

Progress of SATREPS in FY2014

1. If we cannot go to LCS,...
2. LCS offers higher QOL with less energy demand and lower-carbon energy supply
3. LCS needs good design, early action, and innovations



Designed by Hajime Sakai

Junichi FUJINO

The 20th AIM International Workshop

Tsukuba, Jan 23rd 2015

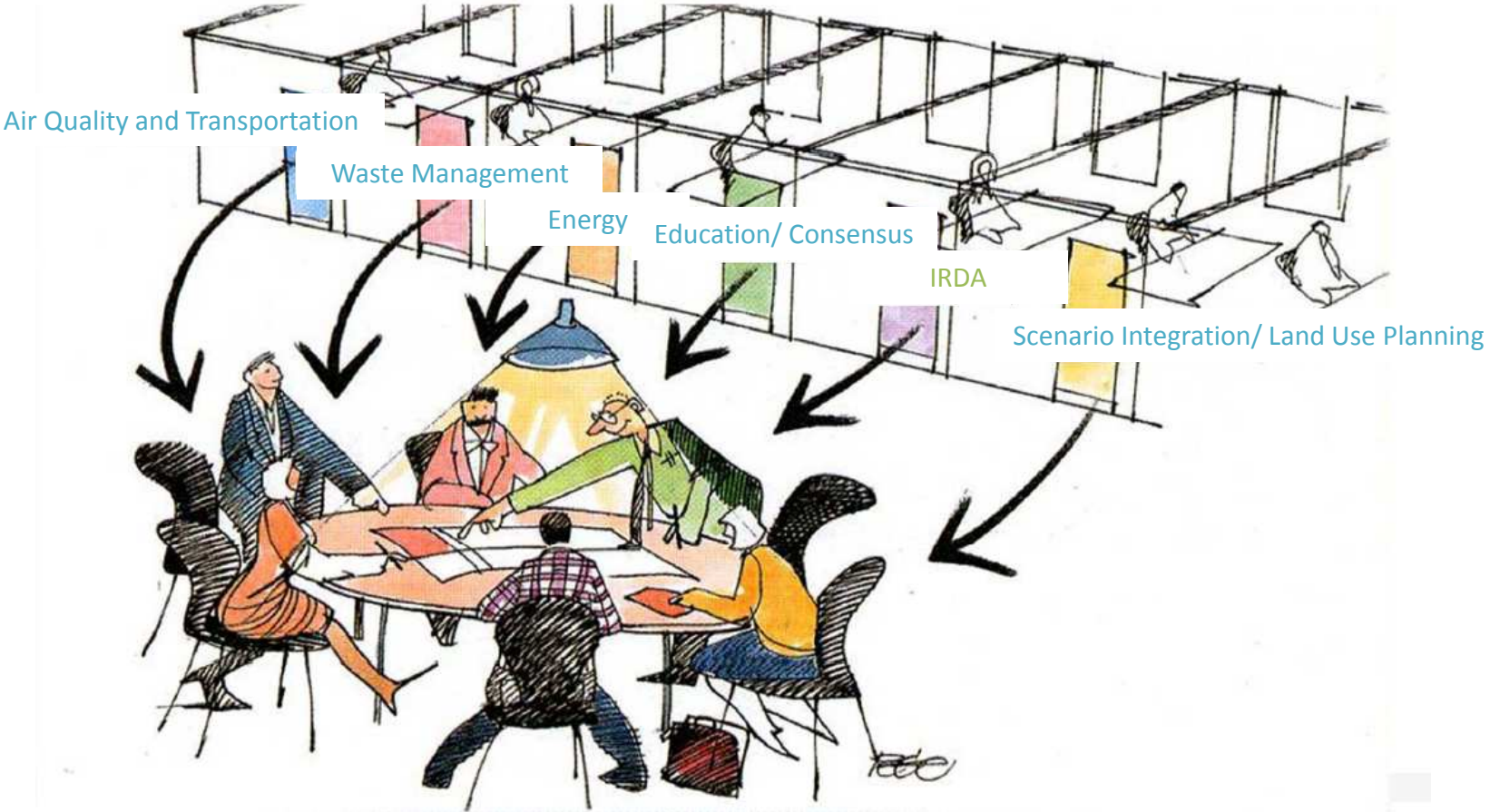


The 10th SATREPS progress meeting, Oct 12-14, NIES



01 Low Carbon Society Scenarios for Iskandar Malaysia

RETHINKING 5 Research Groups + 1 Implementation Agency



Our progress in FY2014



New updates

- 3rd version of LCS BP (Blueprint) and Implementation plan
- CDP (Comprehensive Development Plan)2
- Detail Plan for 5 Local authorities- Implementation projects
- LCS/PDCA manual
- Eco Life Challenge2014 + RCE status
- UN SE4 all (Sustainable Energy for All) model city
- OECD Asia Green Growth City Survey
- COP20 side event

