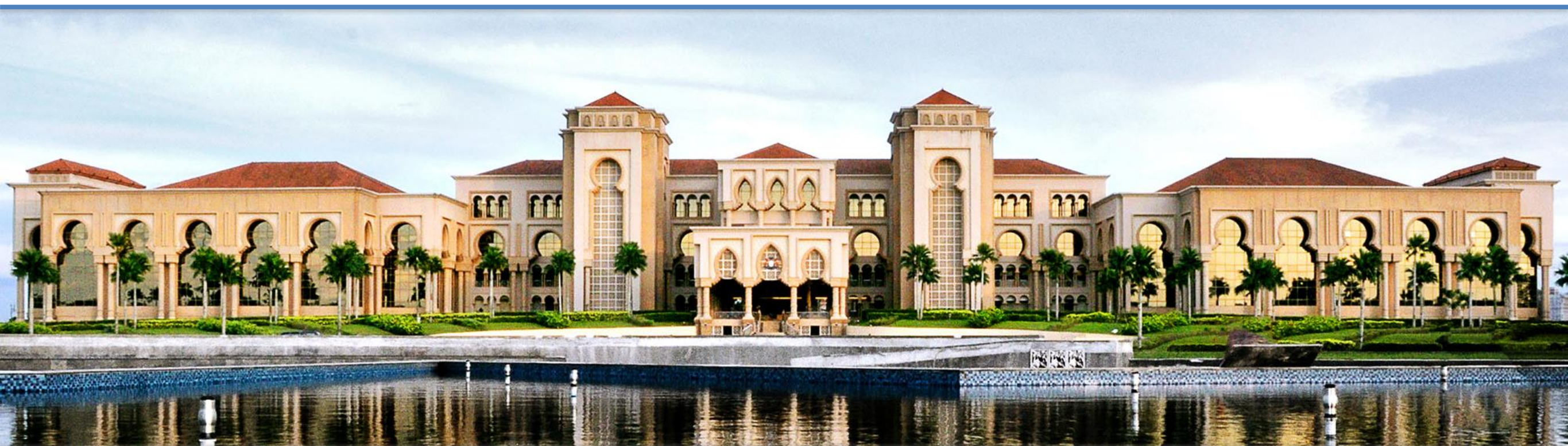


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LOW CARBON SOCIETY ISKANDAR MALAYSIA ***ISKANDAR MALAYSIA ECO LIFE CHALLENGE (IMELC) –*** ***LOW CARBON EDUCATION WITH SCHOOLS***

**BY: KAMISAH MOHD GHAZALI,
SENIOR VICE PRESIDENT, RESILIENT ENVIRONMENT
ISKANDAR REGIONAL DEVELOPMENT AUTHORITY (IRDA)**



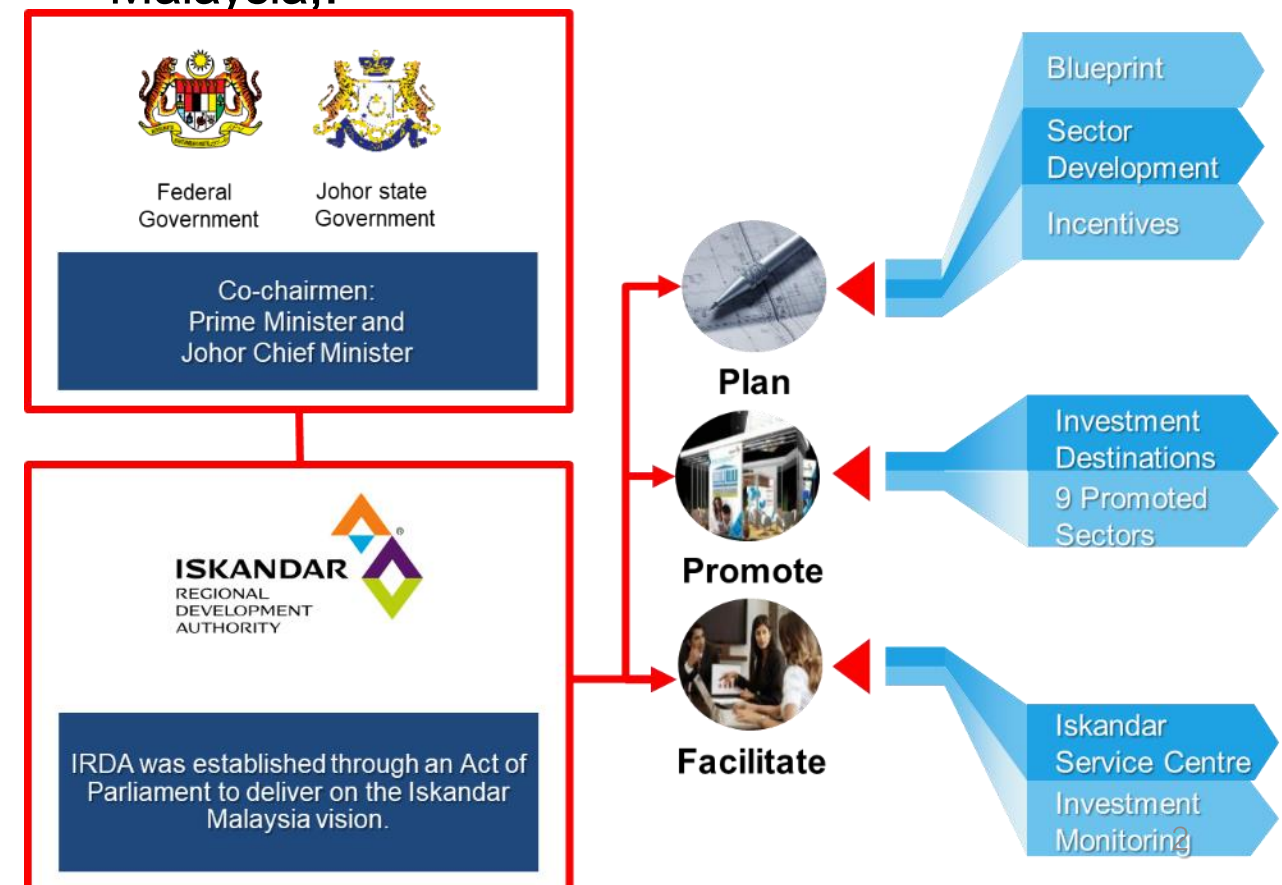
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ISKANDAR MALAYSIA



