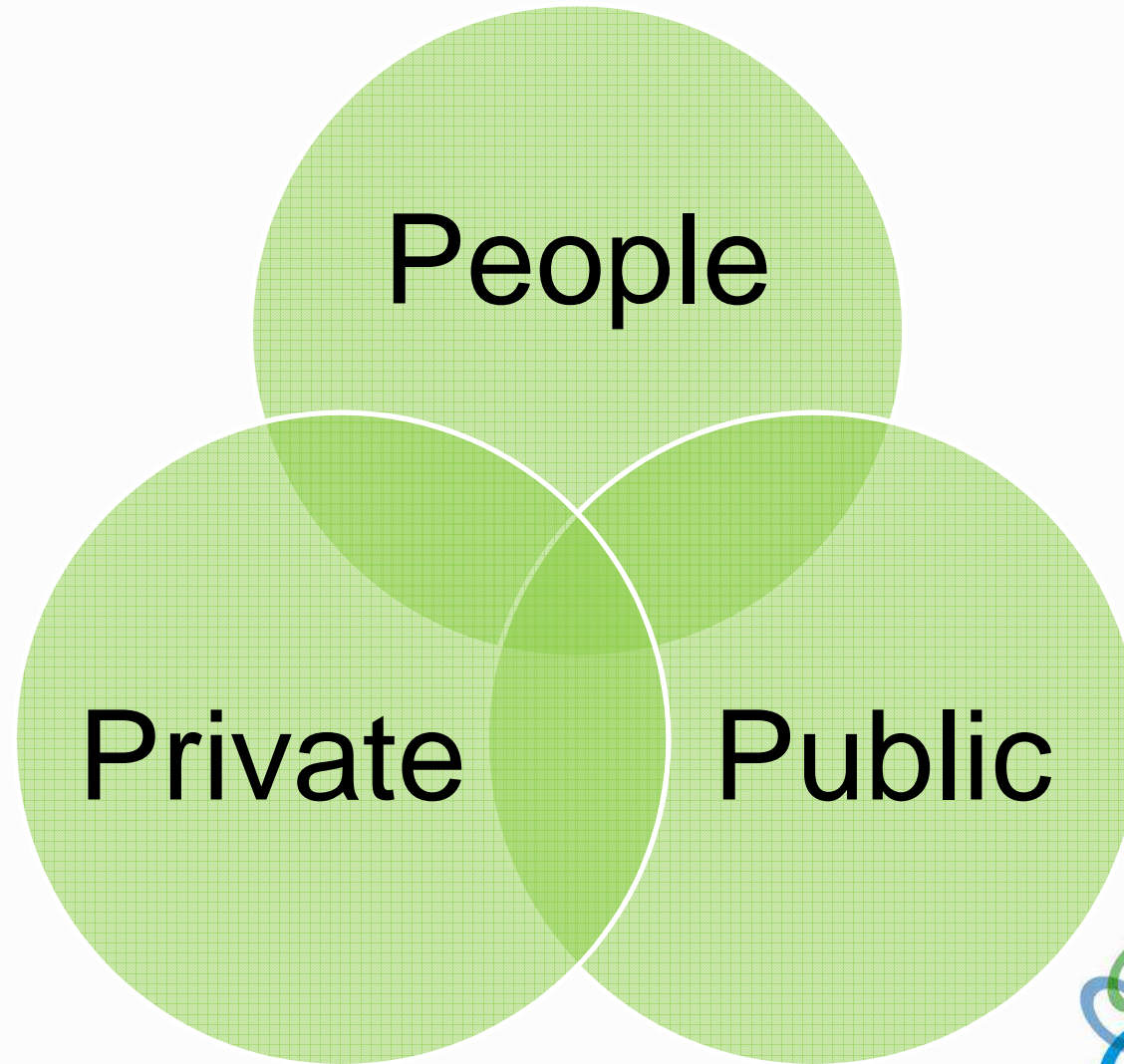
**Negotiations**

**International Negotiations Working Group**  
Chaired by MFA

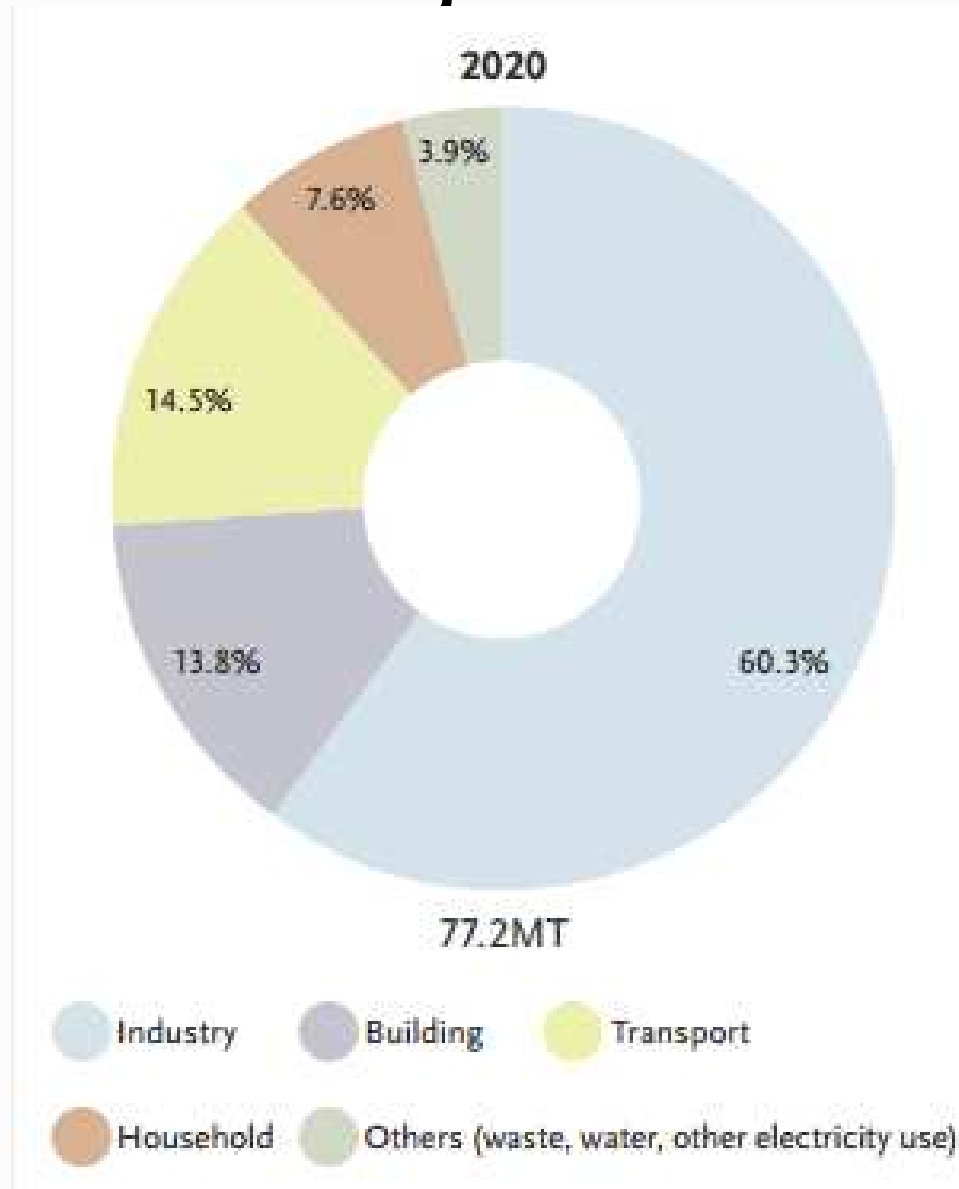
**Adaptation**

**Resilience Working Group**  
Chaired by MND and MEWR