03 Low Carbon Society Proposal Plans for 5 Municipalities

Integrating Iskandar Malaysia and 5 Local Municipalities

Top - down

Low Carbon Society Blueprint for Iskandar Malaysia 2025

Bottom - up

Low Carbon Society Action Plan for Johor Bahru 2025

Low Carbon Society Action Plan for Johor Bahru Tengah 2025

Low Carbon Society Action Plan for Pasir Gudang 2025

Low Carbon Society Action Plan for Kulai Jaya 2025

Low Carbon Society Action Plan for Pontian 2025

Iskandar Malaysia

FIVE (5) Local Municipalities

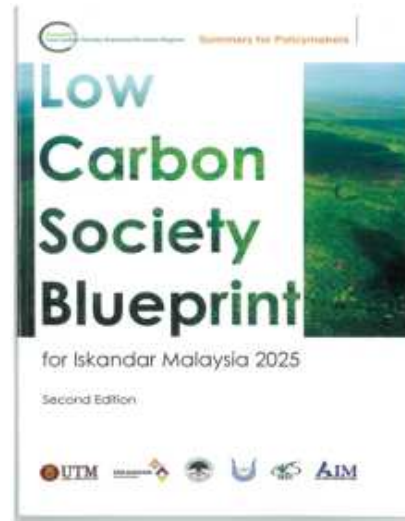
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- Detail Local Action
- Priority and Preference
- Correct Data through Survey
- Chose Implementable measures on the ground
- Pioneering Activities through Pilot Projects



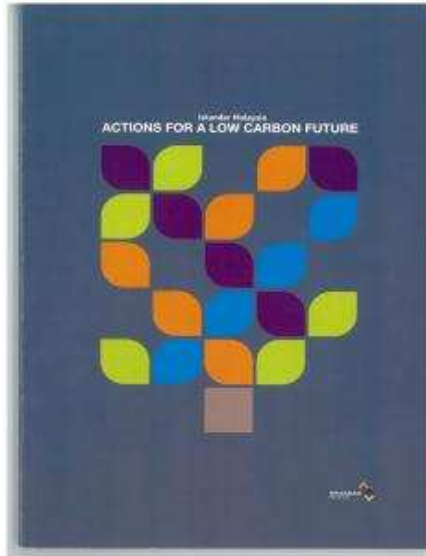
Low Carbon Society Blueprint for Iskandar Malaysia 2025



- 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);281 programmes;
- Each Chapter contains an analysis, list of programmes and the potential GHG emissions reduction;
- IRDA launched its Low Carbon Society Blueprint for Iskandar Malaysia 2025 on 30 November 2012 at the United Nations Climate Change Conference in Doha, Qatar. The ultimate goal is to reduce Iskandar Malaysia’s carbon intensity emissions by 50 per cent by 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	

Iskandar Malaysia: Actions For A Low Carbon Future



- The Booklet 'Actions for a Low Carbon Future' – list of 10 programmes which IRDA has started implementing or have been completed.
- On 6th November 2013, the Iskandar Malaysia: Actions for A Low Carbon Future is the implementation booklet which outlines the 10 programmes, was launched by Malaysia Prime Minister Dato' Sri Mohd Najib Tun Abdul Razak.
- On 15th and 18th November 2013, was the subsequent global launching at COP 19, Warsaw, Poland.

