



Image courtesy of Leighton Properties: Kings Square One looking south towards Perth city.

Case Study: Kings Square One

eTool LCA helps John Holland achieve a 5-star rating through Green Star's new LCA-based Innovation Challenge

A life cycle assessment (LCA) conducted by eTool has helped Kings Square One (KS1) become the first building in Australia to qualify for the points associated with the LCA-based Innovation Challenge.

The project targeted and ultimately achieved a 5-star Green Star rating with the help of a LCA conducted by eTool, which contributed five points to the project's score. eTool provided consulting services including LCA modelling and recommendations on how to improve the design and the overall environmental and economic performance of the building.

"eTool made it easy for us to set a benchmark in whole of life environmental impacts that is both compliant with leading international standards and also recognised under the Green Star rating tool. I highly recommend integrating eTool at the earliest project stages to support systems thinking and inform decisions," said Patrick Jeannerat from John Holland.

Life Cycle Assessment

Maximise your Green Star rating with eTool LCA

“By using eTool LCA to achieve its 5-star Green Star rating, KS1 has clearly demonstrated to the industry that LCA’s time has come,” said eTool Business Development Director, Alex Bruce.

“No other single product or service in the Green Star space can offer more value to improving your buildings environmental performance and maximising it’s rating. The software is easy to use, fast and, most importantly, improves the overall performance of your building. It’s only a matter of time until LCA becomes standard procedure for the design of every building,” Mr Bruce said.

eTool LCA outputs are now compliant with EN15978 (whole of building LCA) and ISO14044, a mandatory requirement of the “Material Life Cycle Impacts” credit of Green Star’s Innovation Challenge. This in itself is a first in Australia and makes KS1 one of only a handful of projects in the world that comply with the international standards for LCA.

“eTool prides itself on innovation so we’ve been working hard to ensure our software is compliant with the international standards. It’s not an easy task which is probably why eTool is among only a handful of software solutions that report to these standards,” said Richard Haynes, eTool Co-founder and Software Development Director.

John Holland and ESD consultants Cundall were quick to respond and register KS1 for the Innovation Challenge credit when it was released by GBCA in August 2013.



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- Patrick Jeannerat, John Holland.



Developed by Leighton Properties, KS1 is located on the corner of King and Wellington Streets in the Perth City Link Precinct, part of one of Australia’s most significant CBD urban renewal developments. The building will offer 23,156sqm of A Grade commercial office space across 19 levels with 680sqm of ground floor retail.

