



## CASE STUDY: BANK OF AMERICA



### KEY PARAMETERS

<b>Occupancy Type</b>	Office Space
<b>Built up area</b>	21583 Sq ft
<b>Completed</b>	August 2011
<b>Location</b>	Chennai
<b>Green consultant</b>	En3 Sustainability Solutions
<b>Rating System</b>	LEED ID+C
<b>Rating Achieved</b>	GOLD

### LEED SCORES



The Bank of America Office space in Chennai has been awarded Gold certification under USGBC's LEED ID+C rating system. The project is a classic illustration of how even when the base building is not green, the commercial interior can incorporate various green measures within their space and achieve maximum energy and water savings and achieve the desired LEED ID+C Gold Rating from U.S. Green Building Council.



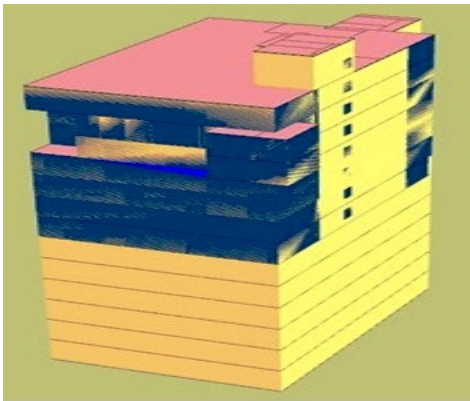
### *SITE SUSTAINABILITY FEATURES*

- The base building of the project is certified to LEED Core and Shell
- The project is located within half a mile of basic community services and a minimum of one residential district with a minimum density of 10 units per acre.
- The project is located in an ideal location with close proximity to public transportation thereby minimizing transportation pollution and strain on local infrastructure, protects green-field site and preserve habitat and natural resources.

### *WATER EFFICIENCY*

- Low flow dual-flush toilets, sensor based urinals and other low flow fixtures installed have resulted in potable water reduction of water use of **43.38%**.

### *ENERGISING THE BUILDING*



- Provision of high performance glazing, energy efficient HVAC design and lighting has contributed to energy savings of about 18% over conventional building and HVAC systems.
- Selection of CFC free and HCFC free refrigerants avoids global warming and ozone depletion.
- Light fixtures and efficient lighting design contribute to 26% of reduction in connected lighting power density over the base case of ASHRAE standards.
- ENERGY STAR-rated equipment and appliances equal to 91%, by rated power, have been installed on the project.
- Sub-metering equipment has been installed for lighting systems, plug loads, electric heating, electric cooling, and electric process uses.

### *RESOURCE MANAGEMENT*

- The project has diverted 76.9% of the on-site generated construction waste from landfill.
- 26.8% of the total building materials, by value, have been manufactured using recycled materials.
- 20.86% of the total building materials value includes building materials and products that have been manufactured within 500 miles of the project site and 20.16% of the total building materials value including building materials and products that have been extracted within 500 miles of the project site.
- 5.1% of the total building materials value includes building materials and products that are from rapidly renewable sources.
- Use of materials with recycled content and materials manufactured locally/regionally as much as possible to reduce virgin material exploitation



## *INDOOR ENVIRONMENTAL QUALITY*



- Better air quality and additional fresh air by 30% have been provided for enhanced indoor environment
- Low emitting adhesives, paints, carpets and composite wood products have been used to enhance the indoor environment and provide superior workplace for all employees.
- All system seating and furniture used in the project reduce indoor air contaminants that are odorous, potentially irritating and/or harmful to the comfort and well-being of installers and occupants
- Mechanically ventilated and mechanically conditioned project space is in compliance with ASHRAE 55-2004. A permanent monitoring system and process for corrective action are in place to ensure performance to the desired thermal comfort criteria

## *NOVELTIES*

This project is really an excellent example of true sustainable development from design stage until execution and shall definitely become a benchmark for future projects to emulate.

En3 would be glad to answer any queries or questions you have on any green or sustainability related topics. Feel free to contact us at [info@en3online.com](mailto:info@en3online.com) and for more information visit us at [www.en3online.com](http://www.en3online.com).