



IS Case Study— Gold Coast Light Rail



Project Background

The project relates to the development of a light rail system that passes through key activity centres of Southport, Surfers Paradise and Broadbeach. The 13-kilometre Stage One corridor and any future stages promise to significantly improve the liveability of the Gold Coast by improving accessibility, while reducing the effects of congestion that comes with a rapidly growing city. It is one of the most important pieces of transport infrastructure ever undertaken on the Gold Coast.

<p>Certified July 2014</p>	<p>\$430 million</p> <p>Capital Value</p>	<p>Rail</p> <p>Asset Type</p>	<p>QLD</p> <p>State</p>
<p><\$2M</p> <p>Total Additional Cost</p>	<p>\$14.7M</p> <p>Total \$ Benefit</p>	<p>55%</p> <p>Embodied Carbon Benefit</p>	<p>43%</p> <p>Water Use Benefit</p>
<p>First certified rating for Rail</p>	<p>First project to be certified with a score higher than 60 points</p>	<p>Identification of over 189 sustainability initiatives</p>	<p>600%</p> <p>Return on Investment</p>

“Applying the IS rating tool on the project provided a driver to change the way the project was delivered and more importantly the way in which project personnel may lead future projects”



Costs

Total cost of the rating including rating fees, tracking and initiatives was <\$2 million

Benefits

Innovative and collaborative design to avoid moving a sewer pipe from within an old landfill site—modification of viaduct from a bridge type structure to a slab on pile structure.

Avoid the need to excavate and relocate 68,200 tonnes of waste material,

40% reduction in the quantity of concrete and steel required

Reduction in embodied carbon emissions of 3,200 tCO₂-e

Recycling of sand from excavation to local beaches

Savings from reduced transport and recycling fees

Improvement to local beaches

Saved 44,000 tonnes of materials

55% reduction in embodied carbon emissions

Saved 5,000 tonnes of carbon emissions

156,000 tonnes of waste diverted from landfill

90% recycling of inert and non-hazardous construction waste

100% recycling of spoil

Improved outcomes for the community through better engagement and involving key parties in decision making

Block to block closures were agreed as a trade off for the project team halting works during Christmas period.

Improving capability and employment opportunities within the greater Gold Coast area

96% of project employees were recruited from within greater Gold Coast Area

80% living within the Gold Coast City Council area.

TOTAL SAVINGS

\$14.7 MILLION

RETURN ON INVESTMENT FOR CONSTRUCTION

>600%