

Higher energy efficiency design features in existing and new buildings

Construction during 2022

Existence of plans

Shoolini University has already identified and planned to upgrade existing buildings to higher energy-efficient buildings. The following designs have already been planned and their status in 2022 is given as follows:

1. Design & Construction of 5 Solar huts using traditional materials (Status: **Completed**)
2. Design of International Hostel with Energy Efficient features (Status: **Completed**)
3. Redesigned and constructed Boys Hostel building for improving Insulation for thermal comfort (Status: **Completed**)
4. Retrofitting of Academic offices for thermal comfort improvement during summers & and winters (Status: **In progress**)
5. Design & construction of Energy efficient Yogananda Meditation Centre (Status: **In progress**)
6. Retrofitting of Staff Residences for improving thermal comfort with space heating and ventilation systems (Status: **In progress**)

Energy Efficiency Measures continued: Undertaken during 2022

Under the mandatory Net Zero Energy and Passive Solar Housing Policy, the university has developed a Yoga Nanda Ville with a number of solar huts on the campus using sustainable building materials like wood, bamboo, slate, stone, mud, stabilized mud blocks etc. shown in figures 22 to 28. Several new buildings including the Tagore School of Design Building have been constructed using sustainable materials and minimal carbon footprint.



New Design School Building constructed using sustainable materials at Shoolini University.



The interiors of the green buildings at Shoolini University are also made of natural and sustainable materials for maximizing eco-friendliness. Ample windows are constructed for natural daylighting and minimal use of artificial lighting during the day. All lights used are energy-efficient LED lights.



Side view of School of Design Sustainable Building