

Low Carbon City Design – the case of Iskandar Malaysia Eco Life Challenge-

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, Maiko Suda

NIES (National Institute for Environmental Studies), Japan

COP20/CMP10 side event at Japan pavilion

Peru, Dec 9, 2014

Research to Policy: Policymakers launch LCS implementation plan based on scientific scenario study using AIM model

The LCSBPIM Booklet: “Actions for a Low Carbon Future”

1. Mobile Management System	2. Green Economy Guidelines	3. Eco-Life Challenge Project for Schools
4. Portal on Green Technology	5. Trees for Urban Parks/Forests	6. Responsible Tourism and Biodiversity Conservation
7. Bukit Batu Eco-Community	8. GAIA – Green Accord Initiative Award	9. Low Carbon Village FELDA Taib Andak
10. Special Feature: Smart City – Pasir Gudang ‘NAFAS BARU’: CLEAN AND HEALTHY CITY		



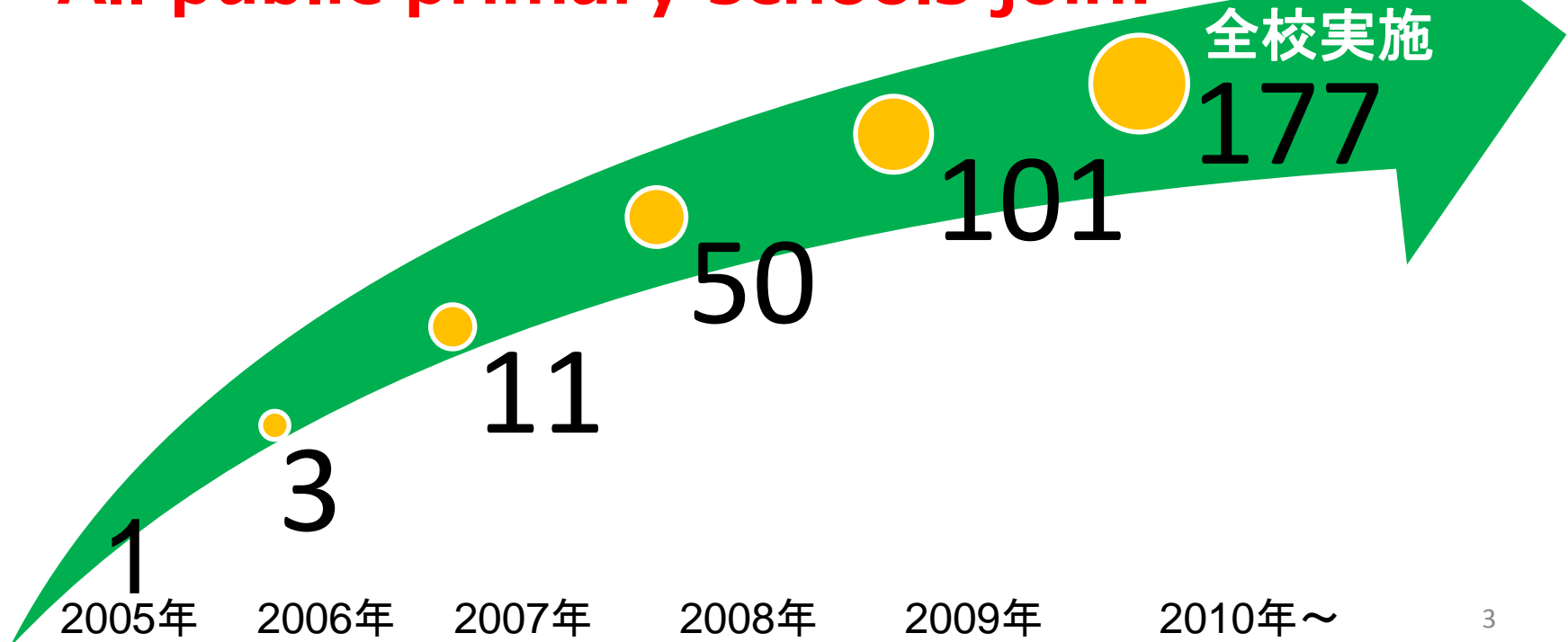
The LCSBPIM Actions for Low carbon Future is a implementation report. This plan select 10 priority projects from a total of 281 programs to be implemented for the 2011-2015. Apart from Triple Base line actions, 3 special projects are also identified- Bkt batu EcO-Community, LC Village FELDA Taib Andak and Pasir gudang Nafas baru