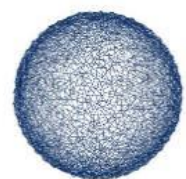
- Iskandar Malaysia is located in the main southern development corridor in Johor.
- Total area: 2,217 sq km (12% of Johor State); 3 times the size of Singapore.
- Iskandar Malaysia covers **FIVE Local Authorities**

- Iskandar Regional Development Authority (IRDA) is a Malaysian Federal Government statutory body tasked with the objective of regulating and driving various stakeholders in both public and private sector towards realizing the vision of developing Iskandar Malaysia into a strong and sustainable metropolis of international standing.
- IRDA's statutory powers and functions are designed to achieve the above objective and include the following **core functions** in summary **covers plan, promote and facilitate development in Iskandar Malaysia,**





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COP15
COPENHAGEN
UN CLIMATE CHANGE CONFERENCE 2009

LOW CARBON SOCIETY BLUEPRINT FOR ISKANDAR MALAYSIA 2025



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21-CMP11

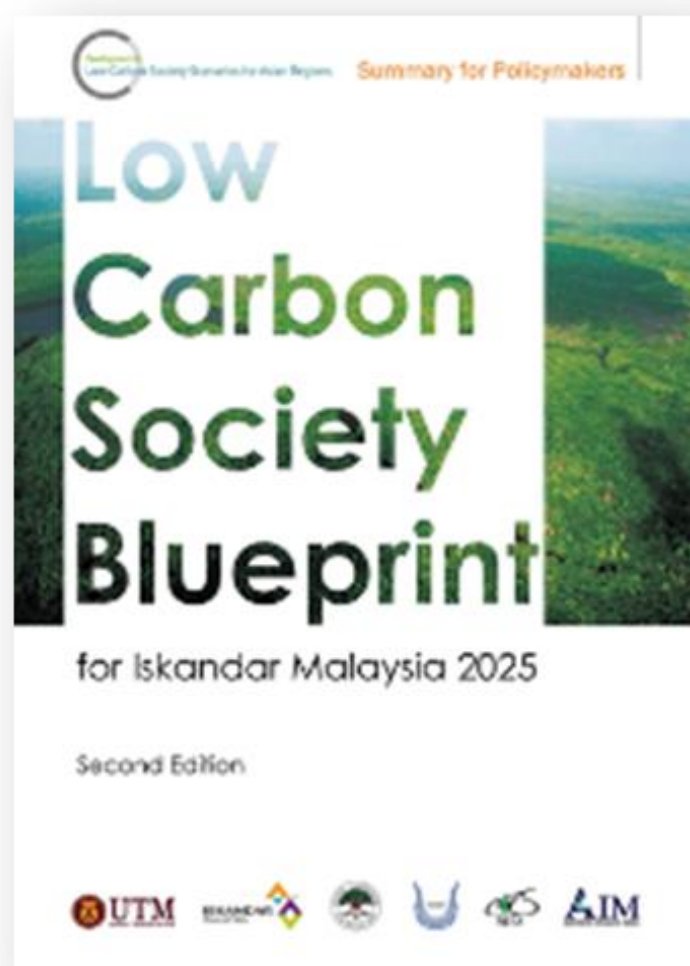


DOHA 2012
UN CLIMATE CHANGE CONFERENCE
COP18|CMP8

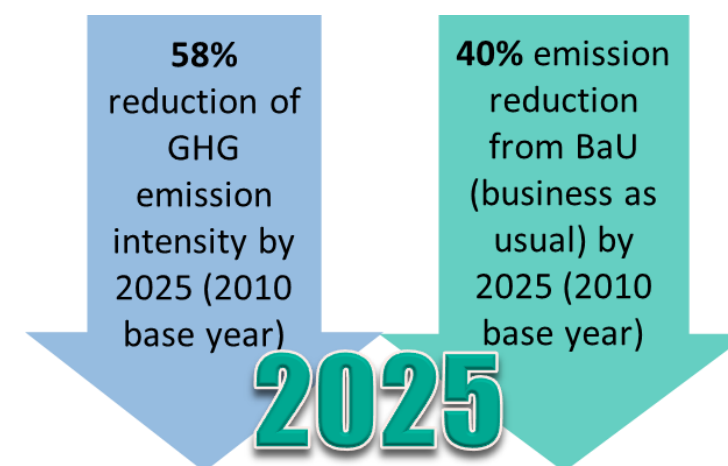
On 17 Dec 2009, Malaysian 6th Prime Minister committed to a voluntary reduction of up-to-40% in terms of emission intensity of GDP by the year 2020 compared to 2005 levels.

