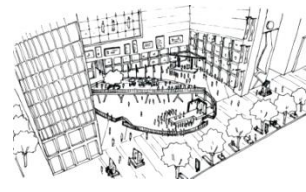
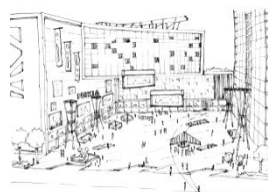




Srujan Research and Planning Foundation

Green Hospitals



Urban Design | Urban Planning | Regional Planning | Environmental
Planning | Township Planning | Green Building Certification and EIA

Green Hospital

What is Green Hospital ?

A Green Hospital is one which enhances patient well-being, aids in curative process while utilizing natural resources in an efficient environment friendly manner.

Components of Green Hospital and Efficient Systems



Energy

- 1) Improving Energy Efficiency and Conservation
- 2) Energy Audit: Assessment of energy quality and needs.

- Solar PV panels
- Solar hot water system
- Biogas Plant



Water

- 1) Improving Water Efficiency and Conservation
- 2) Water Audit: Assessment of quality and amount of water.

- Rain water harvesting
- Waste water treatment plant



Waste

- 1) Biomedical Waste Management
- 2) Solid Waste Management

- Collection, Handling and Segregation of Biomedical and Solid Waste

Benefits of Green Hospital

Lower **energy consumption** without sacrificing the comfort levels

Reduces **water consumption**

Limited **waste generation** due to recycling and reuse

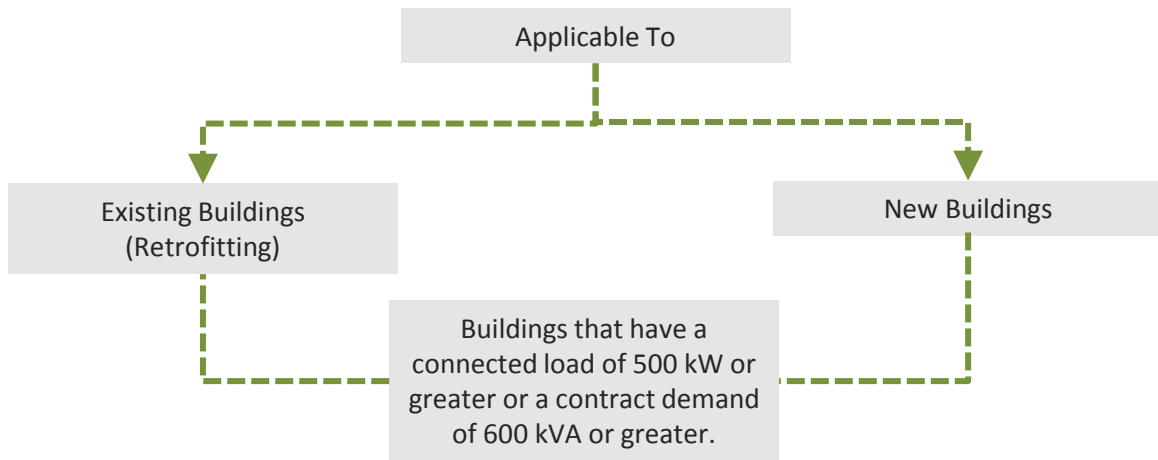
Reduces long-term operating costs of a building

