

# Tractile

JASON PERKINS

CEO

# The Big Trends

- Increased demand for materials, labour, & energy driven by population growth and globalisation raising living standards of masses
- Climate Change: increased frequency and intensity of storms
- Systems integration: smartgrids, real time measurement and control, combining technologies

# Building Integration

BIPV      Curtain Wall Glass

RIPV      Roofing Systems

PV-T      Electricity & Hot Water

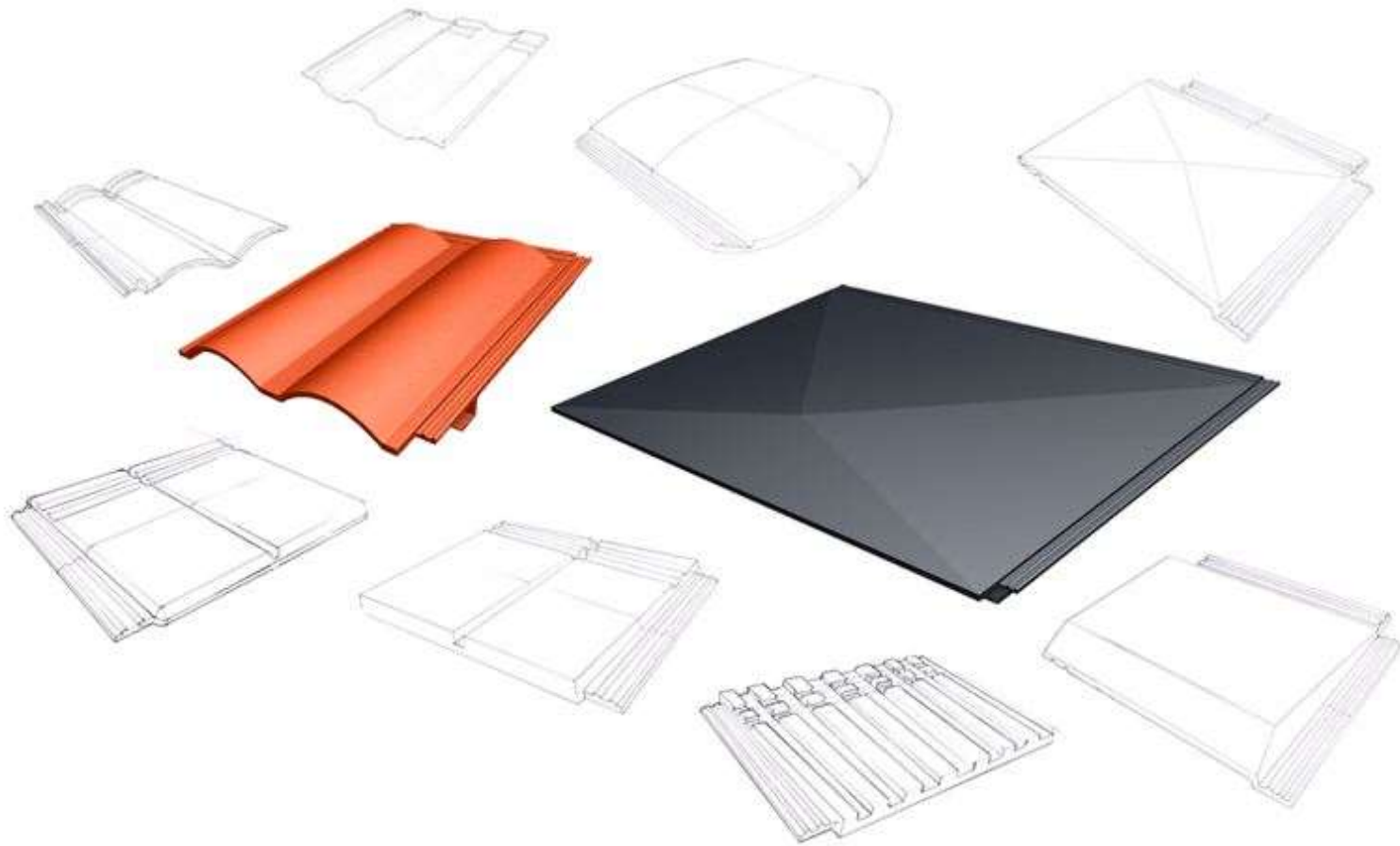
RIPV-T    Tractile Solar

# Resistance to Change

- PRICE      \$ per watt trending down  
Technology efficiencies trending up
- DESIGN    Roof mounting is UGLY  
Complexity of integration

# Tractile

Interlocking Roofing & Walling

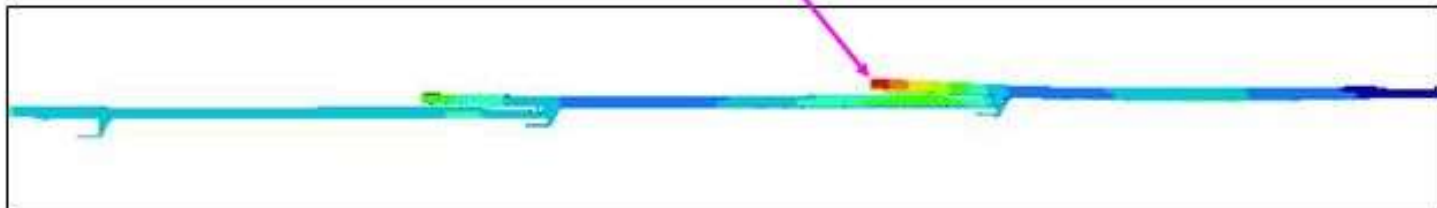
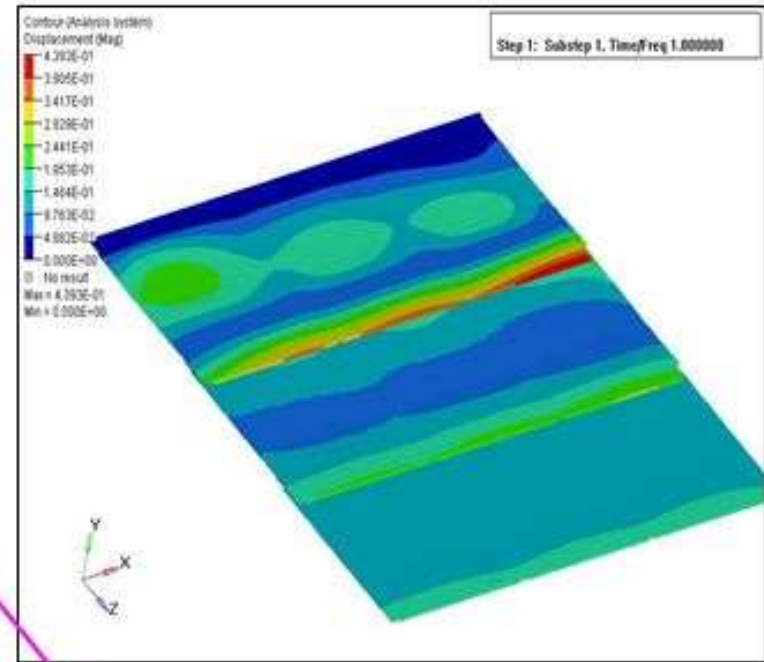
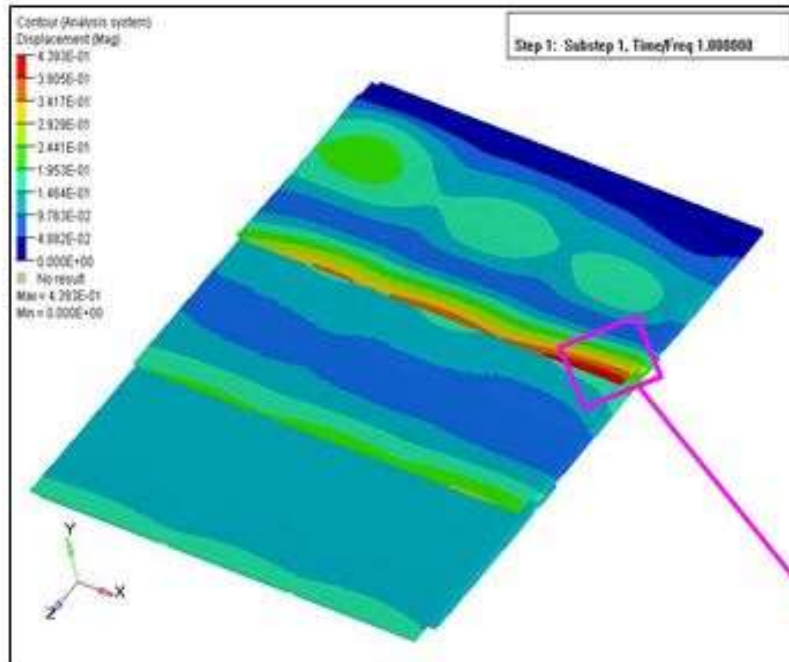


