

Nearly Zero-Energy Educational Facilities:

An overview of international trends and advanced cases

To protect environment is addressed as a top priority matter which the Japanese Government must make the utmost efforts towards. Following the Great East Japan Earthquake and the nuclear accident, the Japanese Government mapped out a basic policy for reduction of the nuclear-dependence and maximum expansion of renewable energy and energy-saving efforts. EU member states have set their goal for all new buildings to be "nearly zero-energy" buildings by 31 December 2020 by achieving enhancement of insulation and airtight of the buildings, making full use of high efficiency appliances and renewable energy technologies.

Under the circumstance, in the field of educational facilities in Japan, it is also required to make greater efforts to promote environmental measures, such as adoption of renewable energy technologies and energy-saving efforts.

In the first part of the seminar, Tony Sheppard, Chair of Centre for Effective Learning Environments (CELE) in OECD, gives an opening speech about international trends and advanced cases of "nearly zero-energy" educational facilities.

Followed by the opening speech, two more speeches will be given by the Japanese experts, Hiromi Komine and Osamu Koizumi about recent trends of research and investigation on environment-friendly educational facilities and introduction of recent designs of environment-friendly educational facilities aimed at zero-energy in Japan.

*'nearly zero-energy building' means a building that has a very high energy performance, as determined in accordance with the below directive. The nearly zero or very low amount of energy required should be covered to a very significant extent by energy from renewable sources, including energy from renewable sources produced on-site or nearby.
[DIRECTIVE 2010/31/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 May 2010 on the energy performance of buildings]



Tony Sheppard

Technical Manager, Planning and Buildings Unit
Department of Education and Skills, Ireland
Chair, Centre for Effective Learning
Environments, OECD

*Title: Nearly Zero Energy Educational Facilities:
An overview of International Trends and Introduction of
Advanced Cases*



Hiromi Komine

Professor, Dr. Engineering,
Department of Architecture and
Civil Engineering, Faculty of Engineering,
Chiba Institute of Technology, Japan

*Title: Recent Trends of Research and Investigation on
Environment-Friendly Educational Facilities:
Research on Eco-schools from the beginning to date
In Japan*



Osamu Koizumi

Chief, Architectural Design Group2,
Architectural Design Division,
NIHON SEKKEI, INC., Japan

*Title: Aimed at Zero-energy Educational Facilities:
Introduction of Recent Designs of Environment-
Friendly Educational Facilities in Japan*

Admission Free
Certificate of Attendance Required

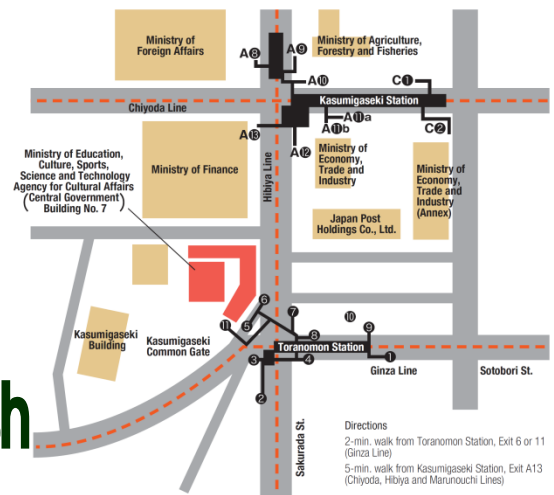
2013. 1. 22

**Ministry of Education,
Culture, Sports, Science
and Technology
Auditorium No. 2**

**Simultaneous
Interpretation
provided**

- ◆ **Date** 2013, January 22nd (Tue) 14:00~17:00
Doors open 13:30~
- ◆ **Venue** Ministry of Education, Culture, Sports, Science and Technology
Auditorium No.2
3-2-2 Kasumigaseki, Chiyoda-ku, Tokyo
former Government Building of Ministry of Education 6F
※We will stop accepting applications when we have the maximum applications.
- ◆ **Host** National Institute for Educational Policy Research
- ◆ **Support** Architectural Institute of Japan
- ◆ **Audience** People interested in environment-friendly educational facilities
such as architects, policy makers and university students of
architectural courses

◆ **Access**



For the details such as how to apply, deadline, etc, please visit the URL below.

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Nearly Zero-Energy Educational Facilities:

An overview of international trends and advanced cases

2013. 1. 22 (Tue)

14:00-17:00 MEXT No. 2 Auditorium

Program **Simultaneous Translation Admission Free (Certificate of Attendance Required)**

■ Opening Remarks (14:00~14:10)

Haruki Ozaki/ Director-General,
National Institute for Educational Policy Research

■ Speech (14:10~14:55)

Nearly Zero Energy Educational Facilities:

-An overview of International Trends and Advanced Cases-

Tony Sheppard /Technical Manager, Planning and Buildings Unit,
Department of Education and Skills, Ireland
Chair, Centre for Effective Learning Environments, OECD

— Break —

■ Speech (15:10~15:55)

Recent Trends of Research and Investigation on Environment-Friendly Educational Facilities:

-Research on Eco-schools from the beginning to date in Japan-

Hiromi Komine / Professor, Doctor of Engineering,
Department of Architecture and Civil Engineering,
Faculty of Engineering, Chiba Institute of Technology, Japan

— Break —

■ Speech (16:10~16:55)

Aimed at Zero-energy Educational Facilities:

-Introduction of Recent Designs of Environment-Friendly Educational Facilities in Japan-

Osamu Koizumi / Chief, Architectural Design Group2, Architectural Design Division,
NIHON SEKKEI, INC., Japan

■ Closing speech (16:55~17:00)

Cover photos

① ② ③ ④ ⑤ ⑥ ⑦

- ① A classroom's terrace, whose roof is gardened
- ② A classroom covered by a green curtain
- ③ A bright staircase-like area with natural daylight from high window
- ④ Observation of solar cell modules and a micro wind power generation
- ⑤ Firsthand experience of solar cell modules by seeing and touching
- ⑥ A first-completed GRD school
- ⑦ A typical classroom demonstrating good daylight distribution

- Onden Elementary School, Musashino City, Tokyo
- Itabashi No.7 Elementary School, Itabashi City, Tokyo
- Misaki Junior-high School, Isumi City, Chiba
- Oshihara Elementary School, Showa Town, Nakakoma-gun, Yamanashi
- Arakawa Elementary School, Kinokawa City, Wakayama
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Tony Sheppard



Hiromi Komine



Osamu Koizumi

How to apply

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Deadline 2013 January 15(Tue) (We will stop accepting applications when we have the maximum applications.)

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