

イスカンダル開発地域における 低炭素社会プロジェクトの背景 Background of Low Carbon Society Scenarios Project in Iskandar Malaysia

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アジア地域における低炭素社会シナリオの開発

Research Project

Development of Low Carbon Society Scenarios for Asian Regions



(Iskandar Regional Development Authority)

Site: Iskandar Malaysia (IM)

Objective:

i. To draw up **key policies and strategies** in guiding the development of Iskandar Malaysia in **mitigating carbon emission**. Transforming Iskandar Malaysia into **a sustainable low carbon metropolis by adopting green growth strategies/roadmap.**

ii. To respond to the nation's aspiration for ensuring climate-resilient development for sustainability.

Target Year: 2025 (2005 – 2025)

Resource: Chau Loon Wai, Universiti Teknologi Malaysia, 18 Nov 2018

イスカンダル開発地域における低炭素社会実施計画

2009 – COP 15: 40% GHG Emission Intensity of GDP by 2020 (base 2005) **2015** – COP 21: 45% GHG Emission Intensity of GDP by 2030 (base 2005)





2006 –

Establishment of the South Johor Economic Corridor (SJER), now Iskandar Malaysia

Resource: Boyd Dionysius Joeman, Iskandar Regional Development Authority (IRDA), 18 Nov 2018



Low Carbon Society Blueprint project implementation: 50 of 281



programmes completed/on-going

低炭素社会プログラムの実施状況



A comprehensive built environment assessment tool customised for Iskandar Malaysia. 3 CASBEE Manuals for Building, Municipal & City as well as pilot projects are completed.



Initiated in 2016, Green Accord Initiative Award is is a recognition for green initiatives in townships, industrial and commercial buildings, and individual property.



Building Energy Monitoring & Reporting System (BEMRS) started in 2016, a collaboration with Tokyo Metropolitan Government and 5 Local Authorities in Iskandar Malaysia.



On-going for the past 5 years. In 2018, there is an increase to 400 schools with 40,000 students involved. Winner of RCE Okayama Global Award 2018.



Sungai Pulai Management Plan is completed in 2017 with an aim to ensure the Ramsar site is well managed and serves as a carbon sink for IM.



IM Partnership for Interdisciplinary Studies on Shoreline Ecosystems aims to streamline coastal initiatives from public, private, local and scientific communities.



Green Economy
Guidelines are prepared
for IM 9 promoted
sectors. Implementation
is being done through
advisory, business
seminars, green projects



Responsible Tourism
Development And
Biodiversity Conservation
Started in Kg. Sg. Melayu,
it is duplicated in other
coastal areas of IM.



A collaboration between Pontian and Toyama City under the Future City Initiative, the first floating hybrid mini hydro system in Asia was installed on 21 February 2018 with a capacity of 1000W.



Tg. Piai; ii. Gazettement of Sg. Pulai as a State Park; iii. Strategic enhancement

i. Integrated Coastal

Erosion Prevention Plan for

ii. Strategic enhancement of Kukup Island as a premier ecotourism destination.

京都市こどもエコライフチャレンジをマレーシアへ

しみ削減、節電

京都市の小学生が環境保護に取り組む教育プログ

京の環境教育 マレーシア

NPOなど考案「こどもエコライフチャレンジ



もエコライフチャレンジ」について意見を交わすNPO職員や

が昨年9月に京都市や北九

担当者

約40%の温度効果ガス削

25年まで

言らがこのほど、 岩を生かしたい」と採用 京都での環境対策の積み NPO法人職員らと 京都を訪

地域や家庭で実践する ・イスカンダル開発地 168校で実施して

ラムを考案した京都のNPO法人などは「世界規模 ラム「こどもエコライフチャレンジ」が初めて海外 で地球温暖化防止を目指す新たなチャンス」と期待 年内にマレーシアで行われる。プログ 地域や家庭で実践