At COP 21 Paris – The commitment is renewed to a reduction of up to 45% in terms of emission intensity of GDP by 2030 compared to 2005 levels.

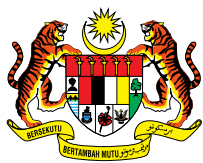
At COP 19 Doha – Iskandar Malaysia launched Low Carbon Society Blueprint for Iskandar Malaysia 2025. The Blueprint was subsequently endorsed by the Prime Minister of Malaysia in December 2012



Action Names	Themes
1. Integrated Green Transportation	 GREEN ECONOMY
2. Green Industry	
3. Low Carbon Urban Governance	
4. Green Buildings & Construction	
5. Green Energy System & Renewable Energy	
6. Low Carbon Lifestyle	 GREEN COMMUNITY
7. Community Engagement & Consensus Building	
8. Walkable, Safe, Livable City Design	 GREEN ENVIRONMENT
9. Smart Growth	
10. Green and Blue Infrastructure & Rural Resources	
11. Sustainable Waste Management	
12. Clean Air Environment	



- Low Carbon Society Blueprint for Iskandar Malaysia 2025 presents comprehensive climate change mitigation policies and detailed strategies to guide development of Iskandar Malaysia
- The LCSBPIM– a quick reference for all policy-makers in both public and private sectors as well as IRDA; 12 Actions grouped in 3 parts namely: Green Economy, Green Community, and Green Environment with total 281 programmes.

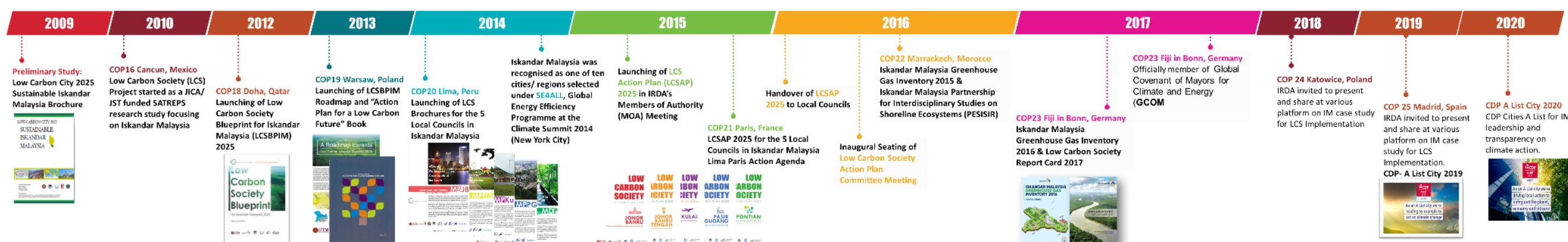


PRIME MINISTER'S DEPARTMENT

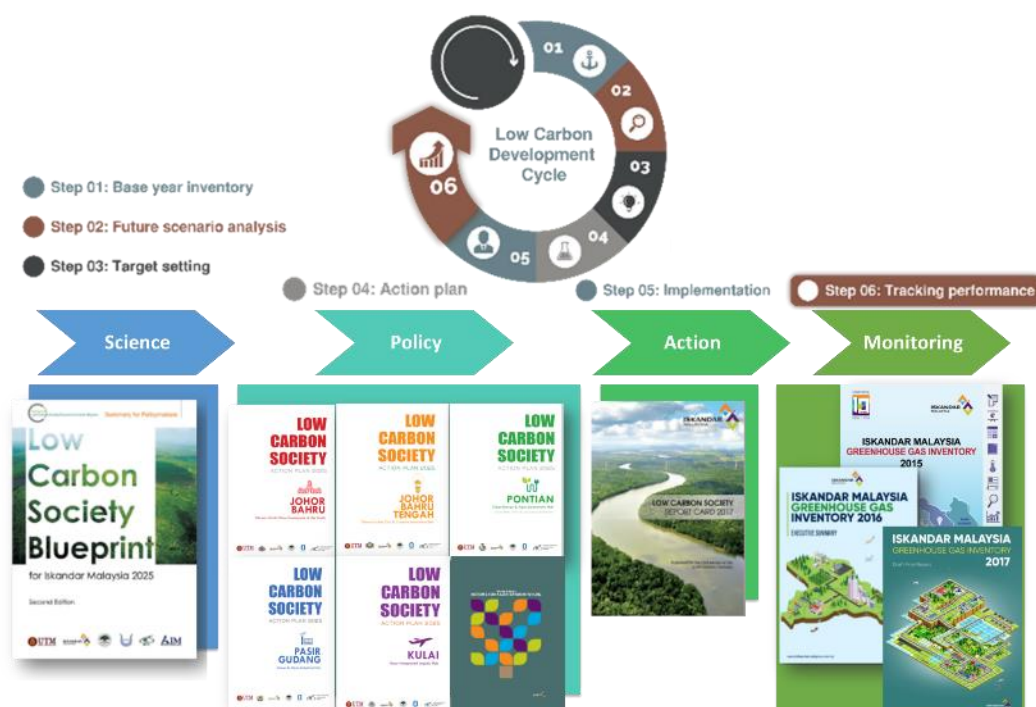
THE JOURNEY OF LOW CARBON SOCIETY ISKANDAR MALAYSIA



- Iskandar Malaysia is **pioneer** in our Malaysia on low carbon development since 2009 and the **adoption** of the Low Carbon Society Blueprint for Iskandar Malaysia 2025 (LCSBPIM 2025) in **November 2012**.
- In less than 10 years, Iskandar Malaysia managed to **complete the LCS Development Cycle** from Science to Policy, Action and Monitoring.



