Iskandar Malaysia
Eco-Cities Network South East Asia
by Fuad S Salleh, Vice President Planning & Compliance

a presentation by
Introducing, Iskandar Malaysia

- Lies at the heart of SEA at the southernmost tip of West Malaysia within minutes from Singapore
- Located at the cross roads of East-West trade lanes
- Centrally located in the heart of East Asia

Source: The Economist Intelligence Unit
Iskandar Malaysia is not just one city

Iskandar Malaysia is a regional economic corridor covering a total area of 2,217 sq km (12% of Johor State)

Iskandar Malaysia in the context of Regional Corridors

3 times smaller than Iskandar Malaysia

1.3 times bigger than Iskandar Malaysia

11 times bigger than Iskandar Malaysia

30 times bigger than Iskandar Malaysia

Iskandar Malaysia covers FIVE local planning authorities.

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<thead>
<tr>
<th></th>
<th>2005</th>
<th>2010</th>
<th>2025</th>
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<tbody>
<tr>
<td>Population (million)</td>
<td>1.35</td>
<td>1.61</td>
<td>3.00</td>
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<tr>
<td>Labour Force (million)</td>
<td>0.61</td>
<td>0.70</td>
<td>1.43</td>
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<tr>
<td>Employment (million)</td>
<td>0.62</td>
<td>0.72</td>
<td>1.46</td>
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Source: CDP 2006 – 2025, Population Census 2010 and consultant estimates
Comprehensive Development Plan

Main document to guide Iskandar Malaysia’s economic, social, environmental planning and management towards the establishment a “strong and sustainable metropolis of international standing”.

DEVELOPMENT STRATEGIES:

- Balanced Development
- Protect and Conserve Nature, Historic and Open Spaces
- TODs
- Promote Infill & Redevelopment
- Enhance Accessibility
- Promote Key Economic Areas as Focal Point For Growth
- Plan & Manage Regional Growth
- Innovative & Sustainable Infrastructure & Utilities
- Liveable, Walkable Green Cities - Quality and Sustainable Neighbourhoods

Downloadable at www.iskandarmalaysia.com.my
The Need for a Green Focused Agenda

Development of Framework & Scoping

ISKANDAR MALAYSIA VISION: STRONG, SUSTAINABLE METROPOLIS OF INTERNATIONAL STANDING

- STRONG
  - PROSPEROUS, RESILIENT, ROBUST, GLOBALLY COMPETITIVE ECONOMY
    - INTEGRATED GREEN TRANSPORTATION
    - GREEN INDUSTRY
  - HEALTHY, GLOBALLY COMPETITIVE, KNOWLEDGEABLE SOCIETY
    - COMMUNITY ENGAGEMENT & CONSENSUS-BUILDING
    - LOW CARBON LIFESTYLE

- SUSTAINABLE
  - LOW CARBON BUILT ENVIRONMENT & SOCIETY
    - SMART URBAN GROWTH
    - WALKABLE, LIVABLE & SAFE CITY DESIGN
  - GREEN & BLUE INFRASTRUCTURE & RURAL RESOURCES
  - CLEAN AIR ENVIRONMENT
From Science to Policy

Without the Green, there shall be no SUSTAINABLE DEVELOPMENT

Figure 1: GHG emissions by sectors
Invest • Work • Live • Play
Launching of the LCSBPIM – COP18 Doha 2012
<table>
<thead>
<tr>
<th>Action Names</th>
<th>Themes</th>
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<tbody>
<tr>
<td>1 Integrated Green Transportation</td>
<td>GREEN ECONOMY</td>
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<tr>
<td>2 Green Industry</td>
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<tr>
<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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<tr>
<td>6 Low Carbon Lifestyle</td>
<td>GREEN COMMUNITY</td>
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<td>7 Community Engagement &amp; Consensus Building</td>
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<tr>
<td>8 Walkable, Safe, Livable City Design</td>
<td>GREEN ENVIRONMENT</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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<tr>
<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
Renewable Energy & Energy Efficiency

BP

STRATEGIC INITIATIVES:
- District cooling and ice-storage
- Co-generation
- GIS for spatial planning
- Transport design and policy
- Integrated design and renovation (clusters)

1. Ensure Energy Efficiency in Key Sectors
- Energy Advance (Tokyo Gas), collaborating with Jana DSC, Nusajaya

2. Ensure Energy Efficient in Infrastructure; and Integrated Design
- CASBEE – Keio U currently doing pilot assessment for IM region; IRDA proposes to adopt CASBEE as a tool for building efficiency assessment
- Promote & Support the Development of Renewable Resources
- 2 companies looking at solar farms in IM; Solar PV for PRISMA public housing

3. Renew Energy & Energy Efficiency
- Renewable Energy & Energy Efficiency BP
- M’s own FIT incentives:
  - Solar farms
  - Rooftop solar PV
  - Mini-hydro
  - MSW
  - Agricultural wastes
  - Liquid wastes

STRAEGIC INITIATIVES:
- Codes and standards:
  - Green building index
  - Street lighting
  - Education programmes
  - Campaigns (labeling, types of appliances that save energy, good habits)
  - Benchmarking
  - Operation & maintenance
Green Community: On-going

Low Carbon Lifestyle
- Enhancing public awareness e.g. JB Transformation
- Enhancing school awareness on going green
- Promote Energy Efficiency
- Eco-Life Challenge for schools within Iskandar Malaysia
- Proposal – Covered Walkway from City Square to KSL and Larkin Bus Terminal

Community Engagement & Consensus-Building
- Input from Stakeholders and LCS Information Sharing with stakeholders in IM
- FGD, Symposium, workshop, regular meetings with the public
- Portal for Green Technology
## Green Environment: On-going

### Walkable, Safe, Livable City Design
- Designing the Safe City (from crime) – CCTV, Community Police Posts
- Cycling paths & Walkways

### Smart Urban Growth
- Promote Compact Urban Development
- Smart City Concepts / FCI
- Kulai Eco-town proposal

### Green and Blue Infrastructure & Rural Resources
- Conservation of Mangrove Forests
- Wise Use of Ramsar sites
- Responsible Tourism
- Urban Forests

### Sustainable Waste Management
- IRDA Going Green
- Hybrid Car-Parking
- 3R promotion in schools & homes

### Clean Air Environment
- Promote low emission vehicle, low emission technologies for industry
- Air Quality Monitoring
- Pasir Gudang – Green & Healthy City

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**Invest • Work • Live • Play**
Iskandar Malaysia: Today and Tomorrow

Today Iskandar Malaysia
High Carbon Society, Lower Sustainability

Low Carbon Society Blueprint

Tomorrow Iskandar Malaysia
Low Carbon Society, Higher Sustainability, Green Growth/Economy
**Thank You**

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<thead>
<tr>
<th>IRDA Headquarters</th>
<th>IRDA Satellite Office</th>
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<tr>
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**ISKANDAR REGIONAL DEVELOPMENT AUTHORITY (IRDA)**