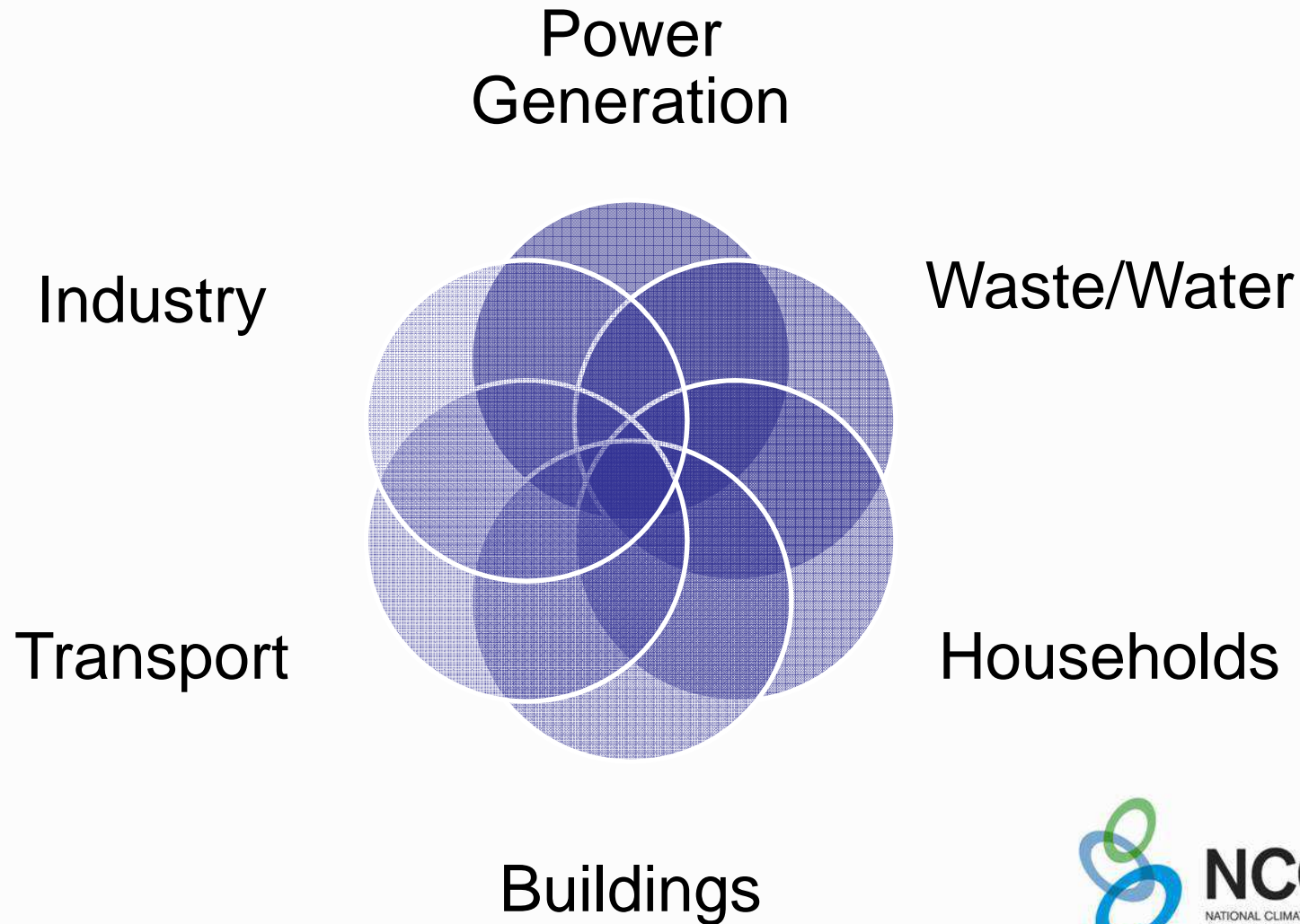
# Engagement of Stakeholders



# Projections



# Prioritization and Consolidation



# Leadership and Political Will



***“Our vision for Singapore is a climate resilient global city that is well positioned for green growth... Together, we can ensure that Singapore remains a vibrant and liveable nation for our future generations.”***



