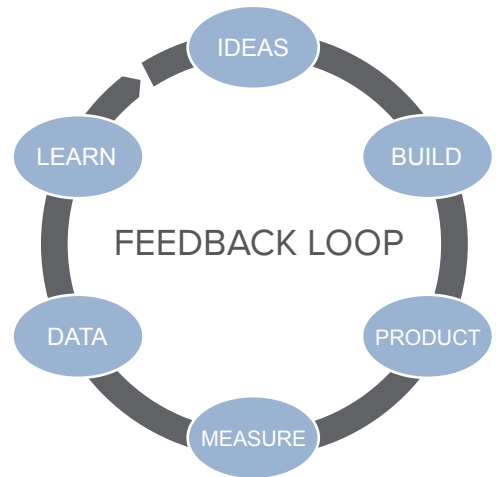


What is Building Performance Evaluation (BPE) and why should it be carried out? This guide looks at how a BPE strategy can be delivered.

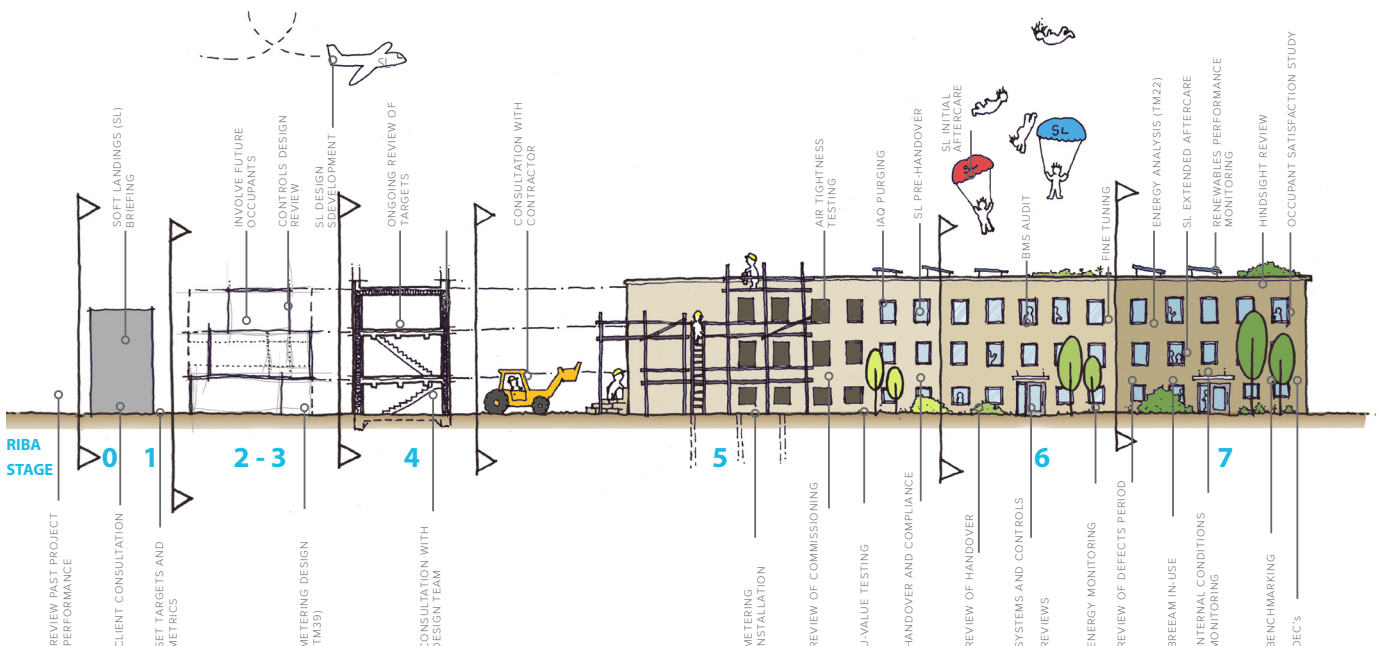
IT'S ALL ABOUT THE FEEDBACK LOOP

Building Performance Evaluation (BPE) involves the review and analysis of buildings and assessment of the extent to which a building meets its design intent, performance targets and occupant satisfaction.

The central purpose of BPE is to improve in-use performance of building and design practice. This feedback loop ensures continuous improvement across the industry, through the provision of lessons learned in operation to designers and contractors beginning new projects.



