

MEDIA RELEASE



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eTool LCA identifies dramatic carbon savings in leading UK development

A life cycle assessment by eTool reveals UK-based BioRegional's One Brighton project is delivering a 60 per cent reduction in greenhouse gas emissions compared to the average UK home with the potential to achieve up to almost an 80 per cent reduction.

The impressive findings from eTool's in-depth life cycle assessment for the inner city apartment development were recently released to a flurry of interest during the UK Green Buildings Council's Embodied Carbon Week.

eTool's LCA includes the embodied carbon emissions within this pioneering mixed-use and car-free twin block development, as well as One Brighton's day-to-day operational emissions from energy and water consumption. As with all eTool LCAs, they are conducted with eTool's unique online software, giving international standard EN 15978 compliant outputs.

eTool has also worked with BioRegional Australia on projects such as the 5x4 Hayes Lane project located in Melbourne, which was designed in accordance to One Planet Living principles. eTool software was used to calculate and optimise the full life cycle impacts of the project. eTool can assist projects in achieving endorsement against One Planet Living.

Pooran Desai, OBE, BioRegional co-founder, said: "The Carbon LCA carried out by eTool shed new light on our environmental strategy at One Brighton. It has given us a clearer insight into the relative importance of embodied versus operational greenhouse gas emissions which will inform our next One Planet Community. Carbon LCA has come of age and eTool are right at the forefront of this very useful approach to measuring environmental impact."

One Brighton was completed and occupied in 2010 and eTool's LCA was an important part of the review of its performance against the targets set in the One Planet Action Plan. The One Brighton is Bio Regional's follow-up multi-residential project to the world famous BedZed eco-village in Sutton, South London.

Pat Hermon, lead eTool LCA engineer, said: "An LCA never fails to raise interesting design questions surrounding not only material selection but operational energy, water, transport, waste and functionality. This LCA of One Brighton is no exception, particularly thanks to the transparency of the developers and post-occupancy monitoring - an important step forwards in closing the performance gap."

The findings from the One Brighton LCA report and the project's sustainability credentials have received a lot of attention in the UK. Read more about the project here:

[One Brighton achieves deep carbon cuts](#) – BioRegional, UK

[One Brighton releases 60% fewer emissions](#) – Building 4 Change, BRE Trust, UK

[One Brighton: Achieving a 60% carbon cut, aiming for 78%](#) - UK Green Building Council

[One Brighton achieves deep carbon cuts](#) – Global Sustain, UK

[BioRegional project delivers 60% carbon savings](#) – Building.co.uk

eTool is watching with interest as BioRegional continues its work to reduce OneBrighton's operational emissions in order to reach its 2020 target.

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Please note: High-resolution images and interviews are available on request.

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About eTool

eTool is a world leading life cycle software consultancy that optimises building design for lower environmental impact and high performance. Utilising our unique software eTool LCA®, we work with architects, engineers and developers to measure and improve the life cycle impacts of buildings, surpassing industry standards. eTool LCA® makes sustainable development easy to achieve and cost-effective for all size projects, from residential and commercial building to land development and infrastructure.

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