



GreenHabitat

"A newsletter on Green Buildings"

From Indian Green Building Council, CII-Sohrabji Godrej Green Business Centre



First Platinum rated IGBC Green Home in India

The 'Avani Residence' located in Hyderabad is an individual home project with an area of 5,000 sq.ft. This home has achieved the prestigious Platinum rating under the IGBC Green Homes Rating System.

Some of the green features incorporated in the residence are as follows:

Water Saving Features:

- A sewage treatment plant of 5,000 liters/day capacity to treat all grey water generated within the site has been provided. The treated grey water is reused for flushing and landscaping
- Low flow water fixtures (showers, faucets and flush systems) have been provided



Avani Residence, Hyderabad

Energy Saving Features:

- The building envelope is insulated with the use of fly ash blocks for walls, under deck roof insulation and double glazed low-E glass with low 'U' and 'SHGC' values for all air conditioned areas
- High efficiency HVAC equipment with heat recovery wheel has been provided
- Bureau of Energy Efficiency (BEE) Star rated lamps and motion sensors for lighting have also been provided
- 3.84 kWp Hybrid Solar PV system which generates 10 kWh/day and Solar Water Heater of 300 LPD (Litres Per Day) capacity has been installed

Materials:

- Bamboo, which is a rapidly renewable material has been extensively used in the flooring
- Wood salvaged from old buildings has been used for doors and windows

Day Lighting:

- Sufficient windows and skylight areas have been provided to achieve the daylight factor of 2% for 80% of the regularly occupied spaces
- Light pipes have been used to achieve daylight in the basement areas

India's greenest commercial building in Chennai

Turbo Energy Limited's (TEL) 'R&D and Administration Block', at Paiyanur, Chennai achieved the highest points (62) out of a total of 69 points, under the Leadership in Energy and Environmental Design - New Construction (LEED - NC v2.2) green building rating system of the US Green Building Council (USGBC).

The green certification of the project was facilitated by CII-Sohrabji Godrej Green Business Centre, Hyderabad.

Turbo Energy Limited building now becomes India's greenest Platinum rated building and also the second greenest building in the world. 'Dockside Green' Project Phase I – Synergy project in British Columbia, Canada with 63 credit points is the greenest building in the world.

Turbo Energy building is an office space with a built-up area of 37,362 sq.ft (3,470 sq.mtrs). The salient green features of the building are:

- The whole building is 100% solar air-conditioned through the Vapour Absorption System
- In-situ wind turbine of 5 kW capacity
- Rs 40 lakhs worth of old furniture was re-processed & re-used in the building
- 70% of energy savings over ASHRAE 90.1-2004 standard
- Zero water discharge site
- More than 75% of the spaces with good daylight



Turbo Energy Limited (TEL)
R&D and Administration Block at Chennai

IGBC local chapter activities

Five Indian Green Building Council (IGBC) local chapter meetings were held from February 2009 to April 2009.

IGBC local chapters aim to facilitate faster and deeper penetration of green building concepts to the key stakeholders and provide a platform for networking & cooperation at the regional level. The chapters would also interact with the Government and Urban Development Agencies to facilitate adoption of green buildings.

The chapter meetings discussed the following:

- Means to advance the green building movement
- Strategies to facilitate adoption of green buildings
- Ways to promote chapter membership
- Strategies to involve all the key stakeholders
- Need to involve more of the architecture community
- Conduct more training programmes on green building rating system, energy conservation technology and labelling



Mr Lalit Kumar Jain, Chairman, IGBC - Pune Chapter delivering the welcome address at the chapter meeting on 12 February 2009. Also seen are Mr S Srinivas, Principal Counsellor, CII-Godrej GBC & Mr S Raghupathy, Senior Director & Head, CII-Godrej GBC