# Tractile

Engineered for wind speeds >300 km/h

Live Loads >200 kgs

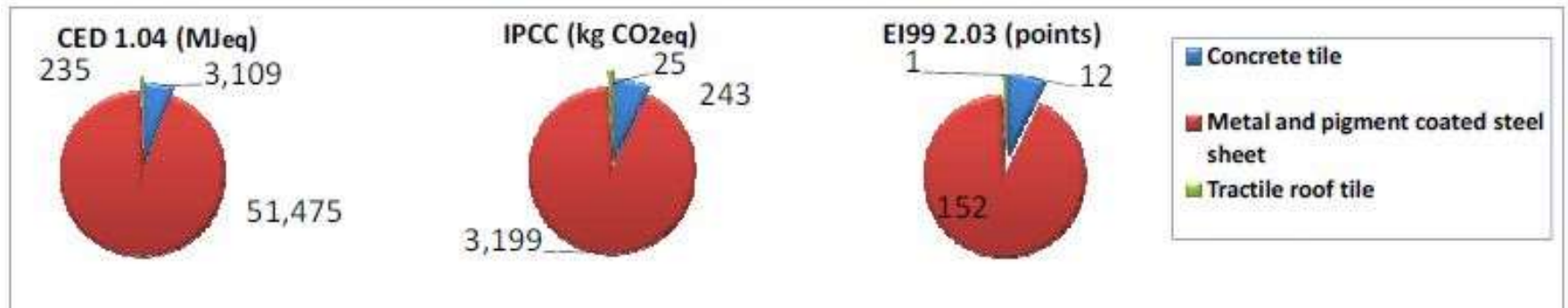
CRC-Advanced Composite Structures



# Tractile

Composites: Calculating their Embedded Energy Study

UNSW Life Cycle Engineering & Management Group



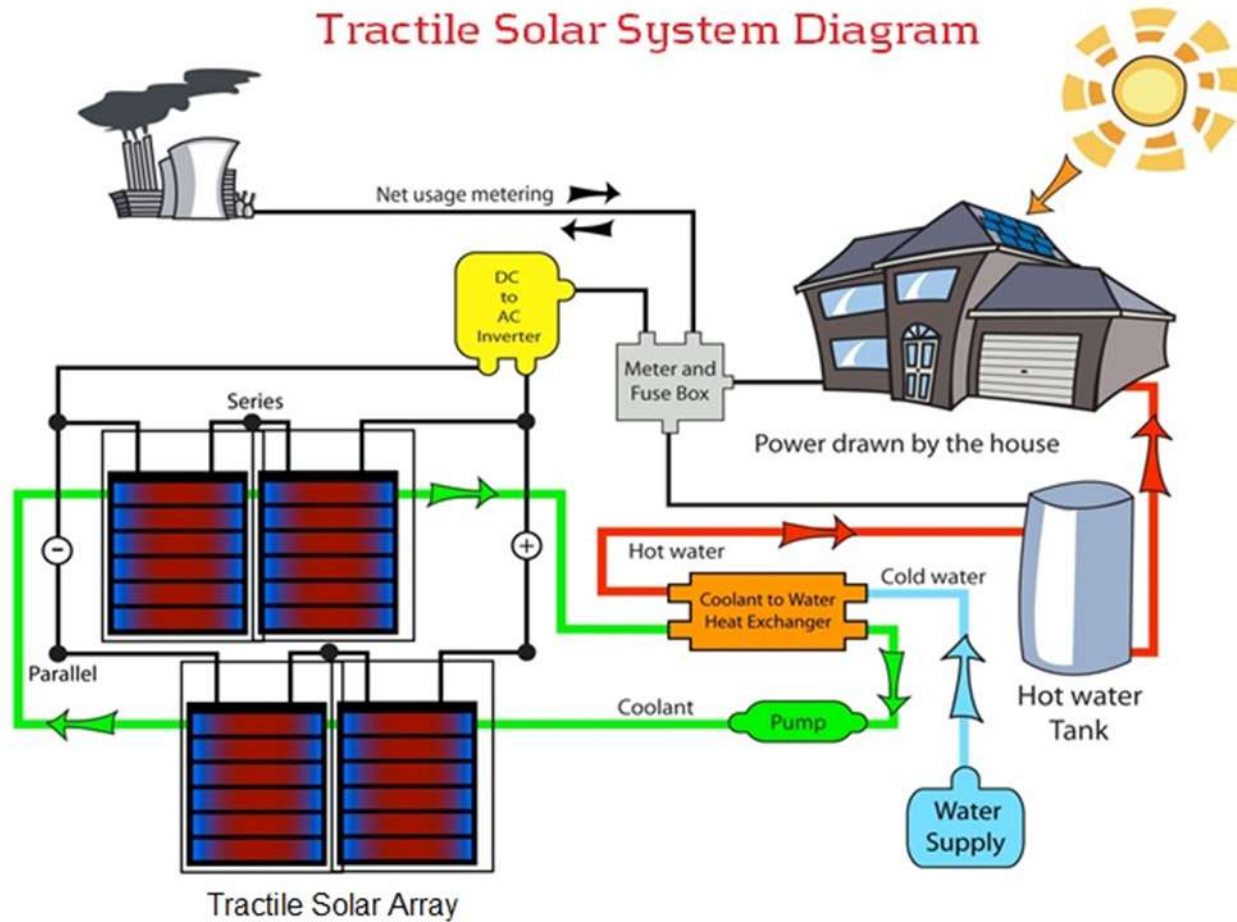
**Figure E.5:** Comparison of 1 square metre of roof tile manufactured from glass reinforced plastic of B-Pods (Tractile) Pty Ltd, concrete tile and coated steel sheeting.

In the future Tractile will be made from natural fibres and natural resins when price and performance improve.

# Tractile Solar

Building Integrated Photo-Voltaic & Thermal (BIPV-T)