Increases **indoor air quality and occupant comfort**

Reduces **greenhouse gas emissions**, thus helping fight climate change

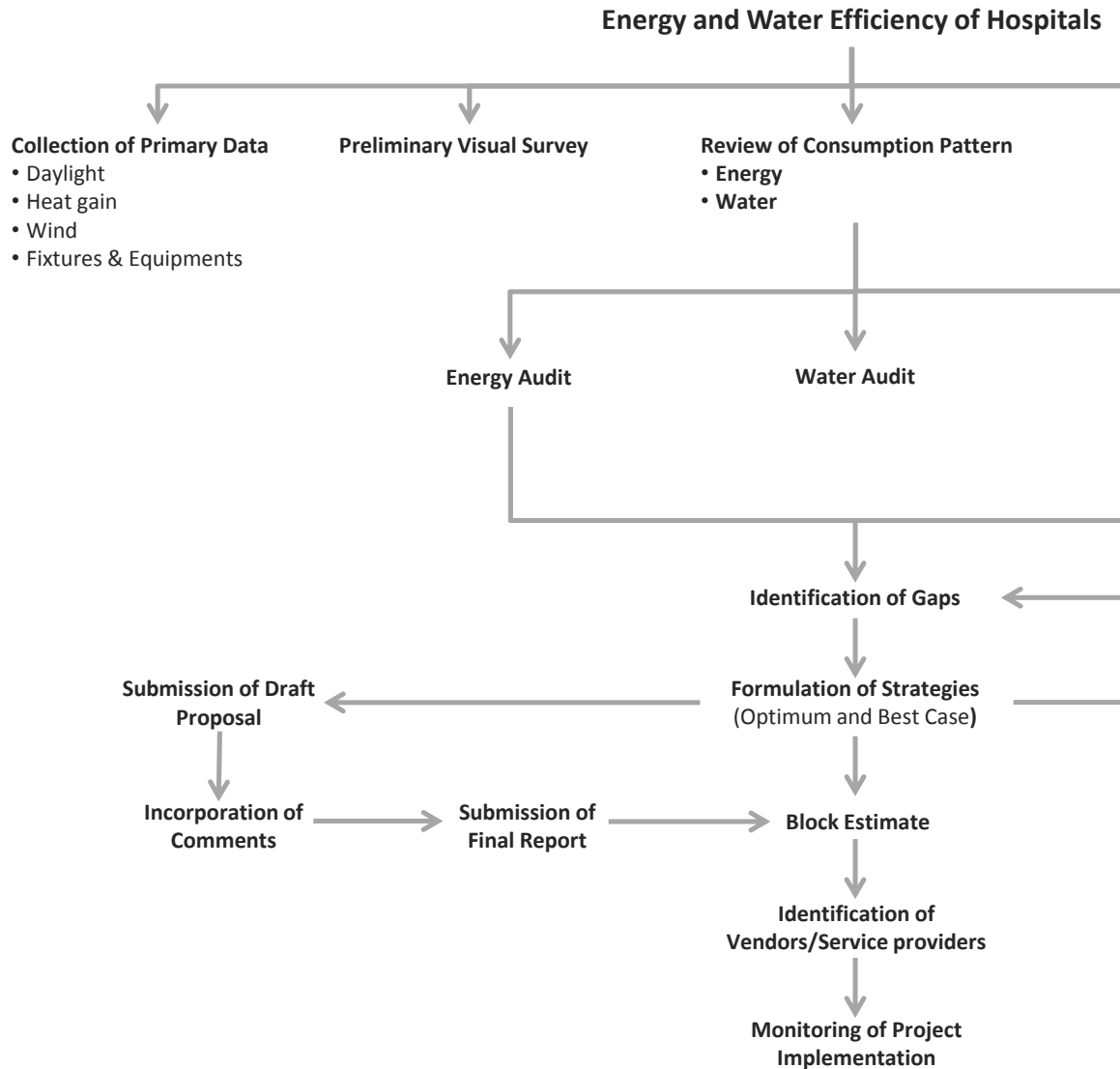
Energy Conservation Building Code (ECBC)

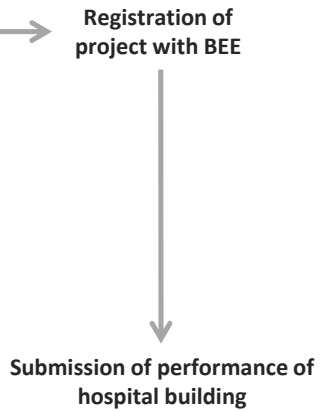
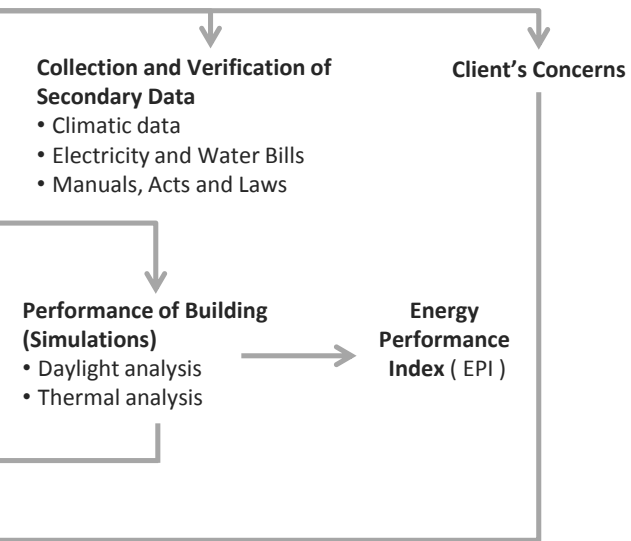
The ECBC compliant building can use 40% to 60% less energy than conventional buildings.