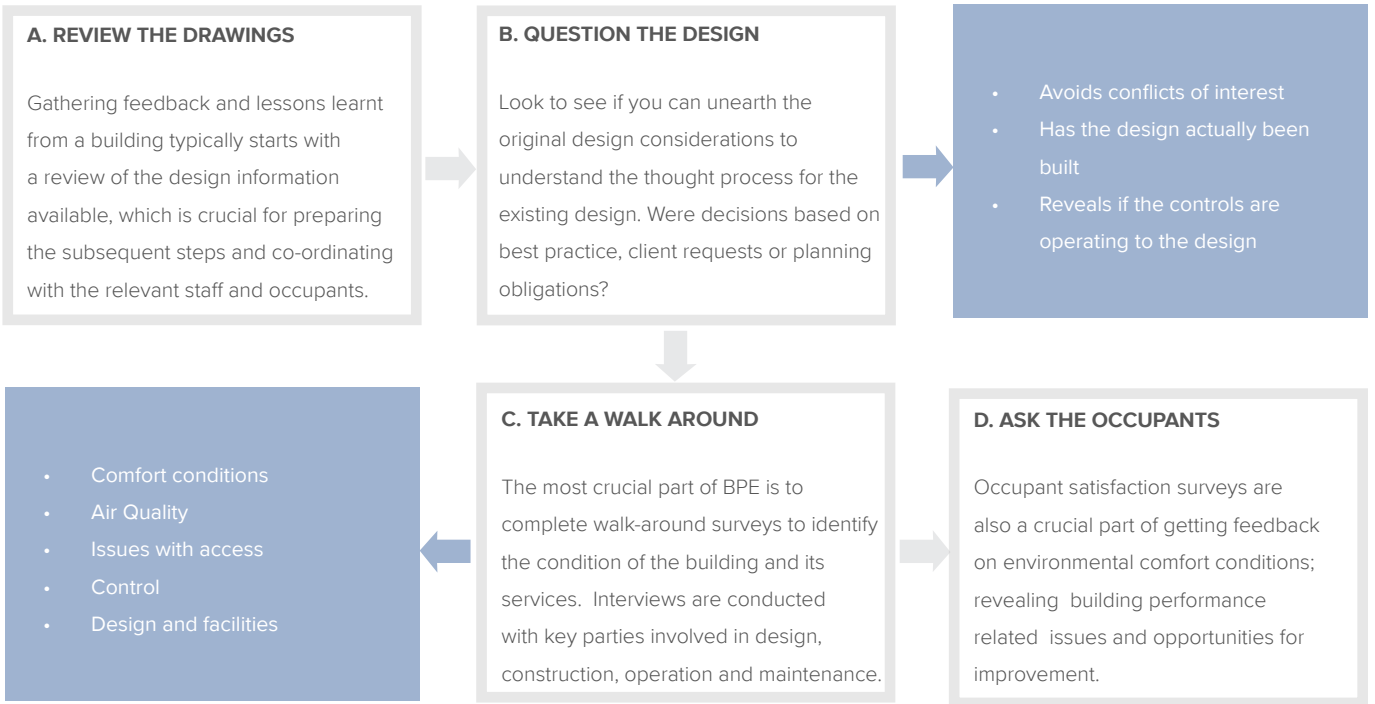
STAKEHOLDERS	MAIN DRIVERS	OPPORTUNITIES
<ul style="list-style-type: none"> Parties with INFLUENCE on building performance Parties with INTEREST in building performance Parties that are IMPACTED by building performance 	<ul style="list-style-type: none"> Creating better buildings Evolution of your product Added value to clients Performance contracts Certification (BREEAM/LEED) 	<ul style="list-style-type: none"> Bring design and construction teams together Improve environmental performance in current building Learn and apply lessons for future buildings



OUR METHODOLOGY INVOLVES THREE KEY STEPS:

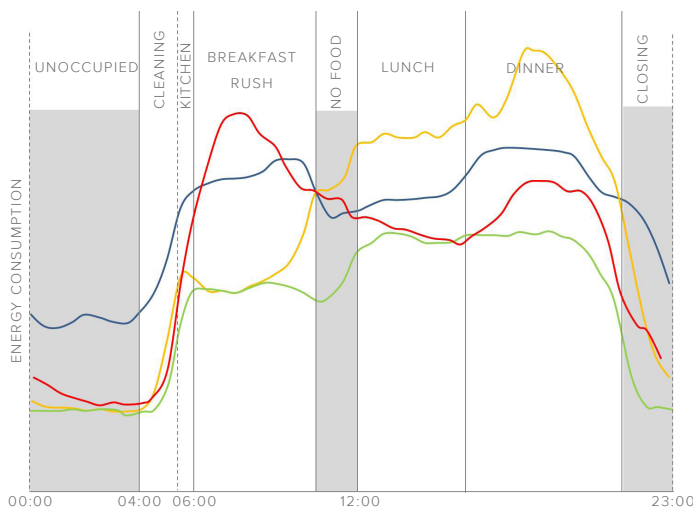
- Reviewing design information and gathering feedback and lessons learnt from occupants and key stakeholders
- Analyse the energy and environmental performance of the building
- Generating robust recommendations and suggestions for further optimisation