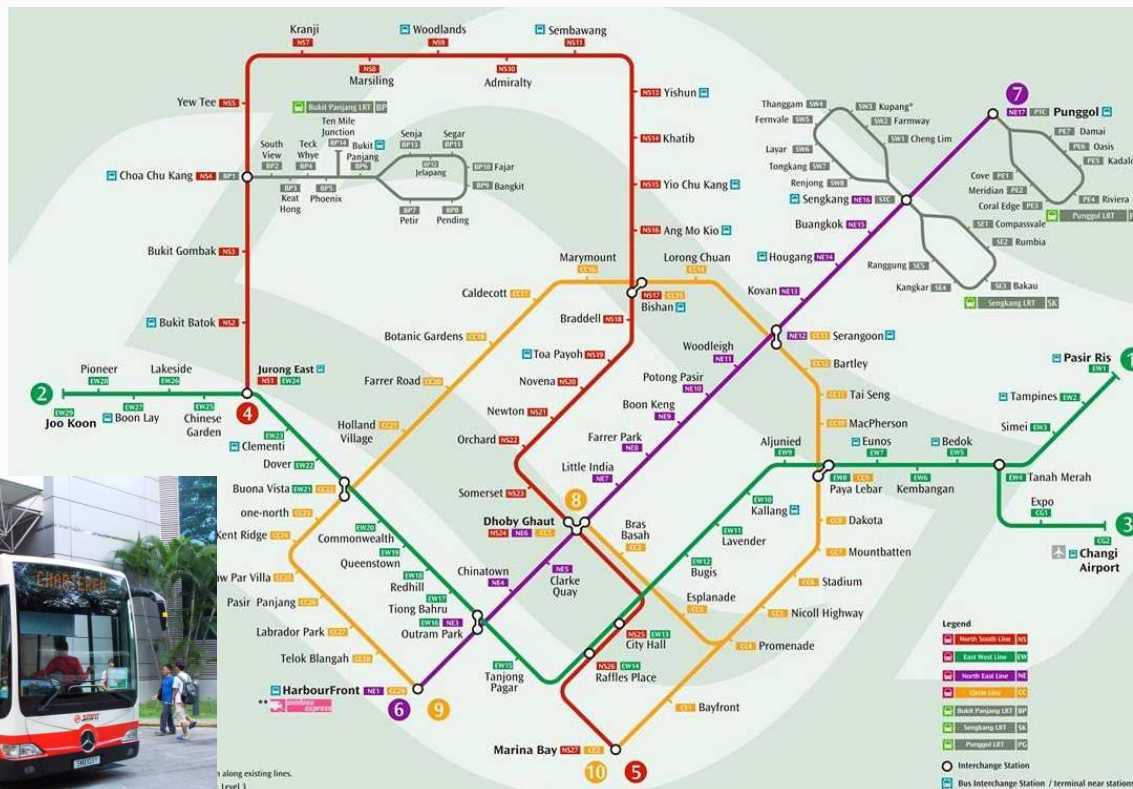
## Example 1: Fuel Mix Switch

- Switched away from fuel oil to natural gas
- 80% of Singapore's electricity generated by natural gas
- Exploring ways to increase our use of solar energy



# Example 2- Mitigation Measures in the Transport Sector

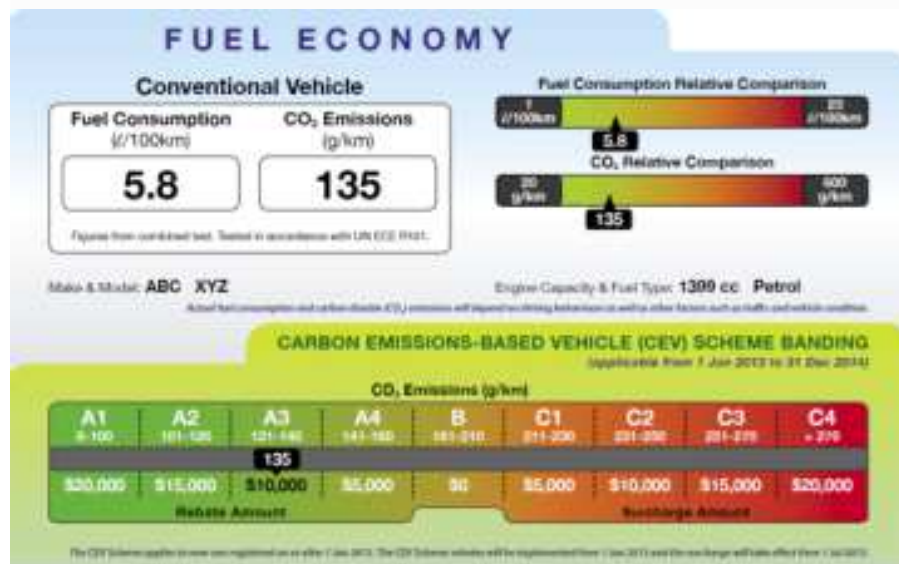
- Encouraging increased use **public transport** – aim to achieve **70:30 modal split**





## Example 2- Transport Sector

- **Greening private transport**
  - Mandatory Fuel Labelling Scheme
  - Carbon Emissions-based Vehicle Scheme



Band	CO <sub>2</sub> (g/km)	Rebate/Surcharge* for Cars
A1	0 to 100	\$20,000 rebate
A2	101 to 120	\$15,000 rebate
A3	121 to 140	\$10,000 rebate
A4	141 to 160	\$5,000 rebate
B	161 to 210	0
C1	211 to 230	\$5,000 surcharge
C2	231 to 250	\$10,000 surcharge
C3	251 to 270	\$15,000 surcharge
C4	271 & above	\$20,000 surcharge

# Example 3 - Buildings Sector

- All new buildings and existing buildings undergoing major retrofitting to achieve minimum Green Mark standards.
- To cover 80% of buildings by 2030



- Financial Incentives
- Mandatory audits and reporting
- Green Mark standards help buildings achieve energy savings of 20%-40% over their lifetimes

# Benefits of a Pledge



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# Benefits of a Pledge

- Responsibility
- Guides action
- Common goal across sectors
- Mainstreaming of climate change priorities

# Summary

- Singapore's NAMA and mitigation measures
- Key elements of coming up with the pledge
  - Consider Context
  - Whole of Government Approach
  - Engagement of Stakeholders
  - Projections
  - Prioritization and Consolidation
  - Leadership and Political Will
- Pledge has been beneficial

# Questions?

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