Iskandar Malaysia
5th High Level Seminar on Environmentally Sustainable Cities
Session B2: Topic - “Low Carbon Cities Planning and Management”

28 Feb – 01 March 2014
By Boyd D Jouman, SVP Environment
Geographical Location: Iskandar Malaysia in Johor State

- 2,217 sq km (547,830 acres)
- 19,210 sq km (4,744,670 acres)
Introducing Iskandar Malaysia – 5 flagships
Iskandar Malaysia Vision

“Strong and Sustainable Metropolis of International Standing”
Green-focused Agenda - Rationale

Aligning the Vision with Low Carbon Society Development

**ISKANDAR MALAYSIA VISION:**
STRONG, SUSTAINABLE METROPOLIS OF INTERNATIONAL STANDING

- **STRONG**
  - PROSPEROUS, RESILIENT, ROBUST, GLOBALLY COMPETITIVE ECONOMY
  - HEALTHY, GLOBALLY COMPETITIVE, KNOWLEDGEABLE SOCIETY

- **SUSTAINABLE**
  - LOW CARBON BUILT ENVIRONMENT & SOCIETY

- **INTEGRATED GREEN TRANSPORTATION**
  - GREEN INDUSTRY
  - LOW CARBON URBAN GOVERNANCE
  - GREEN BUILDINGS & CONSTRUCTION
  - GREEN ENERGY SYSTEMS & RENEWABLE ENERGY
  - LOW CARBON LIFESTYLE
  - COMMUNITY ENGAGEMENT & CONSENSUS-BUILDING
  - SMART URBAN GROWTH
  - WALKABLE, LIVABLE & SAFE CITY DESIGN
  - GREEN & BLUE INFRASTRUCTURE & RURAL RESOURCES
  - CLEAN AIR ENVIRONMENT
From Science to Policy: Potential GHG reduction – 40%

Figure 1: GHG emissions by sectors
Launching of the Low Carbon Society Blueprint – COP18 Doha 2012 and COP19 Warsaw 2013
## LCS Actions for IM by Three Main Themes

### Development of Low Carbon Society Scenarios for Asian Regions

<table>
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<tr>
<th>Action Names</th>
<th>Themes</th>
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<tr>
<td>1 Integrated Green Transportation</td>
<td>GREEN ECONOMY</td>
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<td>2 Green Industry</td>
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<td>3 Low Carbon Urban Governance</td>
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<td>4 Green Buildings &amp; Construction</td>
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<td>5 Green Energy System &amp; Renewable Energy</td>
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<td>6 Low Carbon Lifestyle</td>
<td>GREEN COMMUNITY</td>
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<td>8 Walkable, Safe, Livable City Design</td>
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<td>9 Smart Growth</td>
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<td>10 Green and Blue Infrastructure &amp; Rural Resources</td>
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<td>11 Sustainable Waste Management</td>
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<td>12 Clean Air Environment</td>
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Green Economy: On-going

**Green Transportation**
- Public transport system improvement
- Bas Iskandar Malaysia - social route
- BeXTRA - BAS EKSPRES TRANSIT-express, limited transit point
- Improve JB - Singapore, JB-KL Connectivity
- UNDP/GEF Low Carbon Cities

**Low Carbon Urban Governance**
- Governance Structure
- Implementation of Programmes
- Specification Cards
- Danga Bay proposed waterfront project

**Green Industry**
- Promote the ecological & economic benefits of greening existing industries
- (Thru facilitation of investment and new development)
- Training programmes
- Green Economy Guidelines
- Expert Talk Series

**Green Building and Construction**
- Promote and Facilitate Green Building in New Construction
- Danga Bay proposed waterfront project
- District Cooling
- CASBEE/GAIA

**Green Energy System and Renewable Energy**
- Promotion of Renewable Energy for new development
- SEDA’s role –FIT; Renewable Energy
- Biomass
Low Carbon Cities Policy Package

**Buildings**
- Environmental performance standard and evaluation of buildings
- Adjustment of tax rate of fixed asset tax
- Low interest loans to investment in energy efficient buildings
- Environmental performance standard of equipment
- Environmental labeling
- Education and information services
- Green purchasing policy
- Green Investment policy
- Subsidy to introduce photovoltaic power generation system
- Tax incentives for green developments

**Transport & Land use**
- Urban planning
- Green Transportation planning; mobile management system
- Tax rate adjustments to fixed asset
- Investment in public transport e.g. BRT
- Environmental performance standard of vehicles
- Tax rate adjustment to energy-efficient vehicles
- Promotion of bio fuel
- Incentives to introduce energy-efficient equipment & buildings
- Incentives to introduce/adopt renewable energy

**Industry**
- Subsidy to investment to energy efficient equipment
- Promotion of technology transfer
- Green manufacturing
- Controlling urban growth & choice of transport mode

**Sustainable Economic Region**
- Energy-efficiency improvements
- Lowering CO₂
- Transport demand control
1. Integrated Green Transportation – Mobile Management System
2. Green Economy Guidelines
3. Eco-Life Challenge Project for Schools
4. Portal on Green Technology
5. Trees for Urban Parks/Forests
6. Responsible Tourism and Biodiversity Conservation
7. Bukit Batu Eco-Community
8. GAIA – Green Accord Initiative Award
9. Low Carbon Village FELDA Taib Andak
10. Special Feature: Smart City – Pasir Gudang ‘NAFAS BARU’: CLEAN AND HEALTHY CITY
Main factors for success of Low Carbon Society Blueprint

**Governance Structure – coordination of policies**
- Close collaboration between all agencies (Federal, state and regional) to ensure policy dovetailing and acceptance

**Public awareness & direct involvement**
- Awareness, involvement and readiness of everyone in the implementation of LCS; stakeholders’ preparedness

**Monitoring and review**
- Actions need regular monitoring and review to ensure effectiveness and acceptance

**Visible evidence & creating champions of LCS**
- Public acceptance of a high sustainability Iskandar Malaysia and Green Growth
Mechanisms for Success of Low Carbon Society Blueprint

**PLAN**

**PROMOTE**

**FACILITATE**

IRDA’s Roles as regional authority

Government: Political Will & Commitment

Strong and Sustainable Metropolis of International Standing

PM’s endorsement of LCSBP, COP 18 & 19

Public Acceptance - champion

Funding

Awareness-Raising & Public Involvement

Capacity-Building

Establishing relationships

Regular availability of Funding

Government:

- Political Will & Commitment

PM’s endorsement of LCSBP, COP 18 & 19

Public Acceptance - champion
THANK YOU

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5th HLS ESC, Surabaya
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