ANODISERS WA

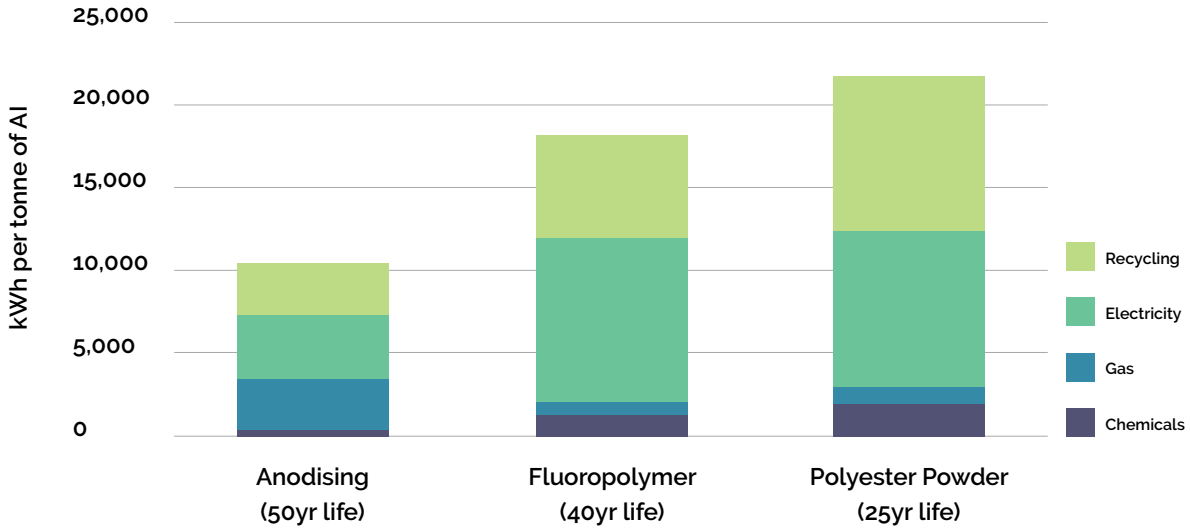
Declare

Supply Chain Sustainability.

100 YEAR LIFE CYCLE ANALYSIS

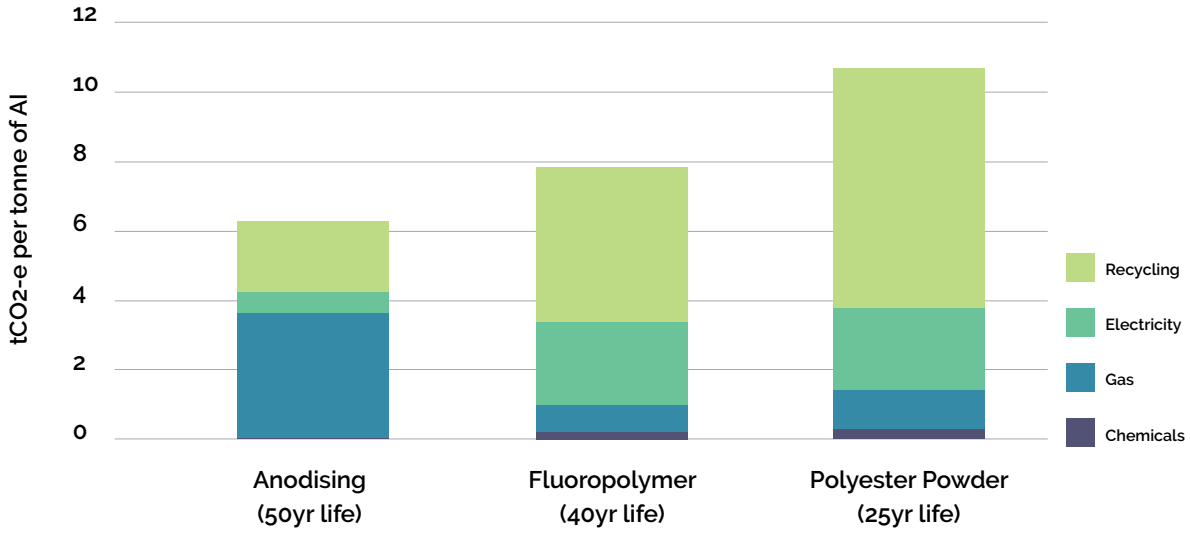
Energy Consumption

Production of 1 Tonne of surface finished aluminium **100 year life Cycle – Kwh per tonne of aluminium**



GHG Footprint

Production of 1 Tonne of surface finished aluminium **100 year life Cycle-tCO2-e per tonne of aluminium produced**