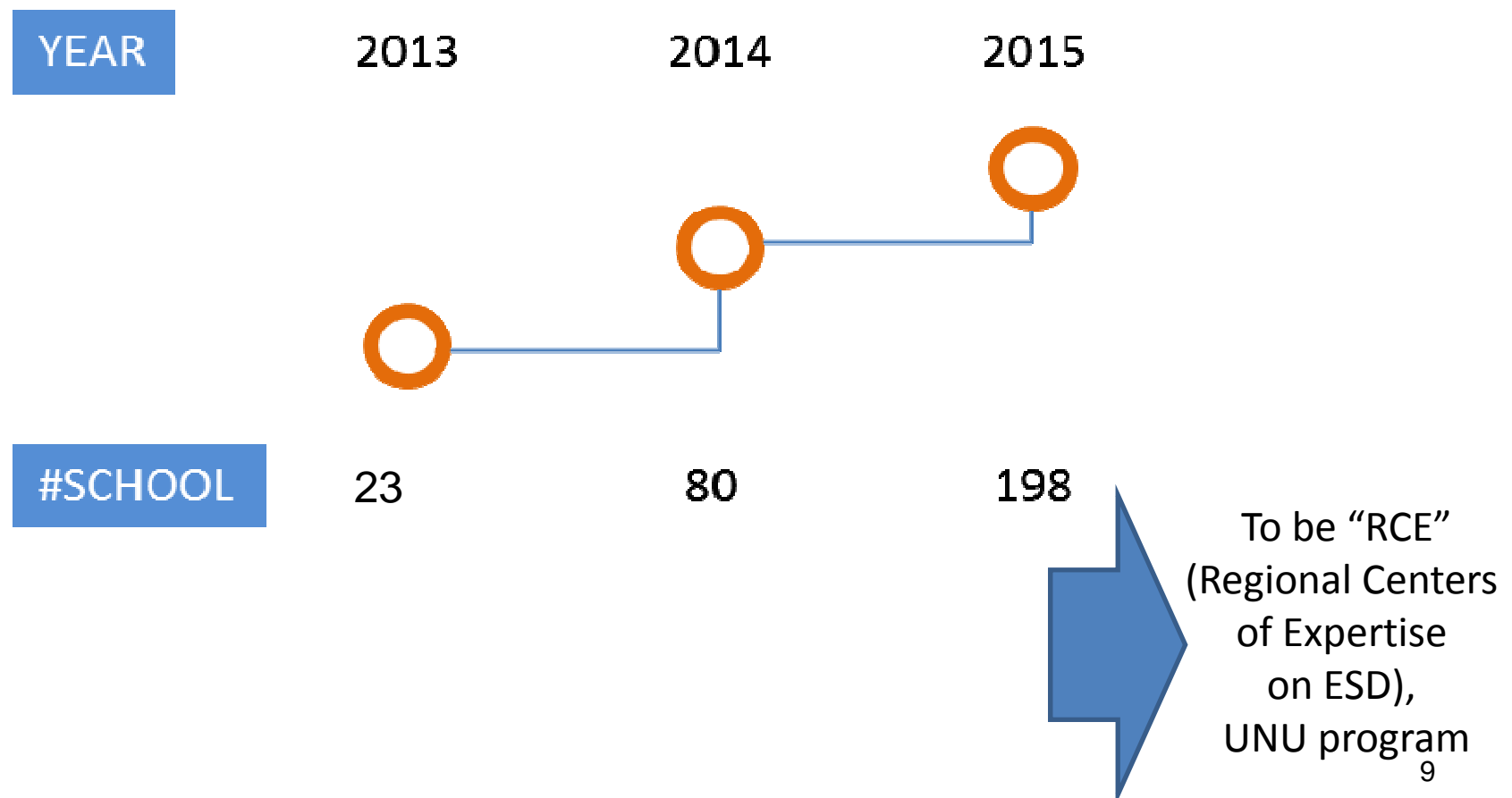
	Programmes	PIC
1	Integrated Green Transportation – Mobility Management System	Kamisah Mohd Ghazali
2	Green Economy Guidelines	Ivy Wong Ling Ling
3	Eco-Life Challenge Project for Schools	Isma Ezwan Safri
4	Portal on Green Technology	Choo Hui Hong
5	Trees for Urban Parks/Forests	Boyd Dionysius Joeman
6	Responsible Tourism and Biodiversity Conservation	Boyd Dionysius Joeman
7	Bukit Batu Eco-Community	Hamdi Mohd Yusof
8	GAIA – Green Accord Initiative Award	Ivy Wong Ling Ling
9	Low Carbon Village FELDA Taib Andak	Dr Ibrahim Ngah (UTM)
10	Special Feature: Smart City – Nafas Baru Pasir Gudang: CLEAN AND HEALTHY CITY	Sakurah Jamaluddin , Sharifah Shahidah Syed Ahmad, Muhammad Fadly Muhammad Nor, Choo Hui Hong

03 Low Carbon Society Proposal Plans for 5 Municipalities

Local Action Plan: Cover and Theme (Example)