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!**



Field Visit to Education Activities in Japan towards LCS (Sep 2012)



Join Eco Life
Challenge Lesson
in Kyoto primary
school

京の環境教育 マレーシアへ

NPOなど考案「こどもエコライフチャレンジ」



「こど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、イスカンダル開発地域の担当者(京都市中京区)

温暖化防止へ期待

ごみ削減、節電 地域や家庭で実践

京都市の小学生が環境保護に取り組み教育プログラム「こどもエコライフチャレンジ」が初めて海外で採用され、年内にマレーシアで行われる。プログラムを考案した京都のNPO法人などは「世界規模で地球温暖化防止を目指す新たなチャンス」と期待している。

エコライフチャレンジは、NPO法人気候ネットワーク(中京区)や京都青年会議所などが2005年度に始めた。地球温暖化の仕組み、ごみ削減や節電の方法をテキストで学

び地域や家庭で実践する内容で、現在は市内の全小学校168校で実施している。

採用するのは、マレーシア・イスカンダル開発地域。環境保護と両立した経済発展を目指し、25年までに約40%の温室効果ガス削減を目標に掲げる。担当者が昨年9月に京都市や北九州市の環境施策を視察し、「京都での環境対策の積み重ねを生かしたい」と採用を決めた。

イスカンダル地域の担当者らがこのほど、京都を訪れ、NPO法人職員らと懇談。同地域のイスマ・アスワンさん(41)は「環境にやさしい一流のまちを形成するきっかけにしたい」と話していた。

(岸慶太)