STEP 1 - FEEDBACK AND LESSONS LEARNED

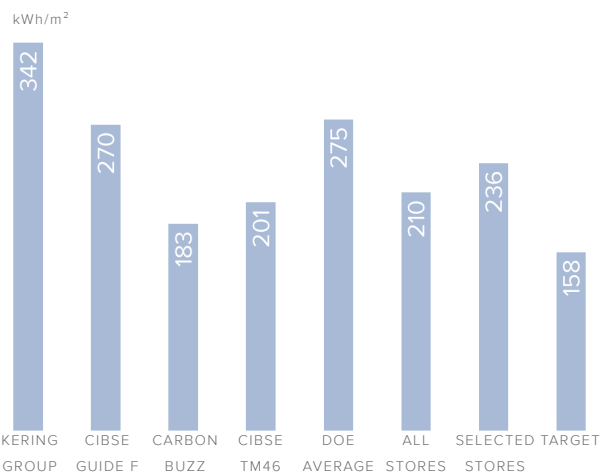


STEP 2 - ENERGY AND ENVIRONMENTAL PERFORMANCE

Assessing the energy and environmental performance of a building allows for a quantification of its performance. The available information on energy and water consumed in the building, and generation by any renewable technologies, is thoroughly analysed and assessed against benchmarks. During the site visits, indoor environmental conditions can also be measured. Thermography surveys can also be carried out to gather further details on building fabric and services performance.



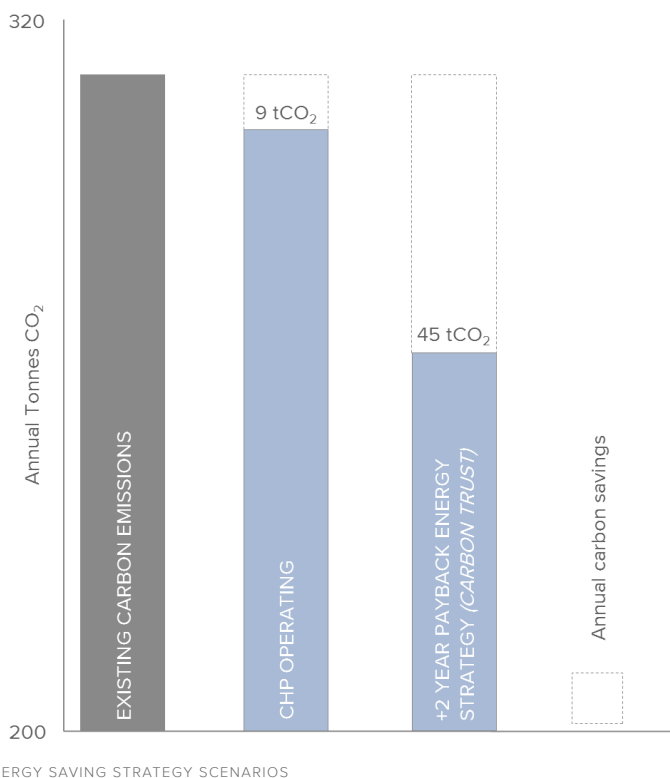
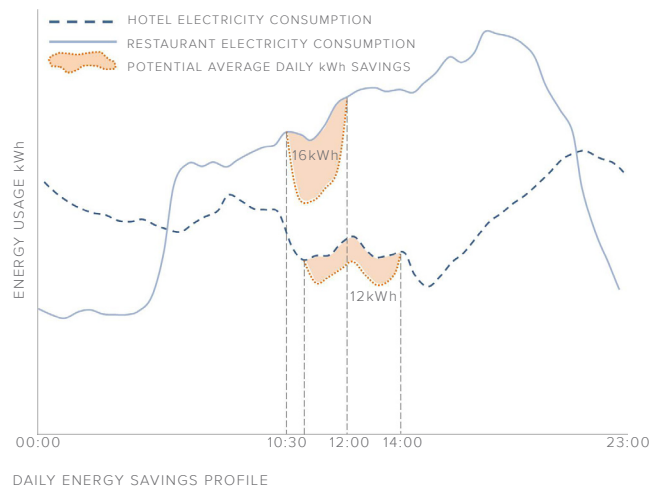
OCCUPANCY PROFILE



BENCHMARKING

STEP 3 - RECOMMENDATIONS AND OPTIMISATION

The last step in building performance evaluation is to bring all the information together and draw up a set of useful recommendations for enhancing the in use performance of the building. Lessons should be disseminated across all the relevant stakeholders. Occupants should be informed about the outcome of the study and provided information on how to interact with the building. Finally, the feedback loop is closed by sharing good practice and lessons learnt across the industry to ensure what we are designing is operating as it should.



THE KEY TO RETROFITTING ENERGY SAVING MEASURES:

1. Identify practicable measures to achieve savings
2. Establish the financial case for introducing each measure
3. Select equipment on the basis of certified or otherwise independently verified product performance data
4. Obtain funding for the proposed measures based on the benefits
5. Implement the savings in a planned way with the least disruption to the building
6. Monitor the savings to confirm they have been achieved and to ensure they are maintained

HOW CAN WE HELP YOU?

XCO₂ offer workshops and lunchtime presentations to provide a thorough background on BPE processes and benefits. We also carry out full BPE on all types of buildings and can offer consultation and operational guidance through a project lifespan.

To learn more about our BPE services or for more details on arranging workshops then get in touch via mail@xco2.com