Delegates at the IGBC Delhi Chapter meeting held on 27 February 2009



Delegates at the IGBC Ahmedabad Chapter meeting held on 12 March 2009



Delegates at the IGBC Mumbai Chapter meeting held on 23 March 2009



Ar C N Raghavendran, Chairman, IGBC - Chennai Chapter speaking at the Chennai Chapter meeting held on 22 April 2009

Chapter Scorecard

Chapter	No. of green building projects registered	No. of IGBC members
Bengaluru	24	60
Chennai	48	66
Delhi	46	117
Mumbai	67	126
Kolkata	19	32
Hyderabad	32	41
Ahmedabad	6	38
Pune	16	43
Kochi	6	36

7th Edition

Green Building Congress 2009

India's Flagship event on Green Buildings

International Conference & Exhibition on Green Buildings
9 - 12 September 2009
HICC, Hyderabad, India

Green Building Congress 2009

The 7th edition of Green Building Congress is slated to be held from 09 - 12 September 2009 at HICC, Hyderabad, with the theme: 'Affordable Green Buildings'.

Affordable Green Buildings

This year's congress will chalk out a road map to make green buildings affordable for all. Today, green buildings in India are being designed at an incremental cost of 6-8%.

Though the initial investment is slightly higher, the benefits experienced by green buildings are tremendous, with substantial reduction in operational costs. The pay back period for the incremental cost is between three and four years.

In fact, IGBC Green homes can be designed with only architectural interventions and good design, without any significant additional cost.

IGBC has adopted the following multi-pronged strategy to address the increased costs in the construction of green buildings:

- Facilitate development of low cost green building materials and equipment
- Enhancing the capacity of green building professionals
- Development of new rating systems
- Incentivisation through Central & State Governments
- Involvement of Banks & Financial Institutions

Event Schedule:

Event date	Programme
9 th September, Wednesday	Training Programme on Green Homes Green Building Mission
10 th September, Thursday	International Conference and Exhibition
11 th September, Friday	International Conference and Exhibition
12 th September, Saturday	Seminar on Green Homes Training Programme on Green Buildings for New Construction Green Building Mission

IGBC Green Design Competition

The annual IGBC Green Design Competition conducted in association with the Indian Institute of Architects aims to motivate and educate students of architecture and design on sustainable solutions for our built environment and to evolve an architectural vocabulary that helps maintain ecological balance. The competition is co-sponsored by Blue Star Ltd. For registration, please visit : www.ethosindia.in/igbc/index.html

Green - I Contest for School Students

The Green-I contest, an initiative of Young Indians (Yi) is supported by the Indian Green Building Council (IGBC) and Carrier Aircon, aims to create the much needed awareness on environmental responsibility to the school children and future generation of India.

The intent of the contest is to encourage students to think about conservation and sustainability measures that can be incorporated within their school/community.

For more on the contest, please contact:

P Theja / Vidya S : p.theja@cii.in / vidya.s@cii.in



Students of Kola Perumal Chetty Vaishnav Sr Sec. School, Chennai, **winner of the Green - I contest-2008** seen with Mr Zubin Irani, Managing Director, Carrier Air Conditioning & Refrigeration Ltd, Mr Niranjan Hiranandani, Managing Director, Hiranandani Group and Dr Prem C Jain, Chairman, IGBC

The following are the major objectives of Green Building Congress 2009:

- Expose the participants to the latest trends in green buildings
- Train building professionals on green building concepts
- Showcase green building products and technologies
- Facilitate market transformation
- Provide opportunities for networking and information sharing amongst all the stakeholders

For further details on:

Conference

Bhaskaran Sriram: M: +91 99890 91744, sriram.bhaskar@cii.in

Exhibition

V Srinivas Reddy: M: +91 99890 91743, v.srinivasreddy@cii.in

Training Programme & Green Building Mission

B Senthil Kumar: M: +91 99890 91742, senthilkumar.b@cii.in

SBI goes green with its home loans

In a major boost to promote the IGBC Green Home Projects in India, State Bank of India, country's largest bank, is now offering concessions to developers & owners constructing green homes.

