

### **CEPT University:**

Centre for Environmental Planning and Technology (CEPT) was established in year 1962 with the aim of imparting training in the multi-disciplinary field of built environment, offering various undergraduate, post graduate and doctoral programs. CEPT has also been accorded the status of Scientific & Industrial Research Organization by Ministry of Science and Technology, Department of Scientific & Industrial Research, Govt. of India. In 2005 Centre for Environmental Planning & Technology became University by act of law.

### **About:**

Building Science and Energy (CARBSE) aims at providing an impetus for research in energy efficiency in built environment & energy – resource management at large. Its objective is to carry out in depth research in the fields of energy efficient buildings design, energy efficient building construction processes, environment friendly construction materials and resource audit & management.

CARBSE has been awarded a status of a “Regional Energy Efficiency Centre on building energy efficiency” by USAID ECOIII program and “Centre of Excellence” by Ministry of New and Renewable Energy, Government of India. Presently, CARBSE has a capacity to carry out component and whole building energy performance analysis through various energy simulation programs. It offers training program for energy simulation and also conduct research using these tools. CARBSE has capabilities to characterize building materials for their thermo-physical-optical properties. It is engaged in generating a robust database of building materials available in India. It also offers its commercial services to test insulation and fenestration products for their SHGC, U Value, Solar Reflectance Index and Air Leakage rates.

Establishment of these capabilities has helped CARBSE to provide support for uniform implementation of Energy code in the building sector in India, developed by the Bureau of Energy Efficiency (BEE).

CARBSE is building its own building to house building energy simulation laboratory and building energy performance testing laboratory along with facilities to conduct training and dissemination activities. It is envisaged that this demonstration building will act as living laboratory to conduct research and development in area of building energy efficiency, thermal comfort modeling, daylighting and low energy cooling technologies- Attempts have been made to make this building as Net Zero Energy Building.

### **Centre for Advanced Research in Building Science and Energy (CARBSE) is Supported by:**

Ministry of New and Renewable Energy Govt. of India

Department of Science and Technology – Indo-US Science and Technology Forum (IUSSTF) – CBERD  
Gujarat Energy Development Agency

U.S. Agency for International Development – Regional Energy Efficiency iNDEXTb (Industrial Extension Bureau) Govt. of Gujarat – Center for Green Energy & Efficiency.

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