エコライフチャレンジ NHO法人気候ネット ク(中原区)や京都青 地球温暖

May 2013 Kyoto Newspaper 京都新聞 2013年5月



Dec 2013 Kyoto Newspaper 京都新聞 2013年12月

低炭素社会コミュニティ活動に関する視察



Ministry of the Environment (MOE) Courtesy Call @ the Global Environment Bureau



Meeting of Japan-Malaysia Experts for Information Exchange on the Role of Environmental Education for a Sustainable Low-Carbon Society @ the JST Tokyo HQ Annex





Environmental Education at Tama City Minami-Tsurumaki Elementary School and UNESCO



Associated School @ Tama City Minami-Tsurumaki Elementary School



Role of Education for a Low-Carbon Society in the Community @ Eco Gallery Shinjuku



Tour of Miyako Ecology Center and Special Seminar, Environmental Education Initiative in Kyoto City @ Miyako Ecology Center





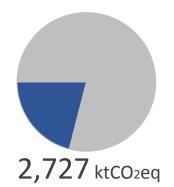
Environmental Activities at a Nursery School @ Kyoto City Oyake Nursery School





Observation of Eco Life Challenge Lessons @ Kyoto City Suzuka Daihachi Elementary School

Action 6.0: Low Carbon Lifestyle



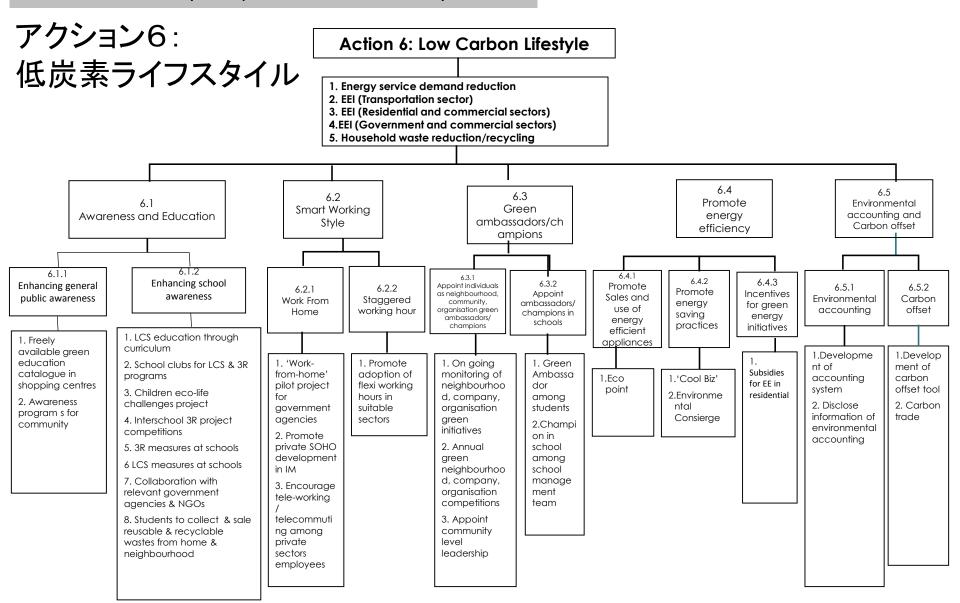
21%



Low carbon lifestyle refers to working and living in a sustainable way of daily life. This means that having a low cost working/ living that comprises less carbon foot print per person, a pure, healthy and natural environment. The behaviours and utilization of resources by an individual, organization or

community that produce low carbon emission and give a minimum impact to the environment and enhance low carbon development.

	Sub-actions	Measures
1	Awareness through Education	Enhancing general public awareness
		Enhancing school children awareness
2	Smart Working Style	Work from home
		Staggered working hour
3	Promote Energy Efficiency	Promote sales and use of energy efficient appliances
		Promote energy saving practices
		Incentives for green energy initiatives
4	Promote "Smart Travel Choices"	Public information on "Smart Travel Choices"
5	Stock-taking for Low Carbon Lifestyle	Promote self management of lifestyle to monitor CO₂ emission and expenditure in residential and community



- Children Eco-Life Challenge project
- Enhancing school children awareness
- Awareness through Education
- Low Carbon Life Style
- Green Community

IM Vision: a <u>Strong</u>, <u>Sustainable</u> metropolis of <u>International</u> standing

First winner experienced ELC in Kyoto 初年度ELC優勝校による京都市訪問

5 student ambassadors who were winner of Eco-Life Challenge visited Kyoto city in 2013













須田真依子「SDGs でつながる京都とイスカンダル・マレーシア」2018年12月24日 メルパルク京都

Iskandar Malaysia Eco-Life Challenge 2013 Winning EAM-Kyoto Visit Reflection learning

21 Dec 2013

Name Ling Sing Ny 1722

Let's write down about this photo in Miyako Ecology Center.



