



UN House

Location	: New Delhi
Site Area	: 7,568 m ²
Built-up Area	: 4,919 m ²
Energy Consumption Reduction	: 42.98% reduction in the energy consumption compared to GRIHA benchmark
GRIHA EB Rating	: 4 Star Rating (Version 1)
Year of Completion	: 2002

The following strategies were adopted to reduce the building impact on the natural environment:

📍 Site Parameters:

- Dedicate e-charging points and bicycle parking was provided onsite.
- 59.20% of the total site area has been shaded to reduce the urban heat island effect through the use of soft paving, trees and solar panels.

🔧 Maintenance & Housekeeping:

- Low ODP materials were used in refrigeration insulation and firefighting equipment.
- Environment friendly housekeeping and pest control chemicals were used in the project.
- Multi-coloured bins were used for segregation at the building as well as the site level.
- Meters and sub-meters have been installed to monitor the energy and water consumption from the project.

💧 Water Efficiency:

- Reduction of 30.12% from the GRIHA base case has been demonstrated in building water demand by installing water efficient fixtures.
- Two rainwater harvesting pits were constructed to cater to 100% of the run-off coming from roof.

⚡ Energy:

- 42.98% reduction in energy consumption over the GRIHA base case.
- Rooftop solar photovoltaic system of capacity 119.37 kWp is installed on the site which is offsetting 29.39% of annual energy consumption of the project

👤 Human Health & Comfort:

- No smoking warnings and signages were put in several places at the site.
- 26.5% of all the living area has adequate daylight as prescribed in SP41.
- More than 80% of the area is meeting the thermal comfort requirements of NBC.
- Test reports were submitted to demonstrate that the indoor air quality meets the NAAQS standards
- ASHRAE 62.1 was followed to meet minimum fresh air requirements for indoor ventilation.as only.

Integrated Design Team:

Client	: UNDP
Operation & maintenance	: Ford Foundation
Green Building Design and Certification	: Integrative Design Solution