<p>JOHOR BAHRU CITY COUNCIL MBJB</p>	<p>JOHOR BAHRU TENGAH MUNICIPAL COUNCIL MPJBT</p>	<p>PASIR GUDANG MUNICIPAL COUNCIL MPPG</p>	<p>KULAI MUNICIPAL COUNCIL MPKu</p>	<p>PONTIAN DISTRICT COUNCIL MDP</p>
<p><small>Local SATREPS: the proposal development of Low Carbon Society, Sustainable for the Region, covers with a view to achieve Low Carbon Society (LCS) status and making a positive impact (LCS) of the national and international level. Under the leadership of the Mayor of Johor Bahru City Council.</small></p> <p><small>The project is to develop a methodology for creating a Low Carbon Society (LCS) and make it ready to be implemented in the region.</small></p> <p><small>The initiative is provided by the Centre for Climate Change and Sustainability (CCCS) in the context of the National Low Carbon Strategy (NLCS) and in line with the vision of the Johor Bahru City Council.</small></p>	<p><small>Local SATREPS: the proposal development of Low Carbon Society, Sustainable for the Region, covers with a view to achieve Low Carbon Society (LCS) status and making a positive impact (LCS) of the national and international level. Under the leadership of the Mayor of Johor Bahru Tengah Municipal Council.</small></p> <p><small>The project is to develop a methodology for creating a Low Carbon Society (LCS) and make it ready to be implemented in the region.</small></p> <p><small>The initiative is provided by the Centre for Climate Change and Sustainability (CCCS) in the context of the National Low Carbon Strategy (NLCS) and in line with the vision of the Johor Bahru Tengah Municipal Council.</small></p>	<p><small>Local SATREPS: the proposal development of Low Carbon Society, Sustainable for the Region, covers with a view to achieve Low Carbon Society (LCS) status and making a positive impact (LCS) of the national and international level. Under the leadership of the Mayor of Pasir Gudang Municipal Council.</small></p> <p><small>The project is to develop a methodology for creating a Low Carbon Society (LCS) and make it ready to be implemented in the region.</small></p> <p><small>The initiative is provided by the Centre for Climate Change and Sustainability (CCCS) in the context of the National Low Carbon Strategy (NLCS) and in line with the vision of the Pasir Gudang Municipal Council.</small></p>	<p><small>Local SATREPS: the proposal development of Low Carbon Society, Sustainable for the Region, covers with a view to achieve Low Carbon Society (LCS) status and making a positive impact (LCS) of the national and international level. Under the leadership of the Mayor of Kulai Municipal Council.</small></p> <p><small>The project is to develop a methodology for creating a Low Carbon Society (LCS) and make it ready to be implemented in the region.</small></p> <p><small>The initiative is provided by the Centre for Climate Change and Sustainability (CCCS) in the context of the National Low Carbon Strategy (NLCS) and in line with the vision of the Kulai Municipal Council.</small></p>	<p><small>Local SATREPS: the proposal development of Low Carbon Society, Sustainable for the Region, covers with a view to achieve Low Carbon Society (LCS) status and making a positive impact (LCS) of the national and international level. Under the leadership of the Mayor of Pontian District Council.</small></p> <p><small>The project is to develop a methodology for creating a Low Carbon Society (LCS) and make it ready to be implemented in the region.</small></p> <p><small>The initiative is provided by the Centre for Climate Change and Sustainability (CCCS) in the context of the National Low Carbon Strategy (NLCS) and in line with the vision of the Pontian District Council.</small></p>
<p>Johor Bahru</p>	<p>Johor Bahru Tengah</p>	<p>Pasir Gudang</p>	<p>Kulai Jaya</p>	<p>Pontian</p>
<p><i>'The Vibrant Heart of Southern Region'</i></p>	<p><i>'Livable Community City'</i></p>	<p><i>'Green Manufacturing Hub'</i></p>	<p><i>'Smart Logistic Hub'</i></p>	<p><i>'Agrobiodiversity Hub'</i></p>