LCS: DEVELOPMENT CYCLE



The LCSBPIM is widely recognized at local, national and international levels, which puts Iskandar Malaysia in constant international focus for combating climate change.

- **1st yearly participation in the side event- COP, UNFCCC.** This is the highest international platform in which IM is involved, giving us maximum exposure on the low carbon and green agenda.
- **2nd IRDA officially became a member of GCoM in 2017.** The largest global alliance for city climate leadership across the globe. Iskandar Malaysia has received **SCORE A: LEADERSHIP**, the highest band score in 2019 and 2020 CDP Cities Reporting
- **3rd International partnership and collaboration.** The collaboration with Japanese city still going strong after the completion of blueprint especially Toyama City and Kyoto City.



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LOW CARBON AGENDA IN STATE AND LOCAL AUTHORITIES' POLICY



TERAS PPMJ 2030

PPMJ 2030 mempunyai lapang teras yang terangkum menerusi tiga kluster utama kemampuan iaitu mampan ekonomi, mampan fizikal dan mampan sosial. Ketiga-tiganya dirancang dan perlu dilaksanakan serta dipantau menerusi pendekatan dinamik, komprehensif dan inklusif.

MAMPAK EKONOMI		MAMPAK FIZIKAL		MAMPAK SOSIAL			
TERAS	TERAS	TERAS	TERAS	TERAS	TERAS	TERAS	TERAS
01	02	03	04	05	06	07	08
PEMERKASAAN EKONOMI	PELABURAN DAN EKONOMI DIGITAL	PENGANGKUTAN DAN INFRASTRUKTUR MEGA	KESEKUTUPAN ALAM SEKITAR	TADBIR URUS CEKAP, BERINTEGRITI DAN DINAMIK	KESEKUTUPAN SOSIAL	MEMPERKASA PENDIDIKAN ISLAM, PEMBANGUNAN MODAL INSAN DAN WARISAN BUDAYA	PESONA WANITA DAN ASPIRASI IDEALIS ANAK MUDA

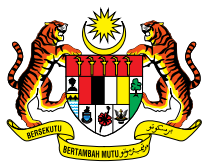


Terdapat 5 objektif yang dibentuk dalam merangka halatuju pembangunan daerah sepertimana berikut:



Teras-Teras Perancangan Negeri Johor





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LOW CARBON SOCIETY KEY PROJECTS FOR 2020/2021



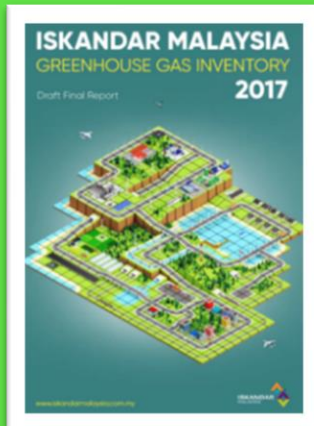
- Iskandar Malaysia started implementing the LCS programmes since 2013, more than 60 programmes completed and 214 on-going.
- For Iskandar Malaysia GHG Inventory 2017 the emissions intensity of GDP shows a significant decrease of 12.9%.



- IM joined Global Covenant of Mayors for Climate and Energy (**GCOM**) since 2017.
- Iskandar Malaysia has received **SCORE A: LEADERSHIP**; the highest band score in 2019 and 2020 CDP Cities Reporting.



- IM partnership in the Alliance to End Plastic Waste (AEPW) and ICLEI – Local Governments for Sustainability's programme.
- The expected outcome of this partnership is the implementation of waste management infrastructure to eliminate leakage of plastic waste into the environment.



- Iskandar Malaysia GHG Inventory 2017 the emissions intensity of GDP shows a decrease of 13%.
- IM GHG Inventory 2018 will be using BASIC+ reporting, cost will be shared between IRDA and 5 local authorities in Iskandar Malaysia.



- Green Community Carbon Reduction Programme (GCCR) to spread awareness and embrace low carbon lifestyles among community.
- 2021 will continue 3R, Electricity and Water Saving competition; and facilitating fabric recycling movement for Johor.



- Building Energy Monitoring & Reporting System (BEMRS) is a reporting tool for measuring building energy performance as well as to track and monitor the GHG (carbon) emission through achievement of the building energy-saving programme.
- In collaboration with SEDA Low Carbon Building Assessment template



- Green Accord Initiative Award (**GAIA**) aim to encourage stakeholders' commitment to environmental sustainability and stewardship and to increase voluntary environmental initiatives especially by private organisations in the economic region
- GAIA 2021/2022 will continue this year with 6 awards and 9 special mentioned.