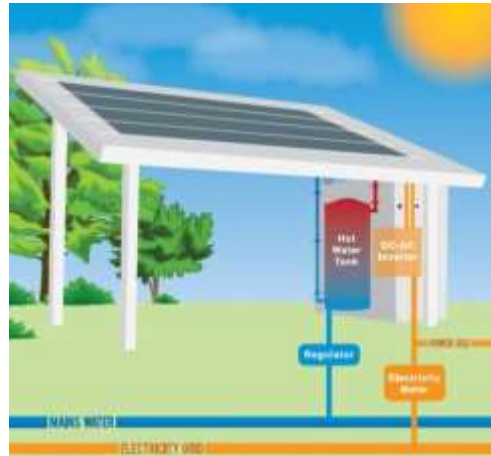
Tractile Solar System Diagram





# Tractile Solar

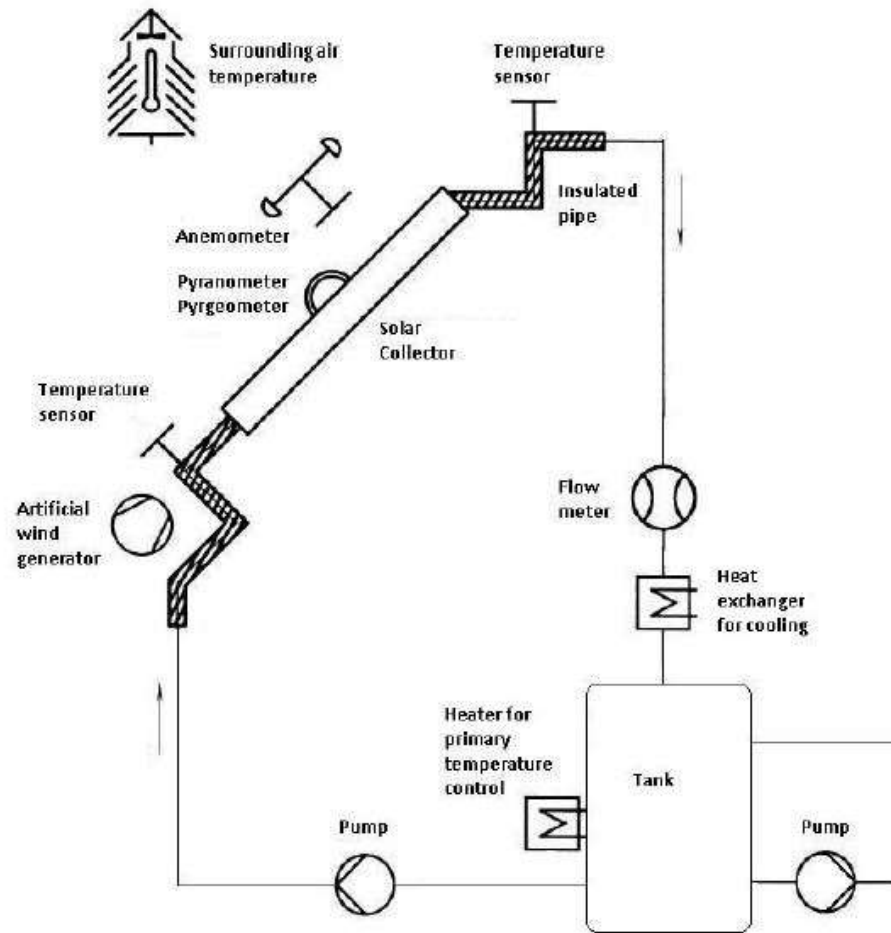
Ergon Energy Funding Agreement \$240,000  
Demonstration 1.5kw testing sites