) This photo is about the people use the solar energy to produced the lights.



This photo is about these are some maney in the type.
 Is can be their collection.

Let's write down what you have noticed or found in Eco-Life Challenge Preliminary session at Kawaoka Primary School.

Keywords: Reduce, Select, Change, Global warming, 2°C/temperature, Himalayas, Flood in Arashiyama, Global average temperature, CO2, Seasonal foods,

I have noticed they had boom about the cause of global warming. Beside, they also suchue, select and change their mind to use the object.

Let's write down what you are interested in Eco-Life Challenge Preliminary session at Kawaoka Primary School.

Keywords: Yokunteers talks, Pictures, Photos, Graphs, Movie, Hands sign, Students comments, Quit (1-3) and Explanation, Character,

I am interested in the pictures, photos, students comments and guiz (1-3) and explanation. It was because they could tricked into my mind and heart.

I thought all of these se were very creative.

The ling sing hig 1172 h

Group Work: Let's discuss how people leading a Low Carbon Lifestyle helps to address global warming.

We had known to reduce the plastic bags, and use more eco-bag. Beside, we would also select the right object to some the earth, liked the things could teuse a recycle lost, we should change our mind.

Let's write down what you have noticed or found about the Low Carbon Lifestyle in Kyoto.

Represent Electricity, Water, Venicles or Transportation, Waste, Eco-Cooking, Recycling, Eco-Priendly things, Rememble Energy,
Plants

I have matical about the water was collected from the roun. I found that
the people would walk or cycling in a short distance. Besides, I had seen

many about Eco-Friendly 116705.

Now you know that living an Eco-Life is important to save the Earth. You want to tell your family, friends and teachers to live an "Eco-Life" too. How will you do it after going back from Kyoto?

I want to tell my friends by using the facilities, e-mail or others. I also want to put some pictures and information on website. I must invite my family to know that living an Eco-life is important to save the earth-

Please give your comments freely about Kyoto Manabinomachi Ikikata tankyukan, Kyoto Aquarium, Arashiyama, Kyoto International Manga Musium, Kyoto City Disaster Prevention Center.

I liked the kysto City Disaster Resortion Certer the most because I cald experience the **lost** of disaster, and known to protect myself. For example, the earthquake and strong wind. Then, I also liked the kysto Aquarium very much. It was because I could see the fish, the sea creature with my rated eyes.

Thank you very much! National Institute for Environmental Studies, Japan

"After going back to Malaysia, if you want to tell to live an 'Eco-Life' to your family, friends and teachers, how do you tell them?"



Ling Sing Ng

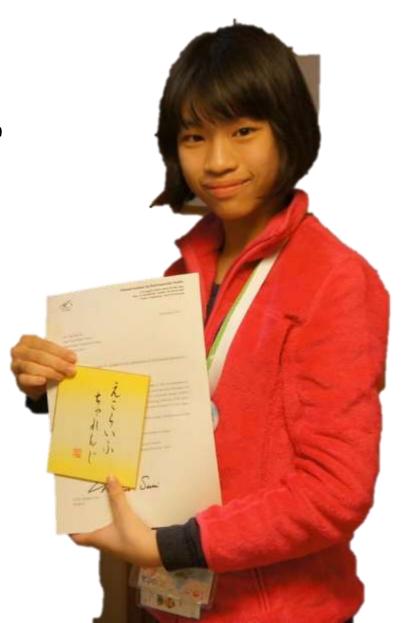
須田真依子「SDGs でつながる京都とイスカンダル・マレーシア」2018年12月24日 メルパルク京都

I want to tell my friends by using the facebook, e-mail or others.