PLANNED COVERAGE FOR ECO-LIFE CHALLENGE IN ISKANDAR MALAYSIA PRIMARY SCHOOLS

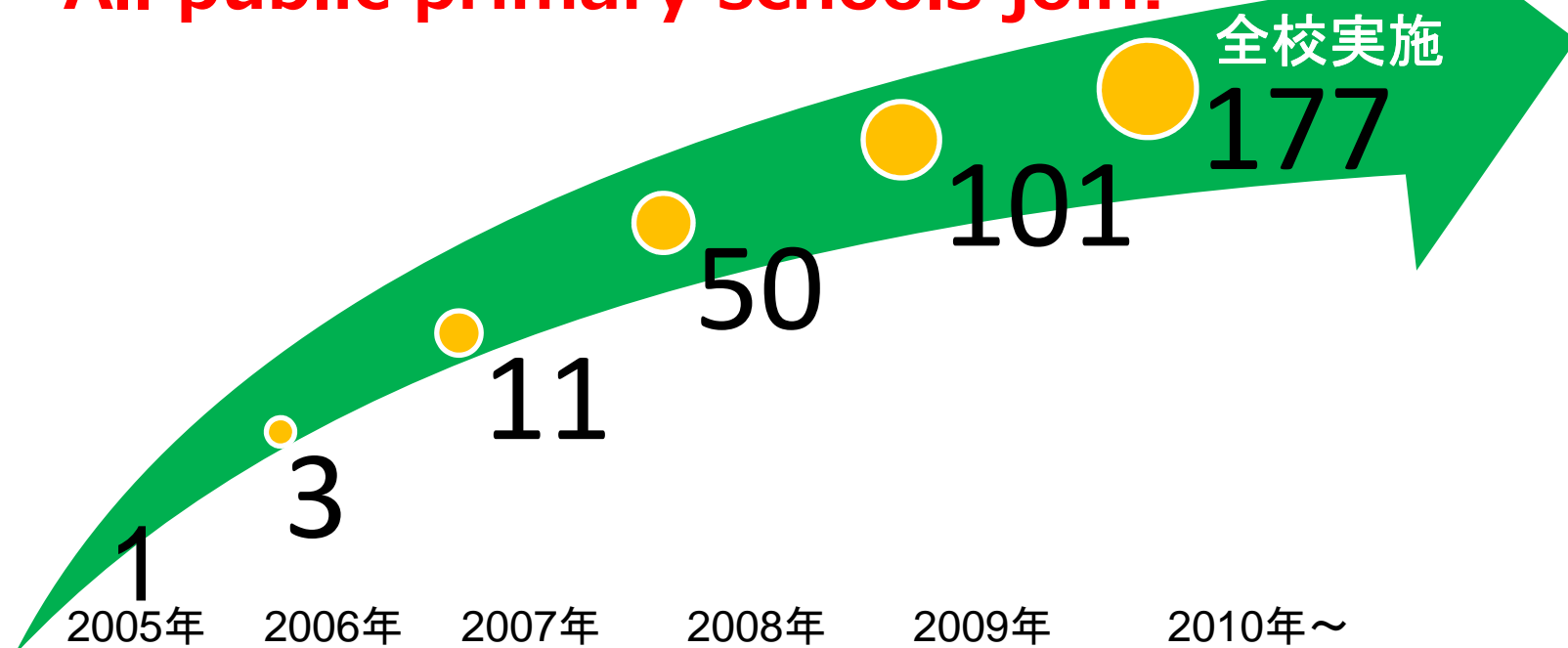


こどもエコライフチャレンジの経緯 History of Eco Life Challenge

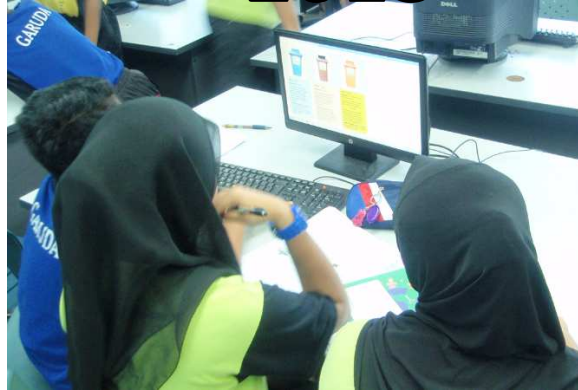
- **2005年度より協働でスタート**

- 京都青年会議所との協働事業として、小学校で地球温暖化・エコライフについての学習会を開催。

- **2010年から京都市との協働で全校実施へ！
All public primary schools join!**



Iskandar Malaysia Ecolife Challenge 2013



Blog of Kyoto City Mayor, Mr. Daisaku Kadokawa



🏠 トップページ
HOME

📖 活動日記
BLOG

📄 政策・manifesto
POLICY

📷 プロフィール
PROFILE

【マレーシア版「こどもエコライフチャレンジ」参加者の皆さんがお越しくださいました】



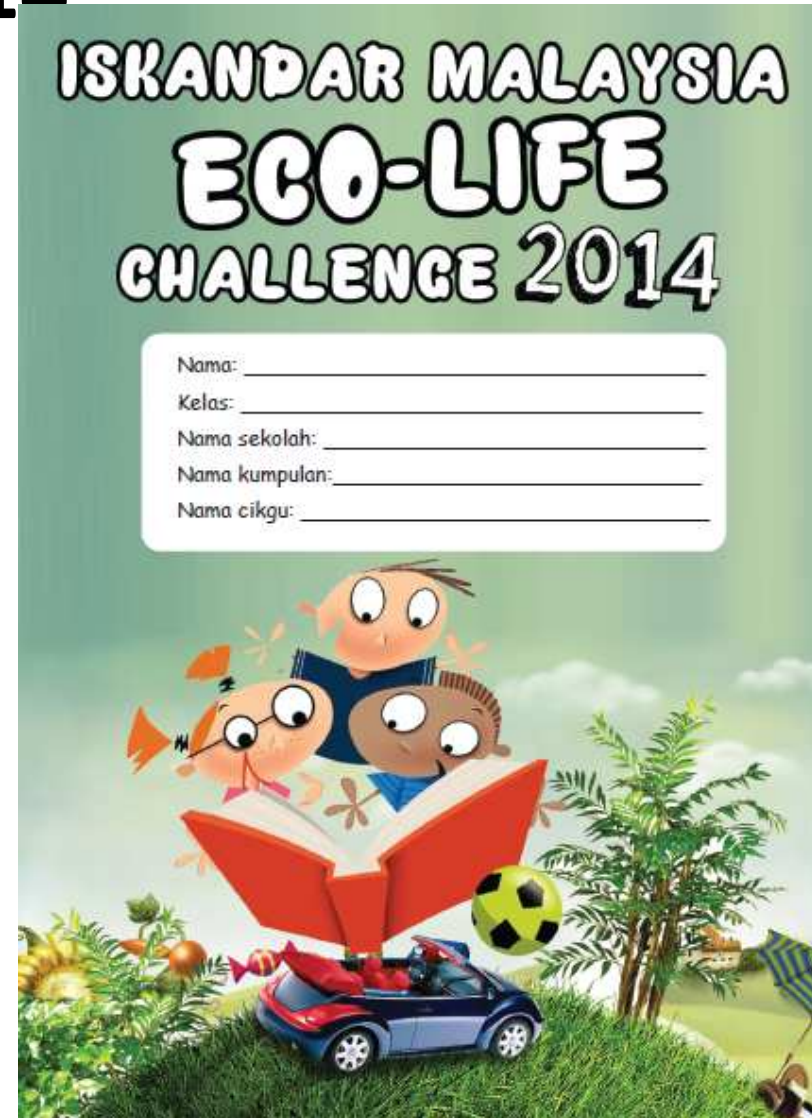
京都市の小学生向け環境教育プログラム「こどもエコライフチャレンジ」。このたび、マレーシアにおいて、本プログラムを元にした「マレーシア版こどもエコライフチャレンジ」が開発されました。

今日は、「マレーシア版こどもエコライフチャレンジ」に取り組まれているジョホール州イスカンダル開発地域の小学生の皆さんと、マレーシア・イスカンダル地域開発庁 イズマ・アズワン副長官、国立環境研究所 藤野主任研究員らがお越しくださいました。

Welcome winners of Iskandar Malaysia Eco Life Challenge 2013
on Dec 2013 in Kyoto City Hall

ISKANDAR Malaysia Ecolife Challenge 2014

- Workbook designed by UTM in Malay
- 80 schools (15623 Y6 students)
- 1 months to complete individually & groups (October 2014)
- Final presentation for 15 schools – 10 Nov 2014
- Judges from Malaysia & Japan



STREETS JOHOR YOUR STORY

Carbon Fighters win Kyoto trip

YOUNG MODELS: SK Kempas primary school is winner of the second Iskandar Malaysia Eco Life Challenge

PEGGY LOH
KUALA LUMPUR
streets@nst.com.my

The team from SK Kempas primary school came out tops in the grand finals of the second Iskandar Malaysia Eco Life Challenge after beating 14 other schools in Iskandar Malaysia, on Nov 10.

Calling themselves Carbon Fighters, the team of five students and two teachers clinched a study trip to Kyoto, Japan.

