

RP2014

QUANTIFYING THE CONTRIBUTION OF GREEN INFRASTRUCTURE TO CARBON AND ENERGY PERFORMANCE

Snapshot

This study will develop a comprehensive and integrated assessment model, based on the services delivered by green infrastructure, in respect to the life span of its components. This model will provide a robust framework (composite indices) for sustainability and associated measurement strategies. It will establish a framework for a rating tool validation for industry partners and stakeholders.

Outcome

The value of this study for industry partners, is the ability to evaluate the overall performance of the entire project. This includes the green buildings and infrastructure projects which are associated with green infrastructure from the design to the ongoing performance during their life cycle. In addition, the Infrastructure Sustainability (IS) rating tool can be improved by this research in categories relating to landscape ecology, carbon and energy, people and place. This

research project can be used to map, review and revise these categories through stakeholders' contribution. The outcome will help assessors to gain higher rating scores for infrastructure projects which will result in higher financial performance and enhanced shareholders' value.

Low Carbon Precincts

4. Designing integrated low carbon precincts

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Partners

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PROJECT START DATE: JUL-14