Learn-BPE is a two-year UK-India research project supported by the Newton Fund, that aims to undertake collaborative research and educational activities to develop new knowledge, tools, and skills amongst researchers, postgraduate students, and practitioners of engineering and architecture, to evaluate the actual performance of (green) buildings from a technical and occupant perspective. By demonstrating a positive impact of case study findings, both in terms of finding ways to improve performance and recognizing commissioning and operation practices that allow building performance to exceed design expectations, BPE can encourage a future strengthening of the relationship between the industry professionals and researchers in academia.

This workshop will share the learnings gathered in the Learn-BPE research project over the last two years, along with experiences of the researchers in the field. BPE can help to bridge the gap between simulation and reality by providing deep insights about actual building performance and how and why it differs from modelled performance. The workshop will help to understand how to close the loop between simulation and reality to meet the goal of making building more energy-efficient.

The workshop will be divided into two segments:

Segment I- Introduction to Learn-BPE project and Indian-BPE framework.  
*Introduction to the project and providing context to understand the need for BPE in India will be discussed. Methods used to carry out BPE will be discussed in brief.*

Slot II- Case studies and curriculum integration of Learn BPE in India.  
*Studies of green buildings in India will be presented with details of on-site measurements, challenges, results, analysis and findings. The curriculum integration of Learn-BPE will be discussed.*

The Centre for Advanced Research in Building Science and Energy (CARBSE) at CEPT University (Ahmedabad, India) and the Low Carbon Building Research Group (LCBRG) at Oxford Brookes University (Oxford, UK) are working together to integrate BPE into the Indian engineering and architecture curricula and practice.

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