

Implementation of Energy Conservation Building Code (ECBC) in Urban Local Bodies of Gujarat

Project Name: Implementation of Energy Conservation Building Code (ECBC)
in Urban Local Bodies of Gujarat

Client Name: Government of Gujarat,
Gujarat Energy Development Agency
Shakti Foundation/Climate Works Foundation

Country: India

Length of assignment: Ongoing

Project Brief

The Indian Parliament passed the Energy Conservation Act 2001, in the year 2001. Energy Conservation building codes in commercial buildings with connected load of 500 KWA or more is one of the measures enlisted in the Act that deals with several other mandatory as well as promotional measures. To facilitate the implementation of the Energy Conservation Act, the Bureau of Energy Efficiency (BEE), an autonomous body under Ministry of Power was set up in 2002. Development of energy conservation building codes comes under the promotional functions assigned to BEE. BEE has developed a draft Energy Conservation Building Code titled: The Energy Conservation Building Code (ECBC) 2006. The purpose of this code is to provide minimum requirements for the energy-efficient design and construction of buildings. While the code has been recommended for all building stock, it has been proposed to make the ECBE mandatory for all new building that have a connected load of 500 kW or greater or a contract demand of 600 kVA or greater. The code is also applicable to all buildings with a conditioned floor area of 1,000 m² (10,000 ft²) or greater. Gujarat Energy Development Agency (GEDA) is the designated nodal agency by the BEE.



Detailed Description of Actual Services Provided by UMC

UMC's role is to work with select ULBs to facilitate implementation of the ECBC in these cities. This includes training and capacity building, a thorough understanding of the ULB processes, and regular handholding to ensure sustainability.

- Understand and scrutinize the existing building plan approval process and appropriately modify the formats/ guidelines/ toolkits/ codes accordingly
- In discussion with ULBs, identify projects
- Review of technical formats/ guidelines/ toolkits/ codes prepared to ensure smooth technical transfer to ULBs
- Technical capacity enhancement workshops of ULBs to assess pilot buildings using ECBC formats/ guidelines/ toolkits/ codes