



# Achieving Energy Efficiency in Heritage Building Using Integrated Design Approach

## CARBSE Lecture Series



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**Thursday**

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**Register to join the lecture at:**

<https://attendee.gotowebinar.com/register/4686420232612833803>

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The list of sustainable building attributes is countless. Repurposing old buildings reduces the need for the construction of new buildings. "The 'greenest' buildings are the ones that already exist," said Olschlager. By recycling buildings, developers/owners are preventing the landfills from being filled with construction materials. The most significant benefit of adaptive reuse and saving historic buildings we are preserving our cultural heritage, and also reducing materials reaching landfill sites.

The carefully retrofitted heritage building may achieve higher operational energy efficiency and can demonstrate economic viability. This lecture-based presents a case study. The ECOFIRST practised Sustainable and Integrated Design approach to repurposing about 100-year-old iconic office building into one of the most energy-efficient building meeting BEE 5 Star requirements and meeting ECBC Super category compliance. The case study highlights the journey from the moment the survey started to repurpose the building and all the steps taken including an advanced predictive energy modelling pathway and also covers a two-year post-occupancy evaluation carried out to extend learning further and improve operations.

Rakesh Bhatia is the Sr. Vice President at Ecofirst. He is a transformational Leader, a Team Mentor and a Sustainability Evangelist. A Mechanical Engineer with MBA, he is also an IGBC Fellow, LEED AP BD + C, GRIHA Trainer & Evaluator and RESET AP.