

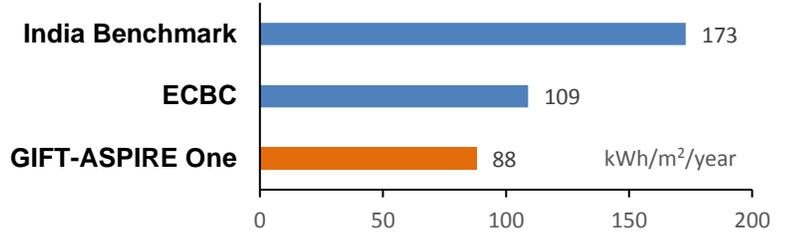


GIFT City is the first smart city in India, located between Ahmedabad and Gandhinagar in the State of Gujarat. The U.S. Department of Energy’s Pacific Northwest National Laboratory has been working with GIFT City to promote the implementation of Energy Conservation Building Code (ECBC) and document pilot buildings. GIFT-ASPIRE One is an incubation center and the first pilot building in GIFT. It saves 19% more energy than a standard ECBC building based on simulated whole-building energy performance. This document aims to highlight its exemplary features and benefits.

**Overview of Building Info**

**Location:** GIFT City, Gujarat  
**Climate:** Hot and Dry  
**Purpose:** Office Building  
**Floorspace:** 72,278 ft<sup>2</sup>  
**No. of floors:** 4

**Energy Performance Index\***



Design and Technology Highlights	Features and Benefits
<b>District Cooling Plant</b>	State-of-art infrastructure with variable frequency drives, energy efficient pumps and chillers with high COP provides unparalleled efficiency and savings
<b>Thermal Storage Tank</b>	With capacity of 10,000 cum, storage tank offers high flexibility in operation and allows shifting energy use to periods with lower utility rates. This reduces energy demand and operation costs, while protecting environment
<b>Lighting</b>	LED lighting is 90% more efficient and lasts longer than incandescent light bulbs. Combined with daylighting design, LEDs improve work productivity and visual comfort
<b>Shading</b>	Lowers solar heat gain thus reducing the overall building’s cooling demand
<b>Natural ventilation</b>	Ensures high thermal comfort and more efficient supply of fresh air, while reducing energy use for ventilation and cooling demand



World class IT infrastructure provides buildings and facilities in GIFT City with cutting-edge monitoring, control, and management systems, deployed by industry leaders such as Honeywell, Cisco, Oracle.

*“U.S. DOE and PNNL helped us and our stakeholders understand the benefits of ECBC, and their recommendations to adopt ECBC in our Development Control Regulation are a welcome move. As a smart city that always cares about energy efficiency, we are going to build more ECBC-compliant buildings following the GIFT-ASPIRE One.”*

Mr. Loveleen Garg, Assistant Vice President,  
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**For additional information**

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\* Energy Performance Index (kWh/m<sup>2</sup>/year) is the total energy consumed in a building per unit of built-up area per year. It is considered as one of most direct and commonly used indicators for building energy efficiency. Sources of data: Bureau of Energy Efficiency, ECBC Guideline and GIFT City.