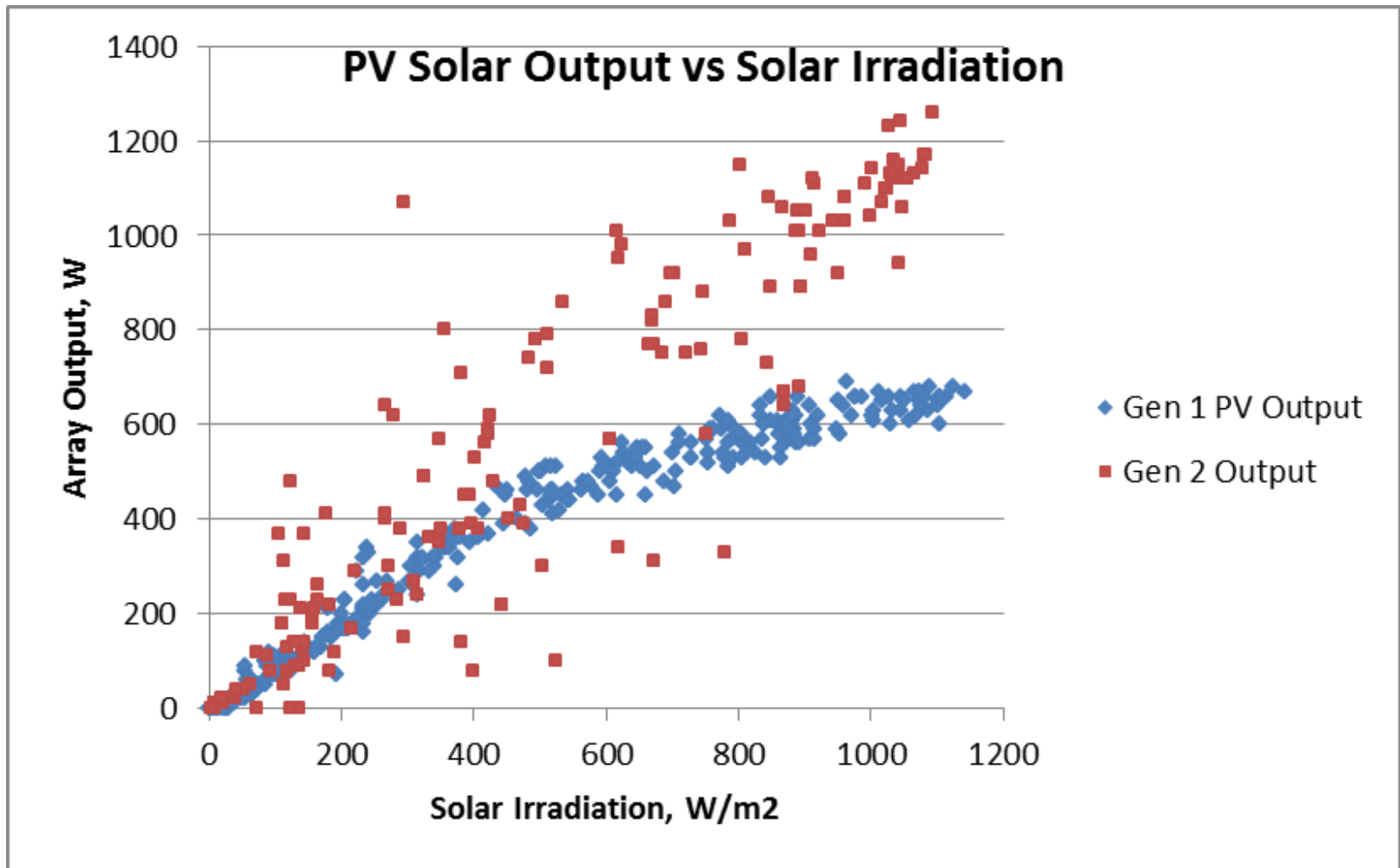
**Townsville Solar City Project**  
Townsville City Council  
Rowes Bay, Townsville

**Active Research Project**  
Bond University Institute of  
Sustainability and Architecture  
Gold Coast

# System Testing



# Generation 1 vs. Generation 2



# Tractile Solar

Ergon Energy Funding Agreement \$240,000  
Demonstration 1.5kw testing sites



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# Tractile Solar

International Demand

IGEM 2011 Kuala Lumpur Malaysia



# Tractile & Tractile Solar

Commercialisation Australia

Pr



# Tractile & Tractile Solar

Commercialisation Australia

Proof of Concept Grant #2321 2100





JEC Asia 2012  
Innovation Award for  
Enerav



# Tractile & Tractile Solar

Commercialisation Australia

Pr



# Tractile & Tractile Solar

Commercialisation Australia

I



# Tractile & Tractile Solar

Commercialisation Australia

Pr



# Australian International Design Awards 2013



Design Award™  
Sustainability



Design Award™  
Best in  
Category



# Tractile

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