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# **Report on Sustainable Building 2002 (SB02) in Oslo and Introduction of SB05 in Tokyo**

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**2nd Asian Forum in Tokyo, JAPAN**

# What is Sustainable Building?

## Principle Elements of Sustainable Building by the OECD

- 1) Resource Efficiency
- 2) Energy Efficiency
- 3) Pollution Prevention (IAQ, CO<sub>2</sub>)
- 4) Harmonization with Environment
- 5) Synthetic Approach (CASBEE)

# What are SB Conferences ?

**1<sup>st</sup> Conference in 1998 in Vancouver, Canada as Green Building Challenge '98**

600 participants from 30 countries including 14 GBC Countries

**2<sup>nd</sup> Conference in 2000 in Maastricht, Netherlands as Sustainable Building**

800 participants from 49 countries including 20 GBC Countries

**3<sup>rd</sup> Conference in 2002 in Oslo, Norway as Sustainable Building (SB02)**

1100 participants from 64 countries including 23 GBC Countries



# **1. Outline of SB02 in OSLO**

**The Challenge / The Knowledge  
/ The Solutions**

## **Theme of Plenary Sessions**

- 1) Experiences from World Summit**
- 2) Explicit and Tacit Knowledge**
- 3) From Ideas to Business**
- 4) Sectorial Environmental Plans**
- 5) Economic Profitability**

# Category of Sessions in SB02

## 1) Buildings

Design, Energy, FM, Indicators, Labeling etc.

## 2) Cities

Infrastructure, Developing Countries etc.

## 3) Products

Recycling, Harmful Substances etc.

## 4) Business

Policy, Investment, Competitive Advantages

## 5) Green Building Challenge (GBC)

# Conclusions of SB02

- **This is the moment to proceed from agendas to action.**
- **Existing building stock should be the main starting point .**
- **GBC project indicates that the use of renewable energy is growing.**
- **Active government involvement in sustainable built environment is essential.**
- **There is need for int'l initiatives.**

## 2. International Activities on Sustainable Building

- **Sustainable Building Conference**
- **GBC** (Green Building Challenge)
- **iisBE** (Int'l Initiative for a Sustainable Built Environment)
- **CIB** (Int'l Council for Research and Innovation in Building and Construction)
- **UNEP** (United Nations Environmental Program)
- **OECD** (Org. for Economic Cooperation and Development)

And others such as IEA, UNDP, RILEM, UIA, ISO etc.

# 3. SB05 in Tokyo, JAPAN

## Toward a Sustainable Future

### Outline of SB05 Tokyo Conference:

- Host: Ministry of Land, Infrastructure and Transport (MLIT), Japan
- Date : 26-28 Sept., 2005
- Place: Tokyo, Japan
- Participants: 1000-1500



# SB05 will give extra attention to the following themes;

- Developing countries
- Climate change
- Re-use, recycling and waste
- Existing building stock
- Non-industrialized approaches to Sustainable Building





# 4. Needs for Asia

- 1) Environmental Conditions**
  - Different Climate and Nature
- 2) Economic Conditions**
  - Needs for Economic Growth
- 3) Social Conditions**
  - Large population, High density
  - Different Culture and Life style
- 4) Technological Conditions**
  - Different Materials and Disaster

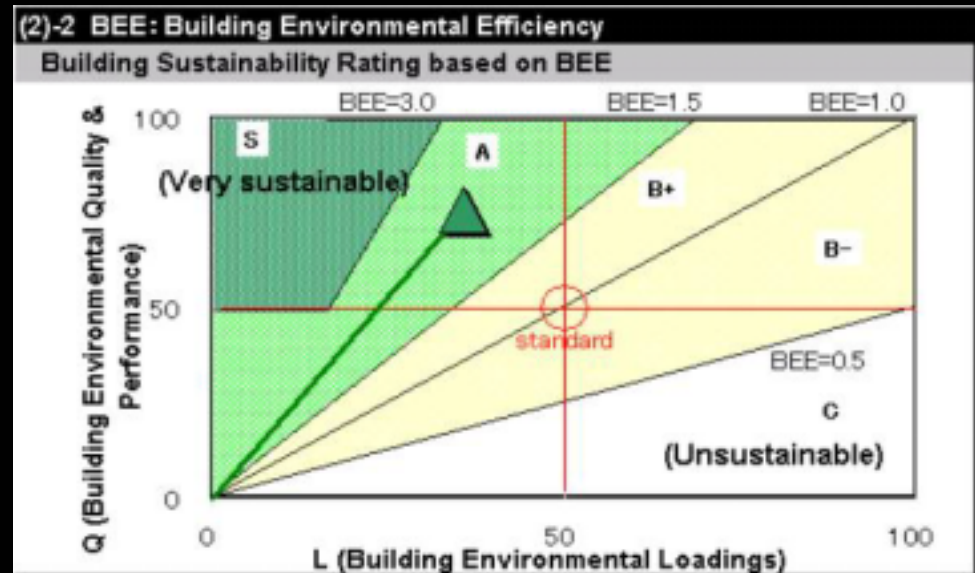
# Proposal of CASBEE for Asia

## Building Environmental Efficiency(BEE)

$$\text{BEE} = \frac{\text{Building Environmental Quality \& Performance}}{\text{Building Environmental Loadings}}$$

### CONTENTS

- Energy Efficiency
- Resource Efficiency
- Local Environment
- Indoor Environment



# Future Steps

1. Discuss and form **policy guidelines** on sustainable building in Asia
2. Develop and diffuse **proper models** of sustainable building in Asia
3. Propose the guidelines and models to international platforms like **SB05**
4. **5<sup>th</sup> Asian Forum** will join the SB05 to exchange and diffuse Asian results.