I also want to put some pictures and information on website.

I must invite my family to know that living an Eco-Life is important to save the earth.

Ling Sing Ng



I will discuss with family to reduce the usage of plastic bag. I will also use my facebook to tell my friends that it is very important to save the earth. I will also tell the teacher for always use the both sides of papers.

I will post the knowledge that I have learnt on facebook. I also will tell my parents about what Joanne Lim have happens in the earth.

- 1. We can tell our experience to our friend in facebook.
- We must tell our family that we must present global warming to live a healthy lifestyle. And we must live a **B**ernise Leong Qian Hui Eco Life to prevent global warming.

I will post some photo of eco life on facebook, indicated the serious of the Global Warming to my friend. I will also discuss Ewe Ken Gy with my family to change the lifestyle.



ステューデントアンバサダーのレポート

Day 3(19/12/13)

Kawaoka Primary School

'We arrived at the school that day to have a seminar on environmental

protection





Day +

We went to the Ki there at 10:10am. children Later, at learned that to red steps: 1. reduce, vegetable oil can be

I am very glad to see the electric car in kyoto

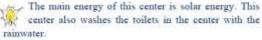


DAY 2:

VENUE 1: OBSERVATION OF MIYAKO ECOLOGY CENTER



Surprise when knowing that there is up to 397 bottles in 500ml which a person uses in one day.



We also had a special seminar to know how the Eco-life Challenge is practiced in Japan and Malaysia.

THE MIYAKO ECOLOGY CENTER



After that, we went to Kyoto city hall to meet the Mayor of Kyoto. The Mayor of Kyoto was very kind and friendly. We represented Malaysia to interact with the Mayor. Next, we exchanged the gifts with each



VENUE 2: KYOTO MANABINOMACHI IKIKATA TANYUKAN JAPANESE



We had the opportunity to get the experiences of various occupations from this student city which is like the Kidrania in Malaysia.



We also learnt to present what's on our minds





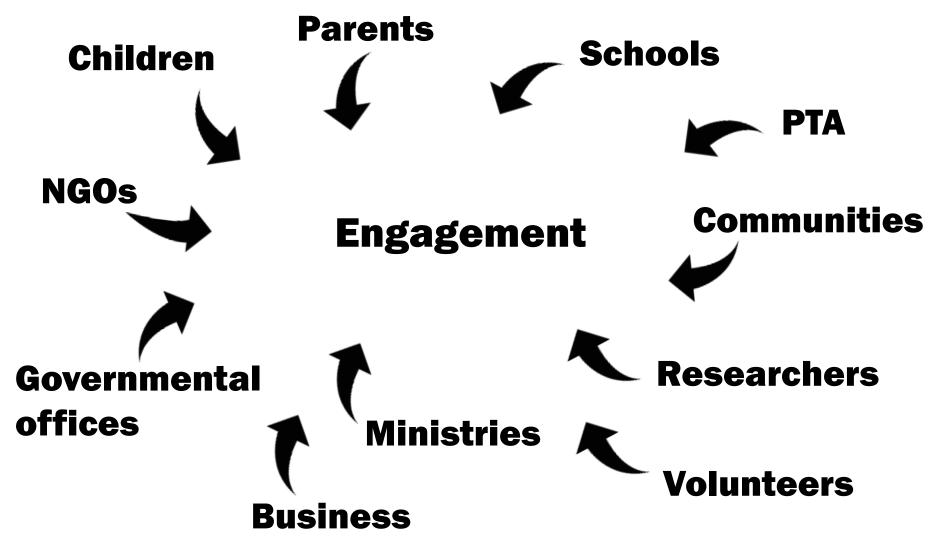






る京都とイスカンダル・マレーシア」2018年12月24日 メルパルク京都

How to involve the stakeholders?





筑波大学大学院 University of Tsukuba 自然保護サーティフィケートプログラム Certificate Programme on Nature Conservation

須田 真依子 Maiko Suda

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