Academia:
Universiti Teknologi Malaysia

UTM

Workbook
Evaluation

Teacher
Training



**Primary schools
In Iskandar Malaysia**

Coordinating
Budget

School
Arrangement

IRDA

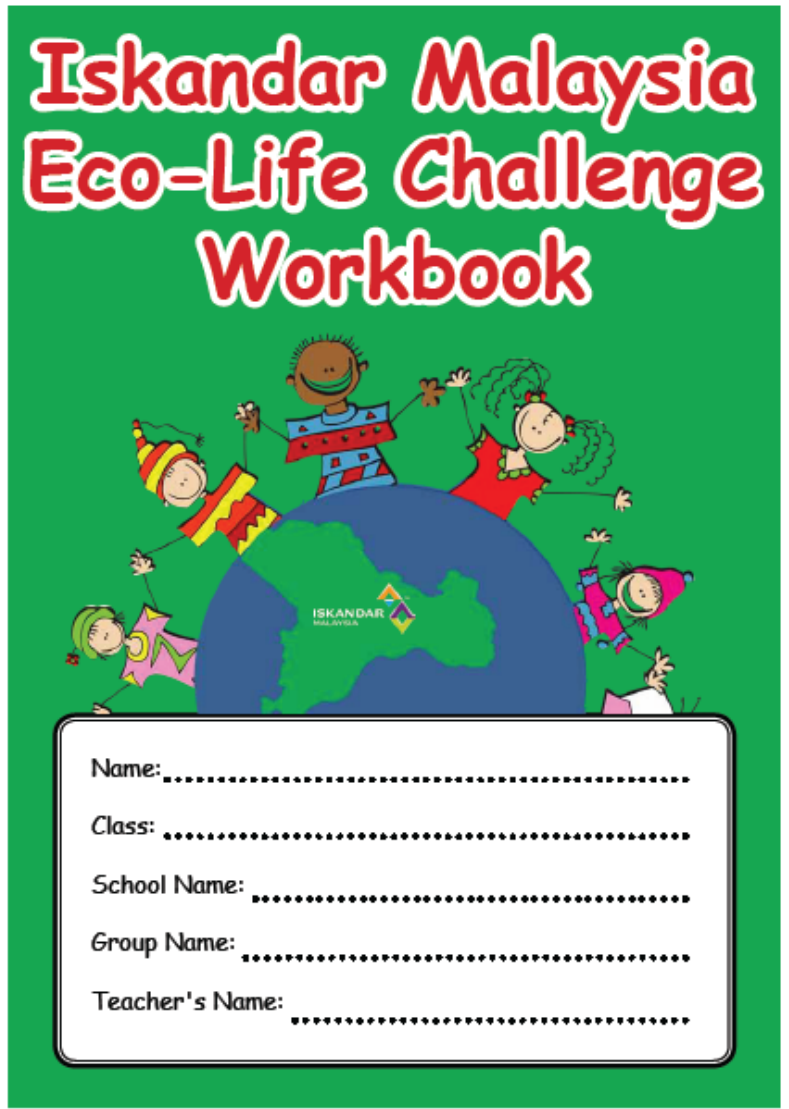
JPNJ

Implementer:
Iskandar Regional
Development Authority

Educator:
Johor State
Department of Education

Iskandar Malaysia Ecolife Challenge 2013

- Workbook designed by UTM
- 23 schools (2800 Y6 students)
- 1 months to complete individually & groups (October 2013)
- Final presentation
- No of workbooks distributed – 3790
- No of workbooks returned – 1807
- Return rate – 47.68%
- Low rate because low awareness among teachers and lack of monitoring at the district level.



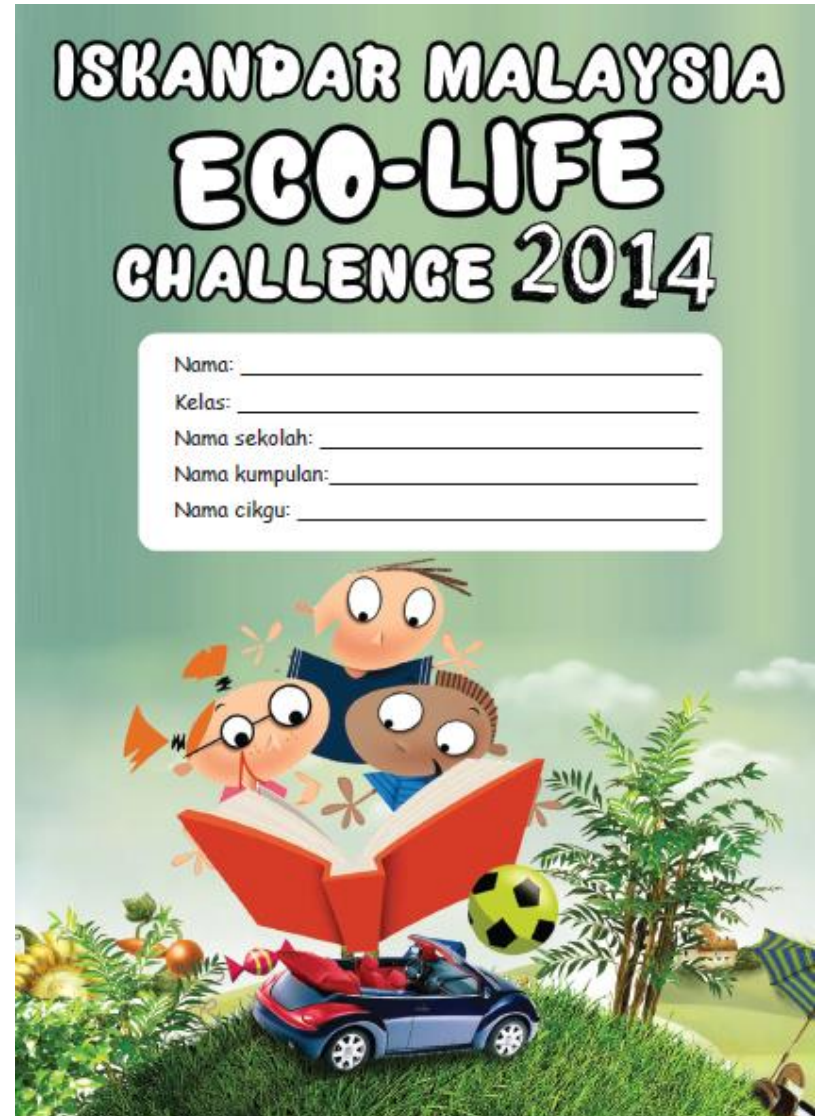
Iskandar Malaysia Ecolife Challenge 2013



