



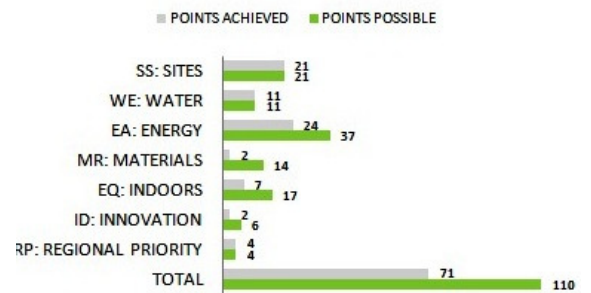
CASE STUDY: Thomson Reuters



KEY PARAMETERS

Occupancy Type	Office Space
Built up area	3,71,902 Sq ft
Completed	July 2014
Location	Bangalore
Green consultant	En3 Sustainability Solutions
Rating System	LEED USGBC ID+C
Rating Achieved	GOLD

LEED SCORES



The Thomson Reuters Office space in Bangalore has been awarded Gold certification under USGBC’s LEED ID+C rating system. The building has many unique distinctions to its credit including achieving exemplary performance in water savings.



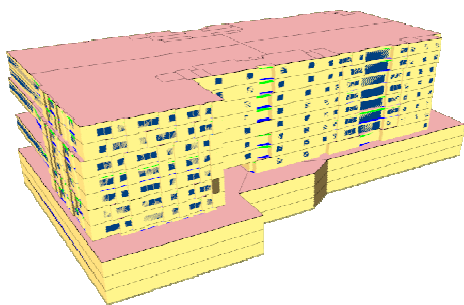
SITE SUSTAINABILITY FEATURES

- The project is in 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.
- Provision of Bicycle and Shower facility for their staff reduces pollution and land development impacts from automobile use.
- 79% of the base building on-site parking is located underground or under cover.
- Base building landscaping and irrigation systems have been designed to reduce potable water consumption for irrigation by 63% from a calculated baseline case.
- Carpooling spaces within the premises in an effort to promote and ride sharing to reduce transportation pollution as well as strain on the local infrastructure.
- The project provides alternative-fuel fueling stations for 3.92% of the total parking capacity

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 **41.9%**.
- The base building landscaping and irrigation systems have been designed to reduce potable water consumption for irrigation by 100% from a calculated baseline case.
- 100% of wastewater on-site to tertiary standard which is then reused on-site

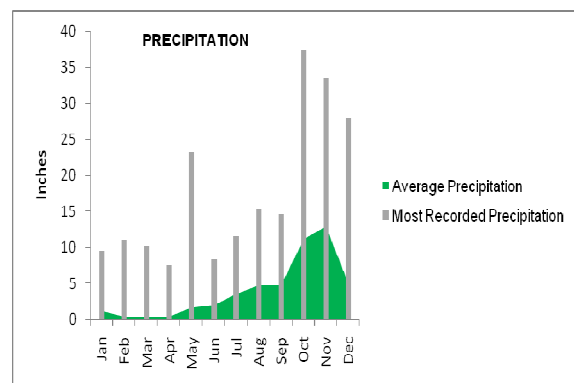
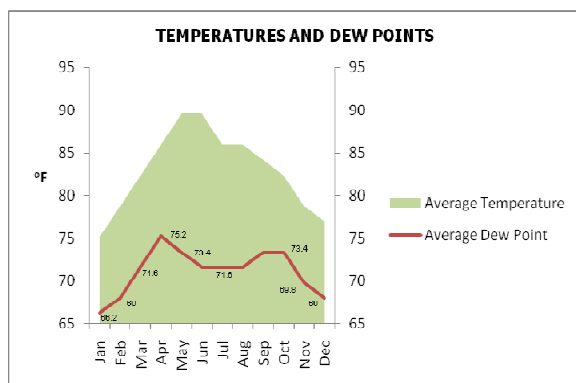
ENERGISING THE BUILDING



- Provision of high performance glazing, energy efficient HVAC design and lighting has contributed to energy savings of about **19.65%** 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 **40.08%** of reduction in connected lighting power density over the base case of ASHRAE standards.
- Daylight responsive controls have been installed in 100% of all regularly occupied spaces within 15 feet of windows or under

skylights.

■ ENERGY STAR-rated equipment and appliances equal to **96.45%**, by rated power, have been installed on the project. Metering equipments have been installed for monitoring the energy use in the building such as EB and DG energy monitoring. Submetering equipment is installed to measure and record energy uses within the tenant space. Submetering equipment has been installed for lighting systems, plug loads, electric heating, chilled water cooling, and electric process uses.





RESOURCE MANAGEMENT

- The project has diverted 83.96% of the on-site generated construction waste from landfill.

INDOOR ENVIRONMENTAL QUALITY



- Better air quality and additional fresh air by 30% have been provided for enhanced indoor environment
- The project conducted a flush-out prior to occupancy by supplying while maintaining an internal temperature of at least 60 degrees F and relative humidity no higher than 60%
- Low emitting adhesives, paints, and composite wood products have been used to enhance the indoor environment and provide superior workplace for all employees.

NOVELTIES

The building has achieved exemplary performance in energy savings by reducing lighting power by more than 40 %.

The 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 and for more information visit us at www.en3online.com.