The key offerings under the scheme include:

- Up front margin will be lower at 15 % of the loan amount, instead of the normal 20 %
- Interest rate on the loan will be 25 basis points lower than the card rate
- No processing fee will be charged

IGBC Green Homes is the first rating programme developed in India, exclusively for the residential sector. It is based on accepted energy and environmental principles and strikes a balance between known established practices and emerging concepts.



Aliens Space Station - 1, Hyderabad
Precertified Platinum



Mahindra Splendour, Mumbai
Precertified Platinum



Palais Royale, Mumbai
Precertified Platinum

DWELLING ON ECO THEME

SBI goes 'green' with its home loans

K Ram Kumar

Mumbai, March 26

State Bank of India has introduced a new home loan product that will make other banks go green with envy.

By launching 'Green Homes', the country's largest bank wants to support rated environment friendly residential projects by offering concessions - reduced margin, softer interest rate, and zero processing fee - on home loans to discerning buyers.

In case you are planning to buy a house with a loan from SBI in an environment friendly residential project, which has been rated by the Indian Green Building Council (IGBC), then the bank is willing to woo you with concessions.

The concessions: the upfront margin that you will have to stump up will be lower at 15 per cent of the loan amount instead of the normal 20 per cent; interest rate on the loan will be 25 basis points lower than the card rate; and no processing fee will be charged.

A 'Green Building/ Home', according to the IGBC, is one that uses less energy, water and natural resources, creates less



A 'green' concept

waste and is healthier for the people living inside compared to a standard building. The council is a part of the Confederation of Indian Industry - Sohrabji Godrej Green Business Centre. "As part of our endeavour to promote rated eco-friendly residential projects, we have announced easy loan terms for prospective home buyers. Our move will also encourage builders to come up with such projects," said a senior SBI official.

The bank, which introduced the 'Green Homes' product a couple of months back, is currently supporting 'green' residential projects by Tata Housing and Mahindra's. "Today, home buyers are ready to shell

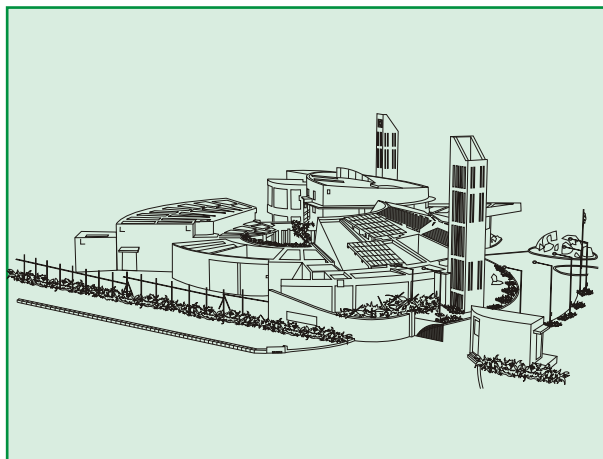
out extra money towards amenities such as swimming pool, club house and joggers' park. Frankly, these are only 'theoretical' benefits which a majority of the residents hardly use. In the case of eco-friendly homes, owners will actually realise tangible as well as intangible benefits.

Hence, buyers should shed their reluctance to pay that extra, which can be recouped in 2 to 3 years, for buying a house in an eco-friendly project as they stand to gain via savings in terms of energy and water," the official said.

Owners of 'green homes' can hope to reap tangible benefits in the form of 20-30 per cent energy savings as the apartments are designed in such a manner that they can enjoy ample natural light throughout the day.

The construction material used in such homes ensures adequate thermal storage mass for retaining heat energy thereby keeping the interiors cool despite the heat outside.

Further, water savings, anywhere between 30 and 50 per cent, can be made on account of rain-water harvesting and recycling.



Confederation of Indian Industry
CII-Sohrabji Godrej Green Business Centre

For more on LEED India & IGBC Green Homes registration and green building services, kindly contact:

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