

Green Library

Green Library

- According to online Dictionary of Library and Information Science : A Library designed to minimize negative impact on the natural environment and maximize indoor environment quality by means of careful site selection, use of natural construction materials and biodegradable products, conservation of resources (water, energy, paper, responsible waste , disposal, recycling etc).

- A green library may be a library that uses latest and cutting edge technology in designing a library building and providing services to its users in eco friendly environment. Concept "Green Libraries" emerged in the early 1990s.

Necessity for Green Libraries

- Global surface temperature is rising day by day.
- To control the pollution and green house gases in environment.
- To play a greater role in becoming the planet green.
- To work for the betterment of mankind.
- To establish a new image of the library in the modern world.

Why green library ?

- Not required high budget
- Low energy wastage
- Low maintenance
- User friendly and healthy environment
- Higher usability of resources
- Natural day light
- Comfort zone for both staff and user
- Role in conserving environment
- Providing environment friendly and
- Sustainable library services to the users

- A green library is designed to minimize negative impact on the natural environment and maximize indoor environmental quality by means of careful site selection, use of natural construction materials and biodegradable products, conservation of resources and responsible waste disposal .

Elements for green library

- Support of administration
- Both daylight and artificial light
- Use of renewable material like wood and bamboo
- Green roof
- Natural ventilation
- Quality of indoor environment
- Raised floor system

- USGBC defined the five different categories to judge a building sustainability. Site location, Water conservation, Energy efficiency, Materials, Indoor air quality and a bonus category for innovation and design.

• Site selection

- selection of the site has a large impact on how ecologically friendly the library will be
- the library should be located in a densely populated area, near a number of other service related buildings
- People should be able to reach the building via public transportation.

Energy conservation

- To maximize energy efficiency libraries are combining passive and active strategies
- Active strategies are more technologically advanced solutions
- Photovoltaic panels for utilizing renewable energy Water conservation strategies can be used to capture rainwater runoff to be used in irrigation .

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Role of Librarian

- Now we called as eco-librarian to handle the budgets to support the organizations
- Selection is about building up collections on environmental issues (green computing, organic gardening, energy conservation, etc.)
- De-selection is weeding of outdated or worn library materials. Green de-selection is about recycling and reusing weeded materials
- Publishers today participate in Green Print Initiative by using recycled paper and harvesting fewer trees.

- Sharing resources(cloud computing)
 - Reduce the Environmental impact of ICT
- A typical computer running for a day (24 hours) creates 494 kg CO₂, 10MB of data produce 2-1/2 kilos of CO₂, a Google search causes between 1g-10g (gram) CO₂ emissions depending on the time involved.
- Environmental guide and work methods that motivate people to participate.
 - Employee must be supported by an environmental training.

- Green library building standard
- USGBC Standard: The United States Green Building Council (USGBC), a non-profit organization from the United States developed LEED rating system in 2000. It stands for Leadership in Energy and Environmental Design (LEED), an ecology-oriented building certification program which judge building's sustainability and certify them as Silver, Gold or platinum.

- Innovation and design process
- IGBC Indian Green Building Council (IGBC) was formed by Confederation of Indian Industry (CII) in 2001.
- Indoor air quality
- Material and Resources
- Energy Efficiency
- Water Conservation
- Site Location LEED(Leadership in Energy and Environmental Design) an ecology-oriented building certification program which judge building's sustainability and certify them as Silver, Gold or platinum depending on 6 major components

Under LEED Buildings can qualify for four levels of certification:

- Points Certificate:
- 40-49 Certified
- 50-59 Silver
- 60-79 Gold
- 80+ Platinum

Problems for green libraries

- Reconstruction
- Lack of awareness on green technology
- Administrative
- Some useful websites for green library
<http://www.greenlibraries.org/>
<http://www.ifla.org/node/10159> <https://igbc.in/igbc/>
<http://www.usgbc.org/> <http://www.usgbc.org/>

Some Green Library Buildings in the World

- National Library, Singapore
- Public Library of Charlotte and Mecklenburg County
- Children's Museum of Pittsburgh • University of California, Merced Kolligian Library • Minneapolis Public Library • Council Tree Library, Fort Collins, Co.
- Candler Library, Emory University, Atlanta, GA
- Dexter Library, Ashland
- Eden Prairie Library, Eden Prairie.
- Harperwoods Public Library
- Kilton Public Library, West Lebanon
- Osining Public Library, New York

Some Green Library Buildings in India

- Anna-Centenary Library, Chennai
- Perma Karpo Library, Ladakh
- National Library of India, Kolkata
- Karnataka University Library
- NIT, Library Silchar Assam, India
- NIT Trichy – Library
- Delhi University Library
- Calcutta University Library
- Madras University Library
- Mumbai University Library

IFLA GREEN LIBRARY AWARD 2017

- The IFLA Green Library Award was established 2016 by ENSULIB (SIG) and generously sponsored by De Gruyter publishing. The award is 500 Euros for the first place winner.

Role of ALA for green library

- 1999-2000 ALA president Sarah Ann Long initiated a project, in cooperation with Global Learning of New Jersey, entitled "Libraries Build Sustainable Communities."
- Sustainability Round Table - established at the 2013 Midwinter Meeting, with a stated purpose to provide: 1. A forum for ALA members to exchange ideas and concerns regarding sustainability in order to move toward a more equitable, healthy, and economically viable society. 2. Resources for the library community to support sustainability through curriculum development, collections, exhibits, events, advocacy, communication, and library buildings and space design.

The End