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ISKANDAR MALAYSIA ECOLIFE CHALLENGE



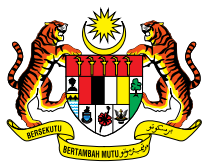
ISKANDAR MALAYSIA ECOLIFE CHALLENGE 2021

Strategic Partners;



Supported by;





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ISKANDAR MALAYSIA ECOLIFE CHALLENGE -BACKGROUND



IMELC aims to create awareness of Low Carbon Society (LCS) among students, teachers and their families in achieving the target of carbon reduction for Iskandar Malaysia by year 2025, as outlined in the Low Carbon Society Blueprint for Iskandar Malaysia 2025 (LCSBPIM2025).

The objectives of IMELC, are:

- To foster **LCS awareness** among **primary students, teachers and their families** (public community) in IM through education.
- To **disseminate knowledge**, awareness and good practices of LCS among IM community through primary students and teachers.
- To **reduce carbon emission** in IM through awareness and education.
- To create a **Low Carbon Society** for Iskandar Malaysia by year 2025.



2012

COP18 Doha, Qatar
Launching of Low Carbon Society Blueprint for Iskandar Malaysia (LCSBPIM) 2025



58%
reduction of GHG
emissions
intensity
(related to GDP)

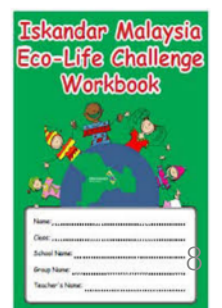
40%
GHG
emissions
reduction
(absolute)

2025

Action Names	Themes
1. Integrated Green Transportation	GREEN ECONOMY
2. Green Industry	
3. Low Carbon Urban Governance	
4. Green Buildings & Construction	
5. Green Energy System & Renewable Energy	
6. Low Carbon Lifestyle	GREEN COMMUNITY
7. Community Engagement & Consensus Building	
8. Walkable, Safe, Livable City Design	GREEN ENVIRONMENT
9. Smart Growth	
10. Green and Blue Infrastructure & Rural Resources	
11. Sustainable Waste Management	
12. Clean Air Environment	

2013

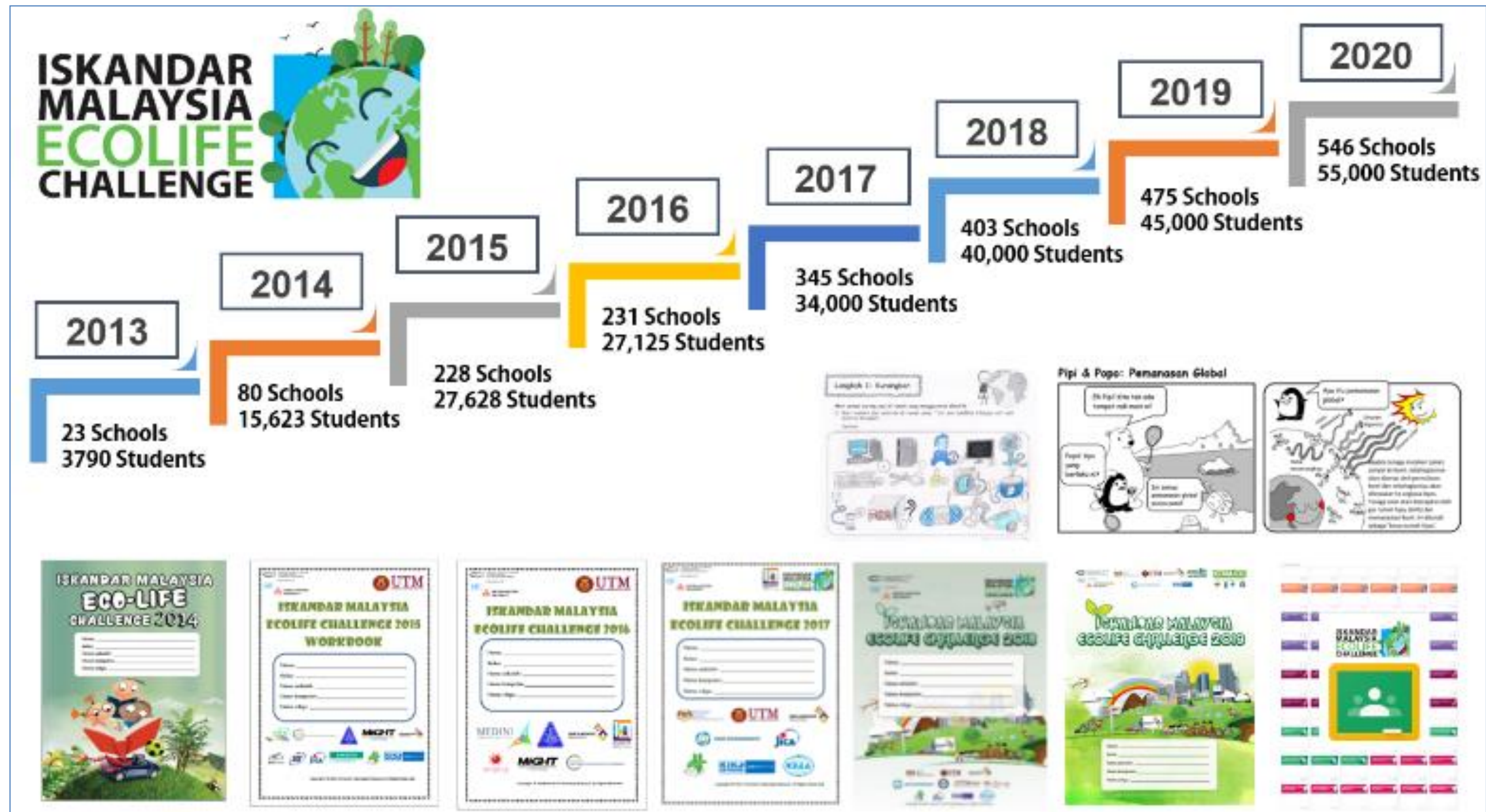
COP19 Warsaw, Poland
Launching of LCSBPIM Roadmap and "Action Plan for a Low Carbon Future" Book
- Implementation Plan 3: Iskandar Malaysia Ecolife Challenge





