

# ISKANDAR MALAYSIA TOWARDS A STRONG METROPOLIS OF INTERNATIONAL STANDING

Zero Carbon City International Forum 2023

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1<sup>st</sup> MARCH 2023

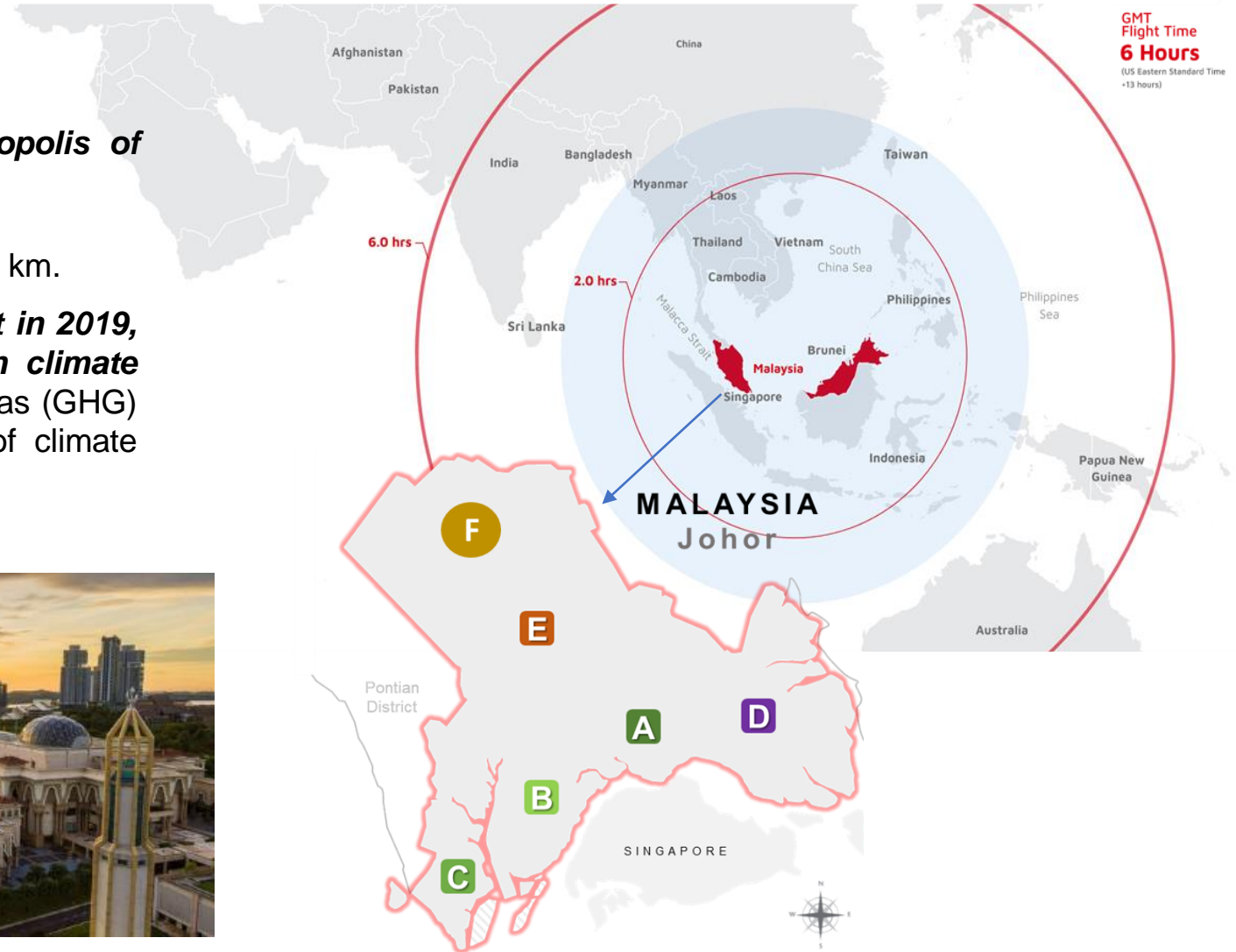
**ISKANDAR**  
REGIONAL  
DEVELOPMENT  
AUTHORITY





# ABOUT ISKANDAR MALAYSIA

- Established in 2006, in Southern Johor, Malaysia.
- Our Vision is: ***To be a strong sustainable Metropolis of International Standing.***
- Current development encompasses an area of 2,217 sq km.
- Recognised in the CDP Global Ranking ***Cities A-List in 2019, 2020, and 2022*** for ***leadership & transparency on climate action*** especially in our effort to reduce Greenhouse gas (GHG) emissions and build resilience against the impacts of climate change.

