



Greenhouse Gas Avoided InfoGraphic

Example Detached Residence

Your Company

Assessed by : Richard Haynes

Certified by : Fei Ngeow

21 August 2014

Example Detached Residence



A Life Cycle Assessment has been carried out on the proposed design, calculating the carbon emissions due to materials' manufacture, materials' transport, building material, building maintenance and building operations. The boundary of the assessment includes the building foundations, floors, walls, roof, internal finish, external finish, services and basic fittings. The results measured against a benchmark are summarized below:

Design Embodied Carbon
839 kgCO₂e per year per Occupant. Saving of 45%

Design Operational Carbon
-671 kgCO₂e per year per Occupant. Saving of 126%

Total Design
168 kgCO₂e per year per Occupant. Saving of 96%



Assessed by

A handwritten signature in blue ink, appearing to read 'R Haynes'.

Richard Haynes

Certified on 21 August 2014 by

A handwritten signature in blue ink, appearing to read 'Fei Ngeow'.

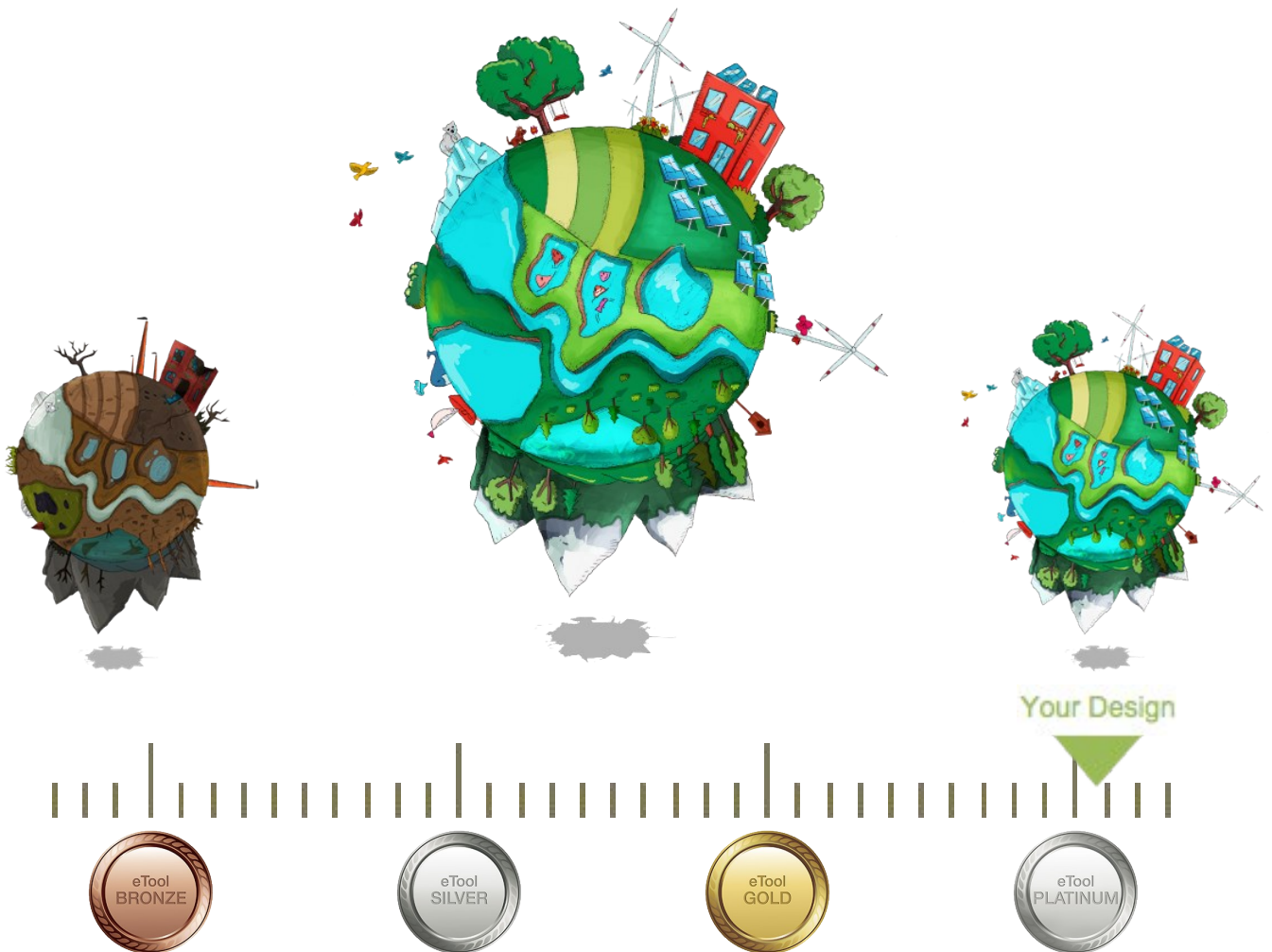
Fei Ngeow

The Ratings Explained:

- Bronze: 0 – 30% Greenhouse gas emissions saving against the applicable benchmark
- Silver: 30 – 60% saving
- Gold: 60 – 90% saving
- Platinum: 90% saving plus gold in all categories for overall Platinum rating.

Environmental Sustainability Scale

Example Detached Residence



The depictions above represent the predicted impacts of greenhouse gas pollution in IPCC reports. A best cast scenario of rapid but green growth towards a services economy and clean energy limits temperature rise to 1.8 degrees C. Adverse effects limited to 1m sea level rise, 30% of total species at risk. An 80% reduction in greenhouse gasses by 2050 required to maintain this safe threshold. A business as usual fossil-fuel intensive development scenario leads to temperature rise of over 4 degrees C. This would likely lead to 1.4m sea level rise, possible runaway climate change, a mass extinction event and significant economic and social turmoil.

Source: IPCC and eTool LCA, Certified 21 August 2014



Greenhouse Gas Emissions Avoided

Over its life span, it is expected this building will emit 552 tCO₂e less than average or standard buildings providing the same functionality. This is equivalent to:



native Australian trees planted



cars taken off the road for a year



zero energy Australian homes for one year



balloons of CO₂ gas removed from the atmosphere