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KEY MILESTONE FOR IMELC 2013-2020





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LOW CARBON AGENDA IN JOHOR SUSTAINABILITY EDUCATION ACTION PLAN 2019 – 2023



TEMA	CADANGAN PROGRAM
i. PEMULIHARAAN DAN PEMELIHARAAN ALAM SEKITAR	<ul style="list-style-type: none"> • Kem Alam Sekitar (Nature/ Environment Camp) • Lawatan ke Pusat Pendidikan Alam Sekitar (contoh Pusat Pendidikan Alam Sekitar Endau-Rompin, Pusat Pendidikan Marin Diraja Iskandar (akan dibangunkan), hutan paya bakau di Taman Negara Kukup) • Projek EM dan mudball • Projek pengumpulan minyak masak terpakai dari kanteen sekolah • Projek tanaman dengan komuniti (community farming)
ii. PENGURANGAN PENCEMARAN	<ul style="list-style-type: none"> • Pengurusan sisa sekolah/ Pengurangan sisa sekolah • Projek pengumpulan minyak masak terpakai dari kantin sekolah • Pengumpulan sisa elektronik (e-waste) • Projek "Tiada polistirena" ("No polystyrene")
iii. MASYARAKAT RENDAH KARBON	<ul style="list-style-type: none"> • IMELC (Iskandar Malaysia EcoLife Challenge) • PBL LCS (Problem-based Learning for Low Carbon Society) • Project-based learning (PjBL) • Projek jimat elektrik • Projek jimat air (pemuliharaan sumber air) • Projek audit energy bills • Teknologi Hijau (CEETREE) • Projek rainwater harvesting • Pengiraan carbon footprint sekolah • Projek tanaman dengan komuniti (community farming) • Pengurusan sisa sekolah/ Pengurangan sisa sekolah • Projek kitar semula • Projek kompos

**TEMA
KELESTARIAN**

Pelan Tindakan Pendidikan Kelestarian
Johor 2019-2023

IMELC 2019 (PRE COVID)



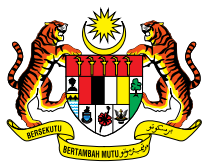
Teacher Training at different venues



School Visits



Some photos of the IMELC 2019 Final



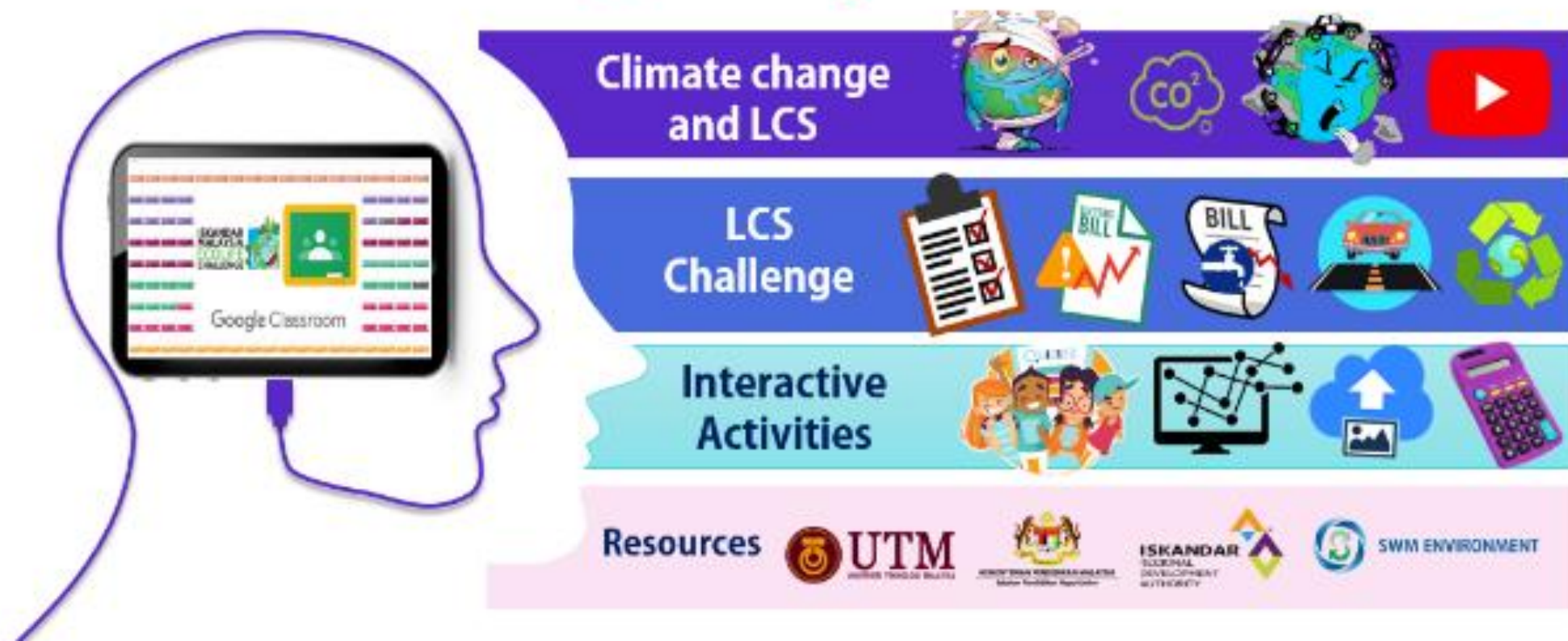
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ISKANDAR MALAYSIA ECOLIFE CHALLENGE 2020 **NEW NORM**