No	Item	Pre-ELC	Post-ELC	Diff.
1	Shut down TV when you do not watch it.	3.11	3.22	0.11
2	Turn off lights in a room where no one uses the room	3.15	3.22	0.07
3	Do not use too much of air conditioner.	1.28	1.93	0.65
4	Be careful in setting the temperature of air conditioner.	1.28	1.70	0.43
5	Close refrigerator soon after you use it. Do not open it when not necessary.	2.65	2.98	0.33
6	Iron many clothes at one time.	2.25	2.57	0.32
7	Do not leave water running when washing teeth or face.	2.70	2.92	0.21
8	Washing school shoes using pail instead of running water.	2.54	2.83	0.29
9	Bring my own bag (eco bag) to shopping.	1.80	2.45	0.65
10	Collect plastic bags for other usage.	3.46	3.65	0.19
11	Use notebooks with recycled-mark.	1.75	2.36	0.61
12	Reuse unused side of paper.	2.76	3.26	0.50
13	Bring water bottle, instead of buying drinks.	2.86	3.08	0.21
14	Separate waste and recycle them.	2.23	2.93	0.70
15	Use bicycle or walk for short distance.	2.97	3.15	0.18
16	Leave no food. Do not waste food.	2.99	3.20	0.20
17	Discuss with your family about environmental issues.	1.67	2.52	0.85

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



Briefing to Principals

15 Sep 2014 @ Iskandar Malaysia Information Centre (IMIC)



Briefing to Teachers

24 Sep 2014 @ Ar-Razi Auditorium, T02, Faculty Bioscience and Medical Engineering (FBME), UTM



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

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KUALA LUMPUR
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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 Datuk 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 Takiyu Matsuura and the National Institute for Environmental Studies Ju-

nior Research Associate Maliko 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 translated 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.

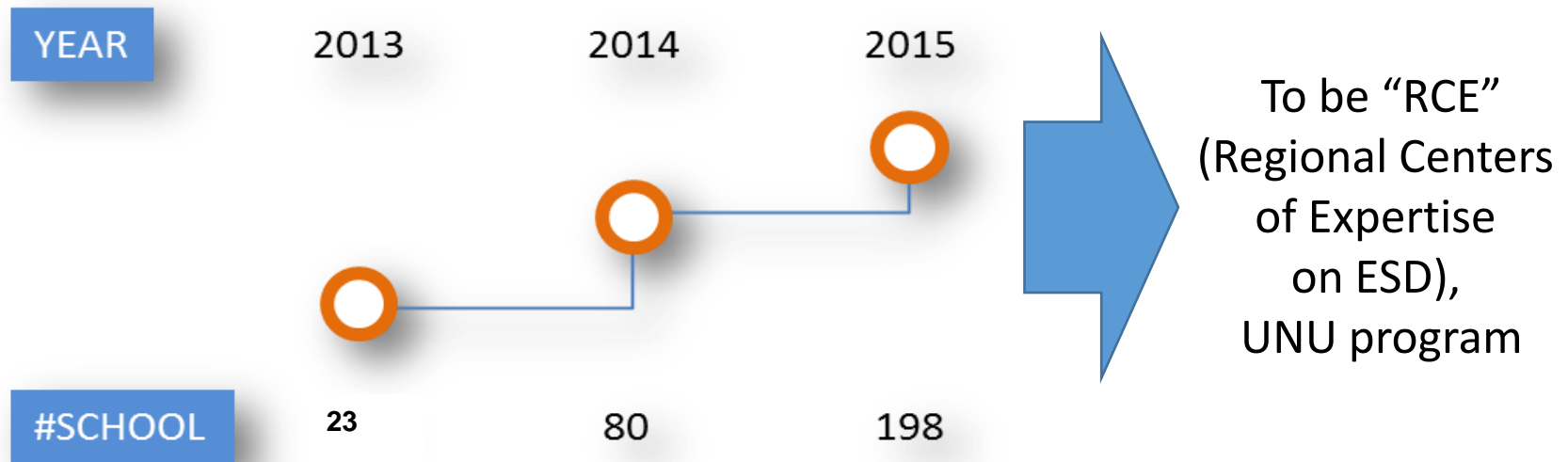


A well-researched PowerPoint presentation, a model of a building with eco-friendly features and effective presentation skills, helped the SK Kempas team win the Eco Life Challenge.

Final Presentation 10th Nov, 2014



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



- 23 schools as pioneering batch for ASPnet (Unesco) primary category in Malaysia
- Initial stage (2013) in competition format as a study platform
- To be scaled up by incorporating ELC as lesson component in all planned 198 ASPnet (UNESCO Schools) primary schools in Iskandar Malaysia.

UNESCO World Conference on ESD
(Education for Sustainable Development)
In Nagoya Japan on 10th Nov 2014

Japan International Cooperation
Agency (JICA)

独立行政法人 国際協力機構 (日本)



Low Carbon Society Blueprint
for Iskandar Malaysia 2025

