

3rd High Level Seminar on Environmentally Sustainable Cities

SUSTAINABLE LOW CARBON SCENARIO DEVELOPMENT: LCS FOR ISKANDAR MALAYSIA

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Presentation Outline

- ◆ Introduction: Malaysian Outlook
- ◆ Research into Policy > VIDEO
- ◆ IRDA : Roles & Responsibility
- ◆ LCS for Iskandar Malaysia Research Studies
- ◆ IRDA's Actions for LCS
- ◆ Essential Mechanisms for Success



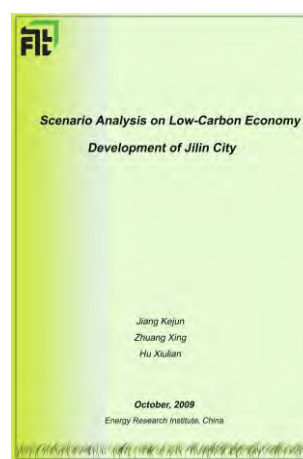
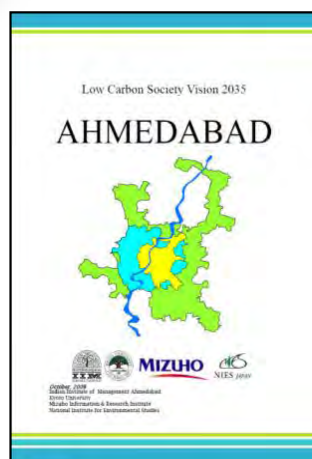
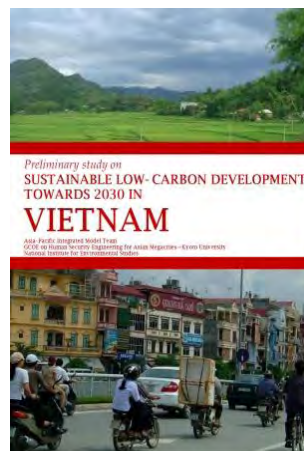
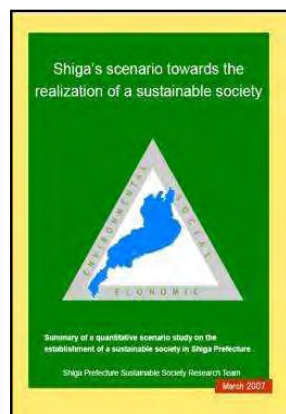
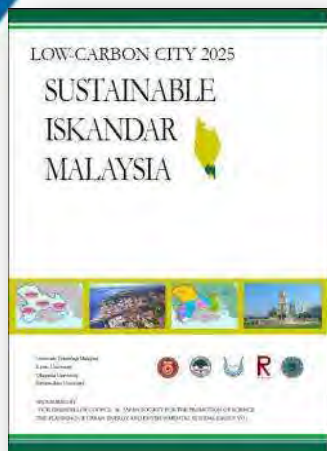
Malaysian Outlook

- In COP15 (2009), Malaysian Prime Minister ; YAB Dato' Seri Mohd Najib Tun Abdul Razak, has pledged a voluntary 40% reduction of CO₂ emission intensity by 2020.
- Under the Tenth Malaysia Plan (2011-2015); The Government has intensified effort to reduce emission by climate adaptation and mitigation measures.



- ✿ With this in Focus, we look towards lowering the CO₂ emission intensity in Iskandar Malaysia by 50% by 2025 (base 2005).
- ✿ **The Tools** (ExSS & Backcasting Models) as tools to assist IRDA and the Local Authorities design Policies & Guidelines towards Low Carbon Scenarios.