- IMELC 2020 has successfully covered 546 schools and about 55,000 students throughout Johor state through this new normal method- Google Classroom, Facebook Live.
- The total carbon reduction by participating schools in IMELC 2020 is 697,334.04 kgco2eq.
- RM 19,172.05 electricity bills and RM 29,192.39 water bills were saved and RM 52,930.61 or equivalent to 233 thousand kilograms was collected from recycling.
- A total of RM 101,295.05 was saved and earned by the participating schools in IMELC 2020.

IMELC @ Google Classroom





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IMELC 2020 SCHOOL ACTIVITIES





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IMELC 2020 HOME ACTIVITIES





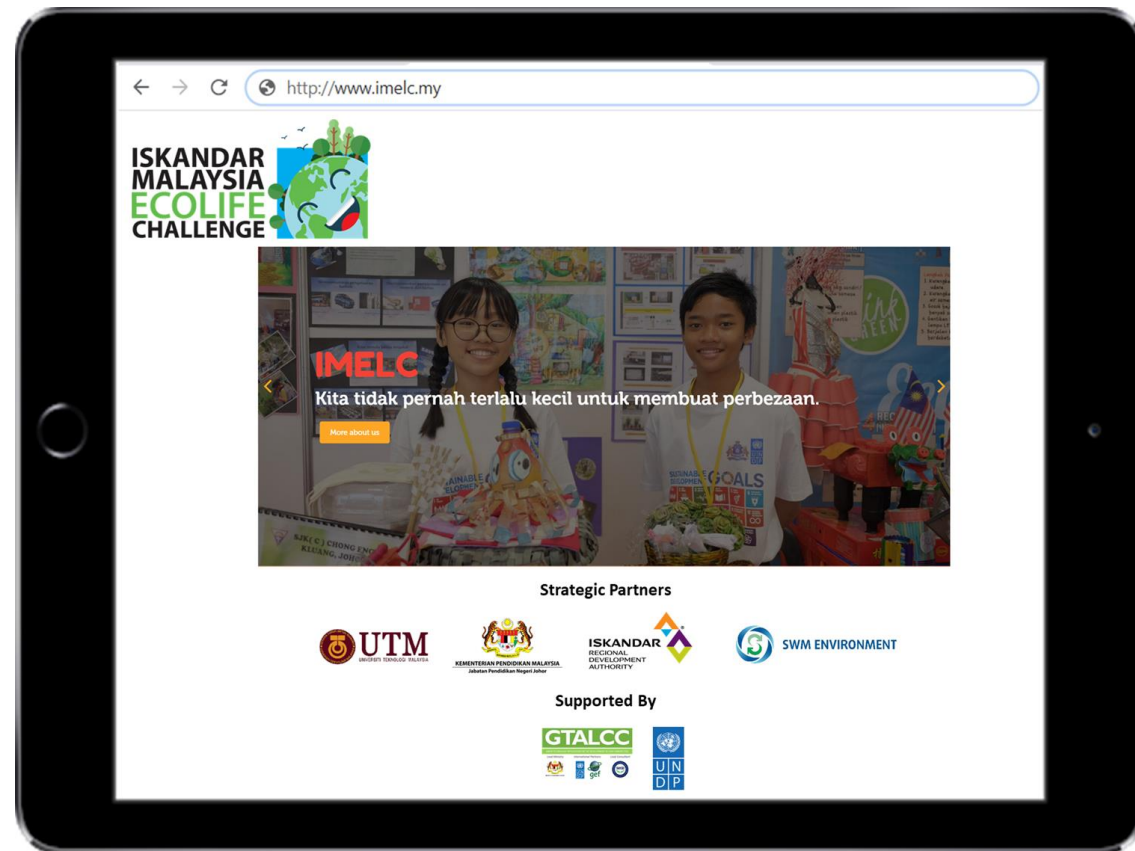
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ISKANDAR MALAYSIA ECOLIFE CHALLENGE

2021 NEW NORM



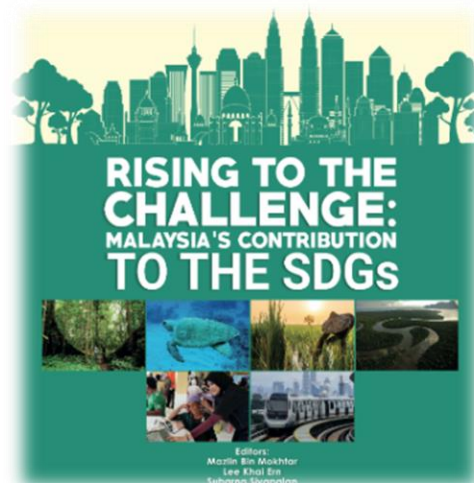
- IMELC will continue for 2021 with more interesting features through digitization and gamification through additional support from UNDP Malaysia Accelerator Lab
- IMELC 2021 will cover the all primary school in Johor State, will cover 906 schools and 100,000 students. The website will be launched in August 2021.





