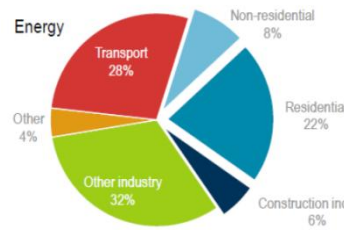


SUSTAINABILITY SERVICES

CONSCIOUS OCCUPANTS = SUSTAINABLE BUILDINGS

In recent years sustainable buildings are designed globally to reduce the impact they have on the environment and minimize the use of available resources. At the design stage the all the best strategies are considered like shading devices, daylight, heat gain etc. An Integrated approach is followed and all stakeholders are active participants who take decisions on the implementation of these strategies. However, the occupants are never considered as the active participants. Not all sustainable buildings are entirely successful after they are operational. This is because the impact of occupant behavior is usually not considered during the design phase or the post-occupancy optimization phase.

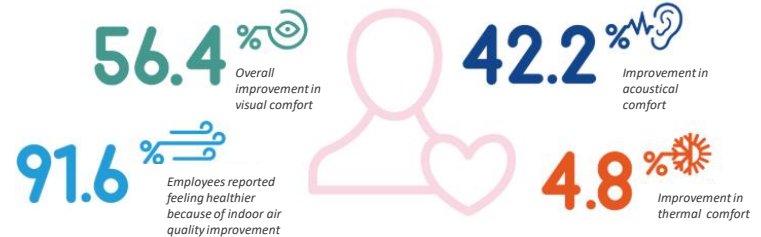


Resource: Adapted from IEA (2019a), World Energy Statistics and Balances (database),

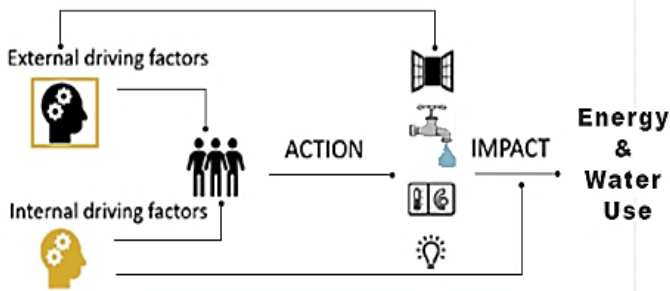


Buildings account for 35 percent of INDIA's energy consumption.

Resource: Model for Adaptive Comfort (IMAC). Build. Environ. 2016,98, 55-70. doi:10.1016/j.buildenv.2015.12.019.



Indeed, changes in the occupant behavior can increase the efficiency of the building in the operational stage. Lasting behavior changes are difficult to achieve, but new ways to foster pro-environmental behaviors must be introduced in all the sustainable buildings from the design stage itself.



Passive Instructions

Graphical Posters explaining the working and advantages of green building design measures implemented in the building.

Graphical signage's showing switch of lights, save water, recycle waste etc.

Comparative real time monitoring showing the energy consumption for occupational groups

Timely e-mails to occupants on saving water, appropriate use of waste bins, turning of PCs, switching off lights, switching monitors to sleep mode during break time

Active Instructions

Eco-feedback: It is giving information on historical and current energy and water consumption

Comparative Eco-feedback: A normative comparison (user ranking) component allows users to compare their energy usage with their peers and neighbors

Gamification: Facility Management in green buildings can arrange for software based games in which the occupants can participate and earn rewards for implementing the desired behavior



At Ecofirst as a part of Sustainable Integrated Design (SID) offering we ensure that we incorporate performance metrics in energy, water, waste & carbon through early stages of design in order to reap benefits during post occupancy life cycle of the project.