On-going region-specific studies





A Low Carbon Asia: From Iskandar Malaysia to Asia

Research into Policy-Making: Towards
Implementation



Video

Iskandar Malaysia

At COP16

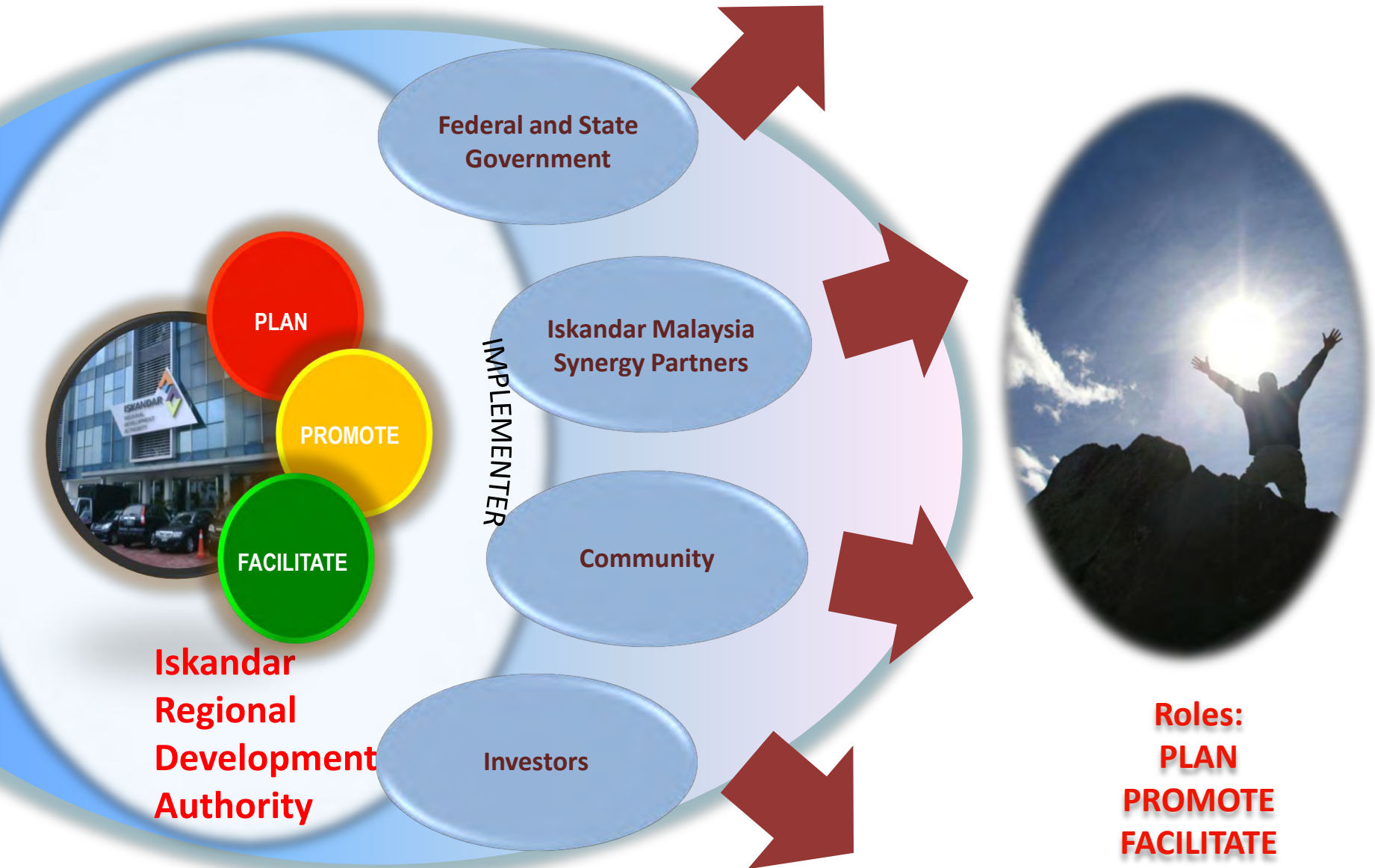
Cancun, Mexico

Nov/Dec 2010

Rationale why Iskandar Malaysia has adopt LCS

- **Timely** for developing countries like Malaysia to adopt the pathway towards a low carbon society – due to **high increase in greenhouse gas emission and increasing public awareness.**
- Many **developing countries need clean technologies**, energy efficiency technology, cost-effective RE that would allow them to expand their economies while **curbing emissions.**
- Pathway towards LCS requires **concerted effort** from the experts, government and political will to realise the vision.
- There is no doubt that **urban land use planning policies i.e. at building scale to city-scale** will have important implications for energy demand and supply which will in turn affect **environmental sustainability.**

