Sustainable buildings can be defined as “those buildings that have minimum adverse impacts on the built and natural environment, in terms of the buildings themselves, their immediate surroundings and the broader regional and global setting” (Hasegawa, 2003). At present, there are many schools of thought on sustainable architecture or green building. In general, it is believed that cradle-to-cradle design will enable an ecologically intelligent approach to architecture (McDonough and Braungart, 2003) and life-cycle thinking is a key to the sustainable construction concept (Kohler and Moffatt, 2003).

Although the general principles of sustainable building are not too hard to understand, there are many aspects and issues about the sustainable building practices that need to be studied and evaluated carefully. When people try to study the related concepts and practical applications, they often find it difficult to locate good information sources, practical examples and key references. In order to promote sustainable design and planning of buildings, efforts have been made to develop the following Internet Websites to provide useful information and resources to all the interested persons (including developers, building designers, researchers, students, etc.). This R&D work is an extension of the Web-based learning environment developed by Hui and Cheung (1999) and a side-product from the research on building energy efficiency and sustainable architecture.

At present, there are three Websites established at the University of Hong Kong (HKU).

• Case Studies on Sustainable Buildings
  http://www.hku.hk/mech/sbe/case_study/index/top.htm

  A knowledge base of case studies and resources is established to illustrate the sustainable design strategies and features in realistic building projects all over the world. The database of case studies can be searched by project names, locations, design strategies and design features.

• Web Links on Sustainable Buildings

  Key information is collected from various sources and organised in a systematic way for efficient study and exploration of the subjects.

• References on Sustainable Buildings
Selected references including books, reports, audio/visual materials and journals are listed. Most of the materials can be found in the HKU Libraries. To facilitate retrieval, links are provided to the library catalogue system for further information and study.

It is hoped that by disseminating the Internet resources, more people could learn about the sustainable building concepts and a better understanding of the sustainable design strategies can be achieved at all levels of the society. Comments, suggestions and requests for corrections are welcomed.

References


Introduction
This website is developed with the aim to promote sustainable design and planning of buildings. A knowledge base of case studies and resources has been established to illustrate the sustainable design strategies and features in realistic building projects all over the world. The database of case studies can be searched by project names, locations, design strategies and design features.

Search by:
* Project Names

Search by:
* Locations
  >> Japan
  >> Germany
  >> Hong Kong
  >> Netherlands

Search by:
* Design Strategies
  >> Site Planning
  >> Building Form
  >> Building Orientation
  >> Prefabrication Construction
  >> Building Envelope
  >> Natural Ventilation
  >> Natural Lighting
  >> Green Space
  >> Services, Equipment and Controls
  >> Water Cooling
  >> Rain Water System
  >> Water and Waste Control
  >> Noise & Air Control
  >> Materials
  >> Renovation / Re-Use

Search by:
* Design Features
  >> Photovoltaics
  >> Fuel Cell
  >> Day-Lighting
  >> Sunspaces
  >> Atrium
  >> Green Roofs
  >> Trombe Walls
  >> Active (Double-Faced) Curtain Walls
  >> Light-Redirecting Device
  >> High-Performance Windows
  >> Shading Devices
  >> Water-Saving Device
  >> Heat Recovery System
  >> Solar Thermal Systems
  >> Wind Energy

Links to other case studies:
* Grouped by areas/locations
  >> Asia
  >> Africa
  >> Australia
  >> Europe
  >> North America
  >> International

Related:
* HKU
  >> HKU Arch
  >> HKU BSE
  >> HKU ME

Associated Websites:
* Web Links on Sustainable Buildings
* References on Sustainable Buildings

Created: Sep 2004 | Updated: 2 May 2005 | By: smhald@hku.hk

010440 Visitors since 18 Sep 2006
**Web Links on Sustainable Buildings**

**Introduction**
This website is developed with the aim to promote sustainable design and planning of buildings. Key information is collected from various resources and organized in a systematic way for efficient study and exploration of the subjects.

The website will be maintained and updated regularly. Comments and suggestions may be sent to us by email.

**Search Tools**
The following tools are useful for searching related information and literature. As the information on the internet is very dynamic and may change quite frequently, it will be helpful to use these tools to identify the current sources of information and any broken links.

- Google
- Google Scholar
- Yahoo
- AltaVista
- ScienceDirect

**Associated Websites**
- Case Studies on Sustainable Buildings
- References on Sustainable Buildings

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**References on Sustainable Buildings**

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The materials are organized in a systematic way for easy understanding and searching.

**Strategies**
- General
- Site/Communities
- Energy
- Water
- Materials/Waste
- Indoor Environment

**Process**
- Design
- Construction
- Operation

**Evaluation**
- Assessment
- Building Types
- Case Studies/Examples

**Others**
- Audio/Visual Materials
- Journals/Magazines

The website will be maintained and updated regularly. Comments and suggestions may be sent to us by email.

**Related Tools**
The following tools are useful for searching related information and literature in the libraries.

- Dragon: HKU Library catalogue system
- Libraries in Hong Kong and overseas
  - Multiple Search for Libraries in Hong Kong via Z39.50

**Associated Websites**
- Case Studies on Sustainable Buildings
- Web Links on Sustainable Buildings