SK (C) Masai was the runner up while SJK (C) Foon Yew 1 took third place.

The Iskandar Malaysia Eco Life Challenge is a student version of the energy household accounting scheme to help households record and evaluate energy usage such as electricity, water and gas, with the aim of reducing consumption to contribute towards a low carbon society (LCS).

Modelled after a Kyoto City programme based on the original works of Kiko Network, a Kyoto-

based non governmental organisation (NGO), the Malaysian version is a joint development by University Teknologi Malaysia, Johor State Education Department, Kiko Network, Japanese National Institute for Environmental Studies and Iskandar Regional Development Authority (Irda).

Kyoto is a natural destination for the winners' study trip as it was the birthplace of the Kyoto Protocol, the world's first international agreement on the reduction of greenhouse gases.

The visit to Kyoto will let the students observe and experience the Kyoto lifestyle as their citizens are exemplary of an eco-sensitive society.

As the students bridge the concept and application, they will be convinced that the eco-lifestyle can be defined, measured and is attainable over time, and should return to share their knowledge with others.

Irda's vision to implement the Eco Life Challenge as an extra-curriculum activity in all schools based in Iskandar Malaysia by next year is being realised as the schools are promoting activities and counter-measures to bad habits with the aim to develop an LCS, starting with the students.

Since the inaugural event last year, the schools which took part in this year's finals pulled out all the stops to impress the panel of judges with their presentations.