IRDA: Roles and Responsibilities



Comprehensive Development Plan 2006-2025

Main document to guide Iskandar Malaysia's economic, social, environmental planning and management toward the establishment a "sustainable metropolis of international standing".



Downloadable at
www.iskandarmalaysia.com.my

DEVELOPMENT STRATEGIES:

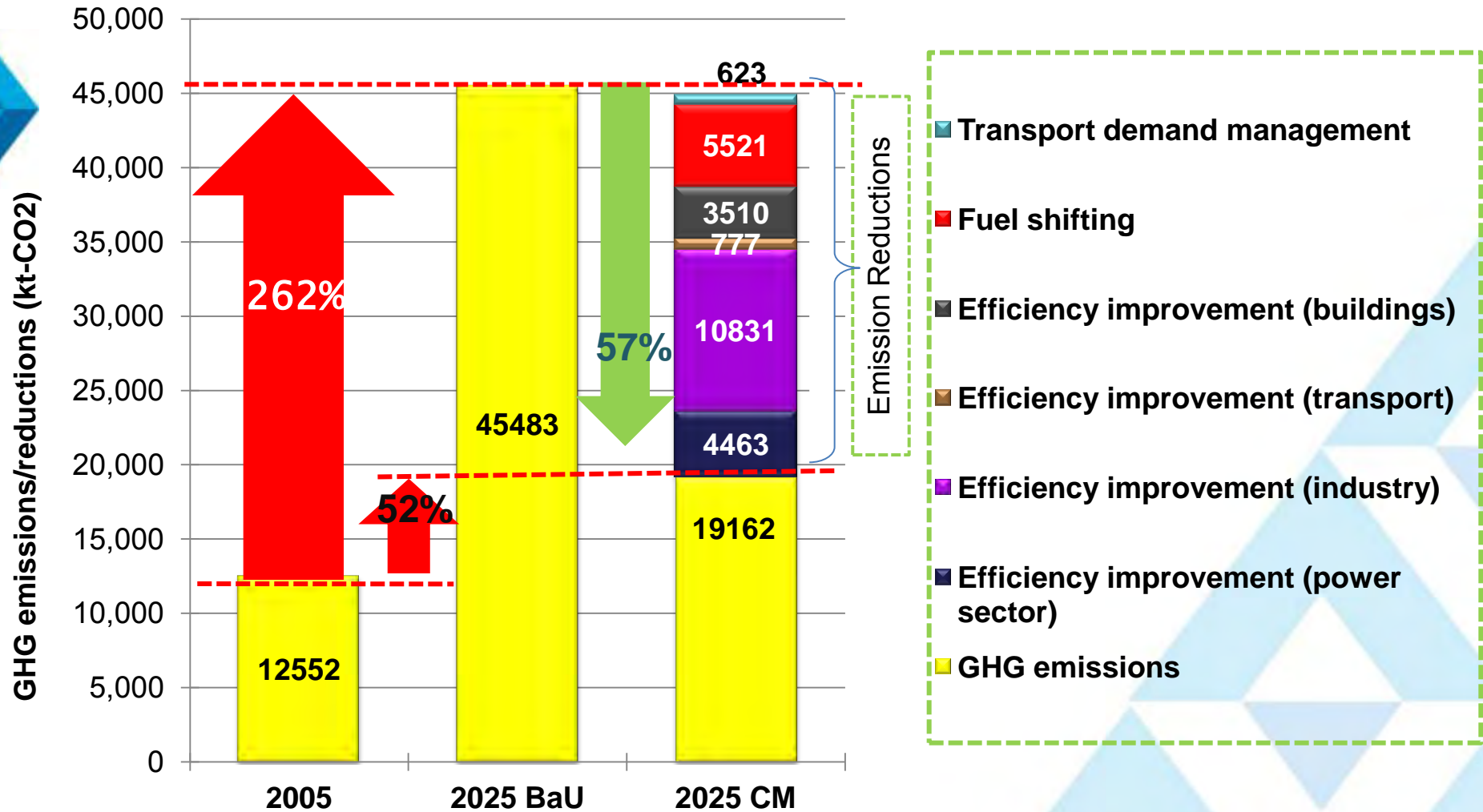
- **Balanced Development**
- **Protect & Conserve Nature, Historic & Open Spaces**
- **TODs**
- **Promote Infill & Redevelopment**
- **Enhance Accessibility**
- **Promote Key Economic Areas as Focal Point For Growth**
- **Plan & Manage Regional Growth**
- **Plan for Innovative & Sustainable Infrastructure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