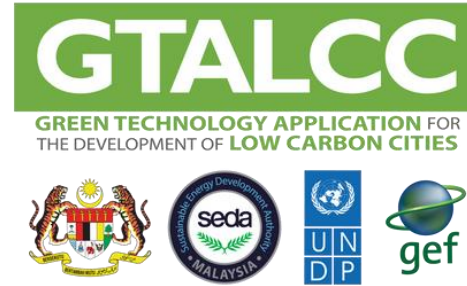


Iskandar Malaysia





# INTERNATIONAL COLLABORATIONS



Establishment of **Ecology Centre Iskandar Malaysia** in collaboration with City of Kyoto, Kyoto Environmental Activities Association (KEAA), Johor Bahru City Council (MBJB), Japan International Cooperation Agency (JICA)



City to City Collaboration with **City of Kitakyushu**- Realizing **Industrial Symbiosis with CO2 Free Energy and Industrial Symbiosis.**



Collaboration with the **City of Toyama**- Urban Development Projects through **Decarbonized Transportation using Bio-fuel initiative.**



Collaboration with **Deltares and UTM** - Iskandar Malaysia Coastal Resilience And Climate Adaptation Centre





## PAST ACHIEVEMENT RELATED TO CITY-TO-CITY COLLABORATIONS BETWEEN ISKANDAR MALAYSIA AND OTHER CITIES IN JAPAN



**Ecology Centre Iskandar Malaysia** was established through the collaboration between Johor Bahru City Council, Iskandar Malaysia, and Kyoto City (2023)



Rollout of **Building Energy Monitoring & Reporting System (BEMRS)** - Iskandar Malaysia & Tokyo Metropolitan Government (TMG) 2016-2018



**1<sup>st</sup> Floating Mini Hydro Hybrid Project in Asia**  
– Iskandar Malaysia & Toyama City (2017 & 2018)



# CITY-TO-CITY COLLABORATIONS BETWEEN ISKANDAR MALAYSIA AND TOYAMA CITY

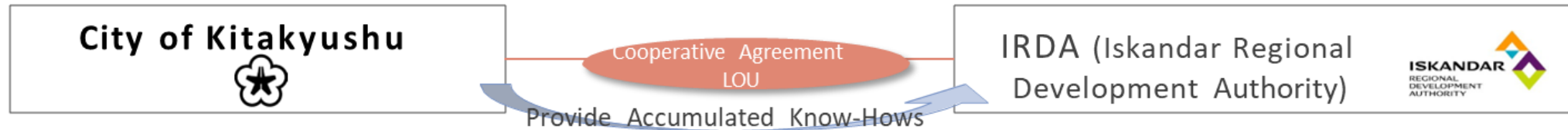
## Decarbonisation technologies for Biofuel in Transportation





# CITY-TO-CITY COLLABORATIONS BETWEEN ISKANDAR MALAYSIA AND KITAKYUSHU CITY

## Industrial Symbiosis Concept & Pilot Model Execution

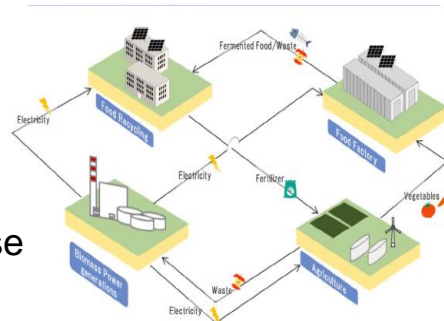


### Kitakyushu-IRDA Collaboration Project in 2022

#### Activity1

#### Create inter-industry collaboration projects for decarbonization of the industrial sector

1. Study on energy management for the entire industrial park beyond the boundaries of industries
2. Identify the batch supply and treatment of waste- water for use
3. Creation of pilot projects



#### Activity2

#### Introduce renewable energy for decarbonization of the consumer sector

1. Introduction of solar PV facilities based on the '100% renewable energy Kitakyushu model' (TPO model, the energy management system)
2. Realize Waste-to-Energy as a base-load power source