Armed with creative props made



Pupils and teachers from SK Kempas receive the top prize in the Eco Life Challenge from Irda chief executive Prof Datar Ismail Ibrahim (fourth from left). Pix by Peggy Loh

of recycled materials, models of proposed eco-friendly townships, interesting presentations and articulate responses to the judges' questions, the winning teams deserved the merit.

The panel of judges must have been delighted to hear the SJK (C) Foon Yew 1 team's reply to a judge's question, that students understood the reasoning for adopting habits to live in a LCS and are motivated to become Eco Life Warriors like the judges.

Similarly, the team from SKJ (C) Masai sent a clear message in their presentation that "small changes make a big difference".

Guest judge Koichi Shiba of Kiko Network was particularly impressed with the slogan presented by the team from SKJ (C) Chew Min, Pontian, which reads: "Caring and sharing, Practice together, Do it together".

Shiba was at the event with City of Kyoto Global Environment Policy Office Environment Policy Bureau representative Takiya Matsuura and the National Institute for Environmental Studies Ju-

nior Research Associate Makko Suda.

Shiba and Matsuura observed that most of the school teams made good presentations and appear to have a strong grasp of the subject.

They were pleased to share with their counterparts in Iskandar Malaysia the information and experience garnered since 2009 when Kyoto City made the commitment to become an LCS and was selected as the Kyoto Eco-Model City.

While the judges deliberated on the results, Matsuura made a brief presentation to share information on the Kyoto Eco-Model City experience with the audience while Suda helped with the English translation.

Using photos, charts and interesting visuals, his presentation helped to reinforce the students' understanding of what it means to develop an LCS.

As the information helped the audience to realign their thoughts and ideas for a unanimous commitment to adopt an eco lifestyle,

he emphasised that it is important to apply them in daily life.

"Iskandar Malaysia is your future," said Irda Social Development Division head Nor Hisham Hussein, as he challenged the students to adopt an eco lifestyle.

From their enthusiastic responses to his questions, the students were motivated to change and adopt better daily habits to save water and electricity at home and in school.

They were encouraged to change their attitudes and model them after the Japanese people, and to care for the environment.

The schools also took part in two other challenges for Recycling and Energy Saving. SK LKKP Pasir Raja was awarded the top prize of RM1,000 for collecting 4195kg of recycled material, while SK Kota Masai 2 and SJK (C) Kulai Besar took second and third place, respectively.

SK Taman Damai Jaya was awarded the RM1,000 top prize while SK Bandar Pontian took second place, and SK Kempas came in third.



The team from SK Kota Masai 2 gives a step-by-step demonstration in making compost.



A well-researched PowerPoint presentation, a model of a building with eco-friendly features and effective presentation skills, helped the SK Kempas team win the Eco Life Challenge.

11th Nov, 2014, New Strait Times

Final Presentation 10th Nov, 2014



Iskandar Malaysia becomes new RCE since Dec 2014!

What is RCE?

地域における持続可能な教育活動の拠点化

- RCE is a network of existing formal, non-formal and informal education organisations, mobilised to deliver education for sustainable development (ESD) to local and regional communities. A network of RCEs worldwide will constitute the Global Learning Space for Sustainable Development. RCEs aspire to achieve the goals of the [UN Decade of Education for Sustainable Development](#) (DESD, 2005-2014), by translating its global objectives into the context of the local communities in which they operate.
- There are currently 127 acknowledged RCEs worldwide. To find out more about specific RCEs, click on the map below. To find out more about becoming an RCE, download the [Becoming an RCE Factsheet](#) or visit the [RCE Call for Applications page](#)

Regional Centres of Expertise on Education for Sustainable Development



RCEs around the world

There are 127 acknowledged RCEs as of Jan 2014

www.ias.unu.edu/efsd



For more information
 The Global RCE Service Centre
 Education for Sustainable Development Programme
 United Nations University – Institute of Advanced Studies (UNU-IAS)
 Yokohama, Japan
rceservicecentre@ias.unu.edu

Iskandar Malaysia Sustainable and Low Carbon Schools Exhibition 2015

- 7 February 2015 @ UTM
- Invite all schools in IM to submit abstract & profile of their efforts in low carbon
- Select 80 schools to exhibit – will invite some participants from Japan
- Competition format – Gold, Silver, Bronze & Best of the Best
- Juries from Malaysia & Japan
- Poster presentation & Q&A

UNFCCC
COP20/CMP10
in Lima, Peru

Low Carbon City Design by AIM

This side event focuses on city-level low carbon activities especially based on AIM model simulation that has applied for Shiga prefecture, Kyoto city in Japan, Iskandar Malaysia region, Putrajaya city in Malaysia, and Ho Chi Minh City in Vietnam. We discuss how to diffuse implementation actions such as