ECBC is one of the green rating systems, launched by Ministry of Power in 2007 and set by Bureau of Energy Efficiency (BEE).

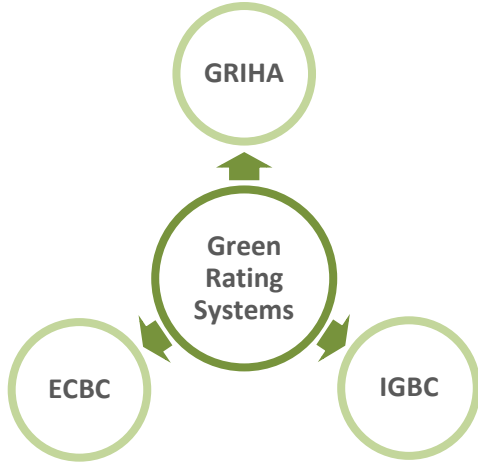
Stages of Retrofitting Existing Hospitals into Green Hospitals





Other Green Rating System

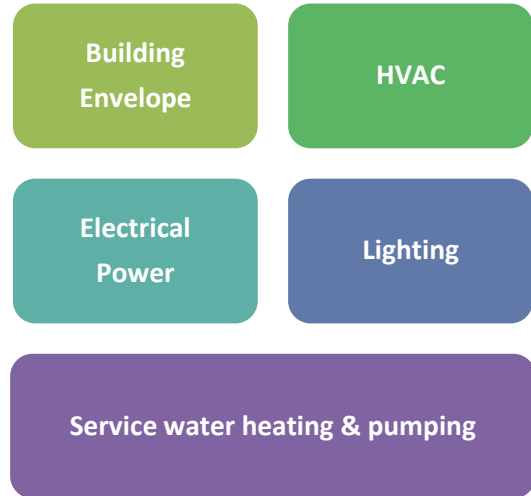
Overview of green building systems in India



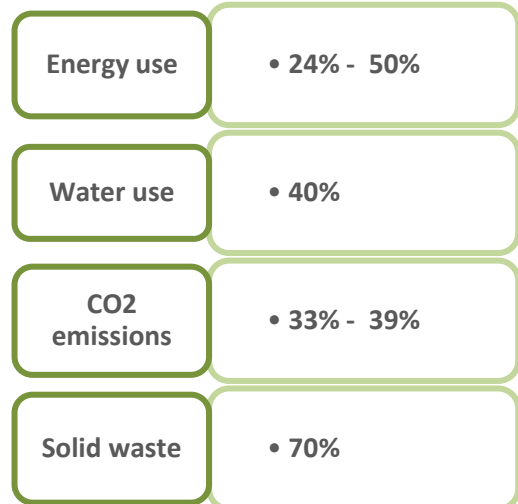
Criteria for GRIHA & IGBC



Criteria for ECBC



Green Building can reduce:



1

Energy Conservation:

Installation of **solar hot water system, solar PV on rooftops**, will help to reduce energy consumption.

The waste from the canteen can be used for **Biogas plant**.

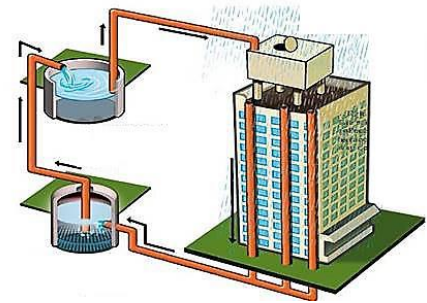


2

Water Conservation:

Reduce water consumption and save about 40% of the potable water by using flow control / green fixtures.

Green initiatives like **rain water harvesting, efficient treatment plant** can also be used to conserve water.



3

Biomedical Waste Management:

Handling of Biomedical waste is most crucial. Proper training for staff for handling Biomedical Waste, is essential along with its disposal.





Srujan Research and Planning Foundation

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