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IMELC AWARDS AND RECOGNITIONS



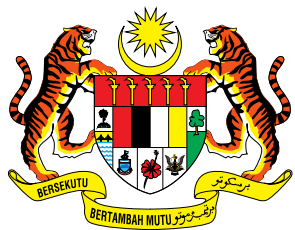
1. Okayama ESD Award (Global Prize) 2018 by the Okayama City
2. RCE Global Award 2015 – Most Outstanding Flagship Project (Climate Change) by United Nations University (UNU)
3. National Intellectual Property Award 2018 (Anugerah Harta Intelek Negara) – Copyright Category (Gold Award) by Intellectual Property Malaysian (MyIPO) for the IMELC workbook designed by UTM
4. Medal of Creativity 2018 by World Intellectual Property Organization (WIPO) for the IMELC workbook designed by UTM
5. International Invention and Innovation Exhibition 2017 (ITEX) – Silver medal
6. Industrial Art & Technology Exhibition 2016 (INATEX) – Silver medal
7. International Conference and Exposition on Inventions by Institutions of Higher Learning 2017 (PECIPTA) – Bronze medal
8. **RISING TO THE CHALLENGE MALAYSIA'S CONTRIBUTION TO THE SDGs**-This coffee table book collates 61 success cases for sustainable development solution by taking into account of global goals and national priorities and **one of it is IMELC**



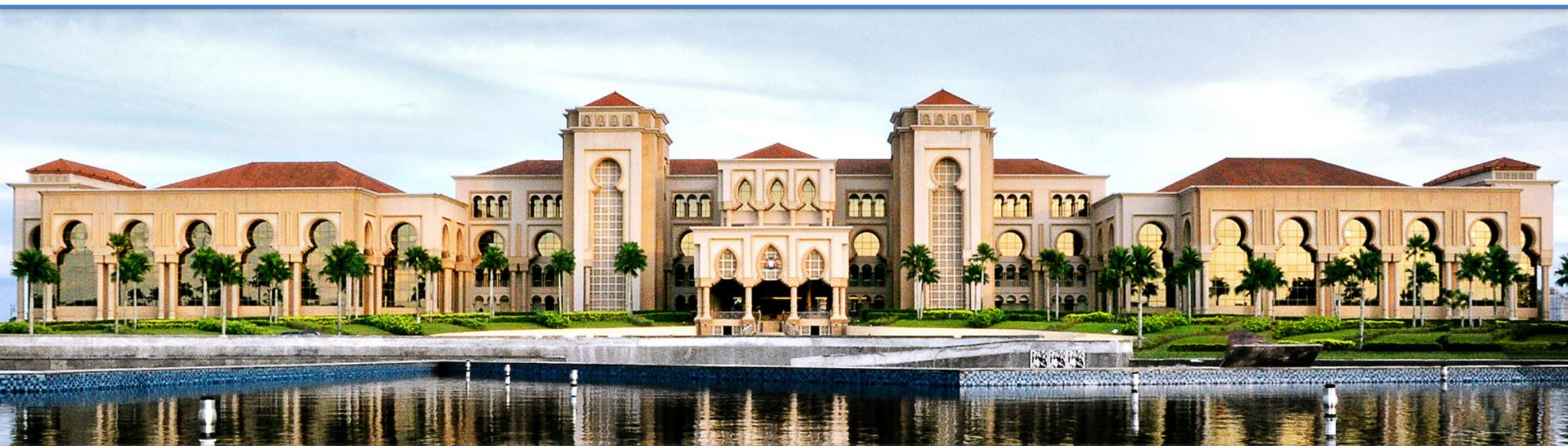
KEY TAKEAWAYS

- Commitment and support from Government secured through IRDA governance structure (Co-Chairmen):
 - Federal Government
 - State Government
 - Local Authorities
- Incorporation of science into policy to implementation and monitoring:
 - Scientific modelling and scenario planning translated into summary for policy makers
 - Embedment into CDPii, proactive implementation and then rigorous monitoring of GHG emissions and programme-tracking
- Participation by all levels of stakeholders through:
 - Government Agencies and Private Sector- Implementation and funding (PPP)
 - NGOs and community- Green/Local Champion and Implementation
 - University – Research (UTM)
 - External parties – GCOM, COP, Japan agencies, Malaysian cities and agencies

* For example IMELC- JPNJ, UTM, SWM, GTALCC, UNDP teachers and parents
- Monitoring effort to ensure good progress and “measure to manage”
- GCOM requirements - climate change Mitigation, Adaptation, Disaster and Risk measurements. [Preparation of LCSBPIM 2030- Climate Action Plan](#)



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THANK YOU



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