- ✓ *low carbon projects in Osaka city into Ho Chi Minh City,*
- ✓ *Eco Life Challenge program focused on primary schools in Kyoto city into Iskandar Malaysia Region,*
- ✓ *Kitakyushu Eco town design into Pasir Gudang in Iskandar Malaysia Region,*
- ✓ *monitoring and reporting system of buildings of Tokyo Metropolitan Government into Putrajaya,* and
- ✓ *international networking.*

Japan Pavilion Side Event (Zone F)

15:00-16:30, 9th Dec 2014 (Tue)

Low Carbon City Design by AIM

- How to develop Low Carbon City Climate Change Action Plan using Asia Pacific Integrated Model (AIM) and our next challenge—

15:00-15:05 Opening address

by Japanese Environment Minister Yoshio Mochizuki

Panel on Low Carbon City Design

15:05-15:20 Iskandar Malaysia + Kitakyusyu/Kyoto city

by Prof. Ho Chin Siong (UTM), Dr. Junichi Fujino (NIES), Mr. Hironori Sakai (Kitakyushu city)

15:20-15:35 Putrajaya + Tokyo Metropolitan Government

by Dato' Omairi bin Hashim (Putrajaya), Ms. Yuko Nishida (TMG)

15:35-15:50 Ho Chi Minh City + Osaka city

by Mr. Yuji Kimura (GEC)

15:50-16:00 Tokyo +C40/ICLEI

by Ms. Yuko Nishida (TMG)

16:00-16:25 Discussion

16:25-16:30 Closing remarks

by Dr. Shuzo Nishioka (IGES)



Mr. Mochizuki
Minister of the
Environment Japan

International Forum on the “FutureCity” Initiative

by Regional Revitalization Office, Cabinet Secretariat, Government of Japan



【低炭素都市推進国際会議 in 東京】

The First Forum, Feb 21, 2012@Tokyo

10名の海外招聘者をはじめ、JICA主催の研修プログラムに参加されたアジア諸国等のオピニオンリーダー43名の他、国内参加者を含め、合計約600名の参加。

Prof. Ho and Mr. Boyd joined as experts of JICA FCI courses. Then 2-3 experts join continuously.

The Second Forum, Feb 16, 2013 @Shimokawa, Hokkaido

坂本内閣府副大臣を始め、9名の海外招へい者、JICA主催の研修プログラムに参加したアジア諸国等のオピニオンリーダー39名、その他、国内参加者を含め、合計27か国、約300名の方々が参加。2月17日に森林サイドイベントを実施、藤野が鼎談のモデレーターを担当

Dato' Ismail joined “econmy” panel discussion

Dr. Zaleha (JPBD) joined “evaluation” panel discussion. The mayor of MBBJ joined at Asia Mayor Summit.



インドネシア環境省次官

The Third Forum, Oct 19, 2013 @Kitakyushu

関口内閣府副大臣を始め、11名の海外招へい者、JICA主催の研修プログラムに参加したアジア諸国等のオピニオンリーダー51名、その他、国内参加者を含め、合計43の国と地域から、約400名の参加。藤野がポスターセッション担当。

The fourth forum will be held in Higashi-matsushima, Japan in 6th Dec 2014. Cabinet office organize the first form outside Japan in 8-9th Feb 2015 in JB, Malaysia.



関口内閣府副大臣と国内外の招へい者

The 6th High Level Seminar on Environmentally Sustainable Cities will be held in ***Johor Bahru on 9th and 10th Feb 2015*** (mainly sponsored by Ministry of the Environment Japan (MOEJ))



Towards FY2015

Development of Low Carbon Society Scenarios for Asian Regions



Research Team: Universiti Teknologi Malaysia (UTM), Kyoto University (KU), Okayama University (OU), National Institute for Environmental Studies (NIES)

Joint Coordinating Committee: Iskandar Regional Development Authority (IRDA), Federal Department of Town and Country Planning (JPBD), **Malaysia Green Technology Corporation (MGTC)**

Sponsorship: Japan International Cooperation Agency (JICA) , Japan Science and Technology (JST)

Period: 2011 - 2016

Research Output:

- i. **Methodology** to create LCS scenarios which is appropriate for Malaysia is developed.
- ii. **LCS scenarios** are created and utilized **for policy development** in IM.
- iii. **Co-benefit of LCS policies** on air pollution and on recycling-based society is quantified in IM
- iv. **Organizational arrangement of UTM** to conduct trainings on LCS scenarios for Malaysia and Asian countries is consolidated, and a network for LCS in Asia is established

NEXT Progress Research Meeting will be held in JB on 4th and 5th Feb 2015