# POTENTIAL COLLABORATION AREAS FOR YEAR 2023 AND ONWARD

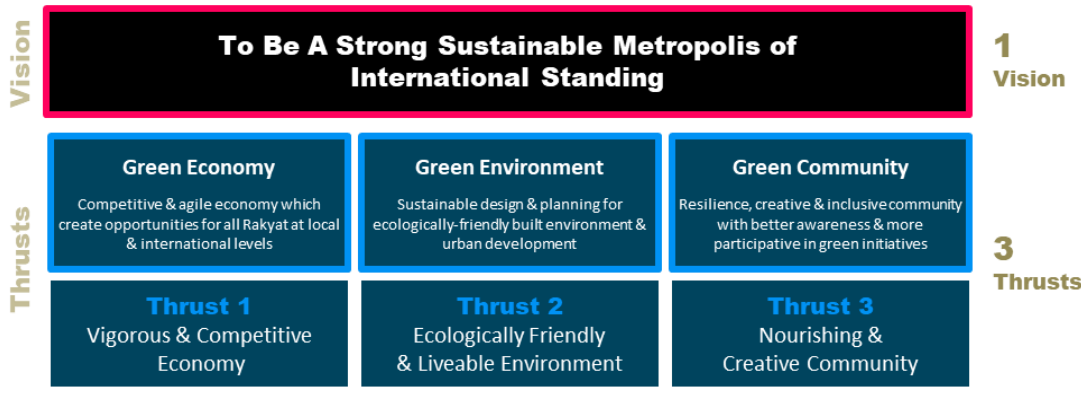
Sharing of know-how and support for policy making regarding zero carbon cities



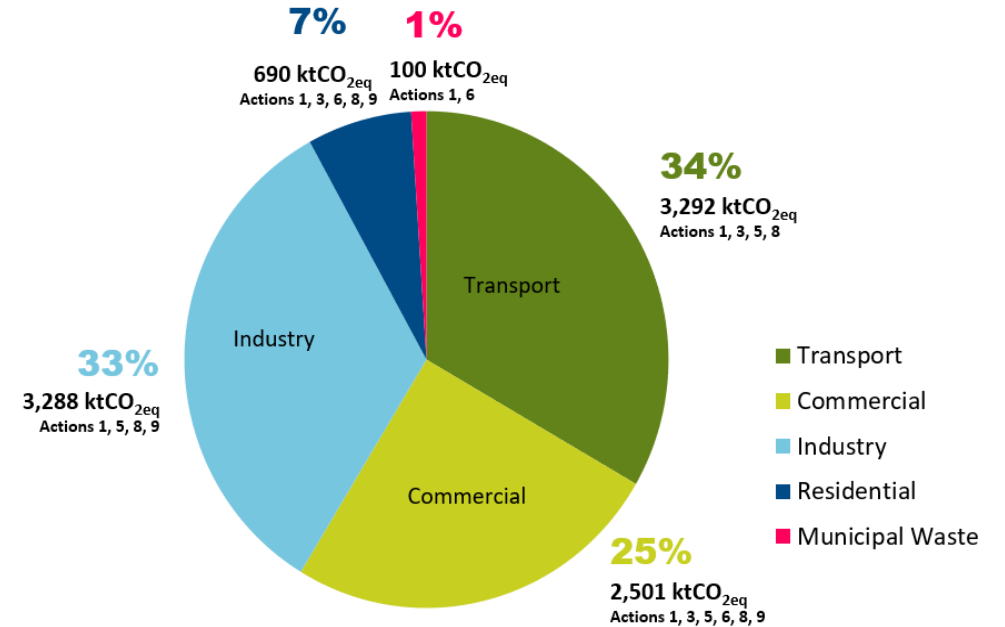


# LOW CARBON SOCIETY BLUEPRINT FOR ISKANDAR MALAYSIA 2030 - CLIMATE ACTION PLAN

- Climate Action Plan and roadmap for Iskandar Malaysia inclusive of both **climate mitigation and adaptation**



- Reducing the intensity of GHG emissions by up to **70 %** by 2030 compared to the 2010 level



*Iskandar Malaysia 2030 Sectoral GHG Emission Reduction Potential (ktCO<sub>2eq</sub>) and Contributing LCS Actions*





## OUR COMMITMENT AND WAY FORWARD

1. Strengthen City-to-City collaboration with the aim to reduce our carbon emission intensity through the sharing of best practises and knowledge transfer from the Japanese cities.
2. Continue city-to-city collaborations with Toyama and Kitakyushu cities in the following areas:
  - **Toyama City:**
    - i. Transportation: Introduce a Battery as a Service (BaaS) system as part of decarbonised transportation efforts.
    - ii. Urban planning: Study on the development of zero carbon model area.
    - iii. Clean energy: Introduction of solar power generation to supply for projects (i) & (ii).
  - **Kitakyushu City:**
    - i. Continue the inter-industry collaboration projects for the decarbonisation of the industrial sector.
    - ii. Introduction of renewable energy for the decarbonisation of the consumer sector.
3. Implement the use of the Comprehensive Assessment System for Built Environment Efficiency (CASBEE) Iskandar as a tool for green building compliance guidance in Iskandar Malaysia. This will be in collaboration with IGES and the Institute for Building Environment and Carbon Neutral for SDGs (IBECs).
4. IRDA welcomes future collaborations and investment opportunities from Japanese counterparts.

**THANK YOU**  
*TERIMA KASIH*



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