IRDA Blueprints that promote **LCS**



Potential Mitigation in IM



ISKANDAR MALAYSIA VISION

“Strong Sustainable Metropolis of international standing”



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 to energy efficient buildings

- Environmental performance standard of equipments
- Environmental labeling
- Education and information service
- Green purchasing policy

- Subsidy to introduce photovoltaic power generation system

Transport & Land use

- Urban planning
- Transport planning
- Tax rate adjustment to fixed asset
- Investment to public transport

- Environmental performance standard of vehicles
- Tax rate adjustment to energy efficient vehicles
- Promotion of bio fuel

Industry

- Subsidy to investment to energy efficient equipments
- Promotion of technology transfer

- Incentive to introduce energy efficient equipments & buildings
- Incentive to introduce renewable energy

- Controlling urban growth & choice of transport mode

Energy efficiency improvement

Lowering CO₂ intensity

Transport demand control


Mitigation of GHG emissions from Iskandar Malaysia

**To achieve Low Carbon Society status by 2025,
what do we need to do together?**

IRDA's Actions:

- Action 1: Walkable/Liveable/Compact City
- Action 2: Green & Blue Network/ Infrastructure
- Action 3: Low Carbon Lifestyle
- Action 4: A Green Economy
- Action 5: Integrated Transportation
- Action 6: Energy-efficient buildings
- Action 7: Land Use Planning
- Action 8: Efficient Energy Systems & Renewable Energy

LCS: Other Updates

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1. Prepare a **LCS Blueprint** to collate all the information from the various blueprints – by Q4 2012
 2. **Expand The Network Of Air Quality Stations in Iskandar Malaysia (3 to 10)**
 3. Phase out the use of diesel public buses by either replacing or retrofitting to CNG buses.
 4. Publish an Annual State of the **Environment Report** in IM.
 5. The Preparation Of **Green Plans** By All Major Developments In IM To Promote Private Sector Environmental Stewardship.
 6. Implement A Green Accord Initiative Award (**GAIA**) For The Private Sector To Encourage Corporate Commitments To The Environment.

Environmental Governance

Low Carbon Green Growth Institute

Korea's GGGI; UNESCAP (Busan);
KeTTHA's LCGGA

ARNLCD

'Greening Iskandar Malaysia' Campaign

26 million trees; green & blue
spaces; green corridors/species
movement; Cycling launched on
Earth Hour

IRDA's Environmental Sustainability Development LCSIM Consensus-Building

Awareness-Raising & Public Involvement;
Charrettes/FGDs/Village Appraisals

Future City Initiative

Smart City; RE; Super-aging; city
and town planning

CASBEE CITY

1st Pilot study outside Japan

Conclusion: Essential Mechanisms for Success of LCSIM



Thank You!

3rd HLS ESC

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