Environmental Impact

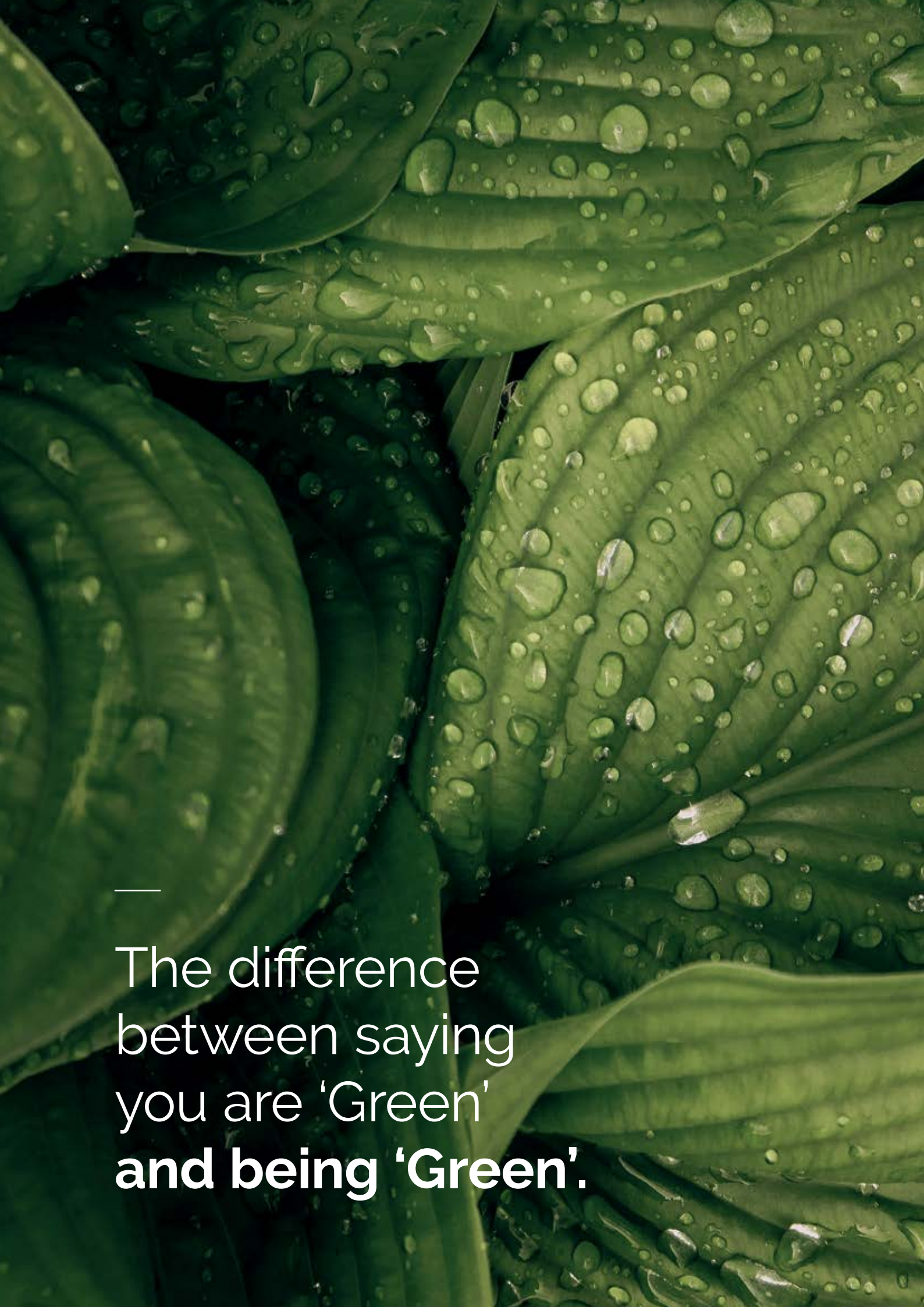
Measure the impact of your next project

Here is a helpful guideline:

Typical Residential 3-5 tonnes

Small-Med Residential & Commercial: 10-50 tonnes

Large Residential & Commercial: 100+ tonnes



The difference between saying you are ‘Green’ **and being ‘Green’.**

One of the finishes below uses
up to **51%** less energy (kWh) & produces
up to **38%** less green house gasses (GHG).

Anodised

Powder Coated

The other is powder coated

ENVIRONMENTAL IMPACT COMPARISON:

"From the results of the 100 year Life Cycle Analysis (LCA), anodising is better, both in terms of Energy Used (kWh) and Greenhouse Gas (GHG) emissions (CO_2-e) per tonne of aluminium product"

Green Case Study

West Australia Museum

The decision to specify anodising, on this project, has lessened the impact on our environment, as shown in the following audit.

Project: New West Australia Museum – Perth, WA
Stakeholders: WA Government (Client), Hassel Architects + OMA and Multiplex
Anodising Scope / Spec: 25micron, Exterior / Interior Facade, Perforated and Solid Panels & Glazing.

TONNEAGE of Anodised Aluminium used on project

Exterior Facades/ Metalwork	115 Tonnes
Interior Facades/ Metalwork	29 Tonnes
Glazing	23 Tonnes
Roofing	12 Tonnes
TOTAL (approx.)	**179 Tonnes**

Comparison of Environmental Impact

The following table demonstrates the savings to the environment over a 100 year period.

		Green House Gasses produced		Energy Consumed	
Aluminium Finish	**Weight of Aluminium Used - tonne**	**Co2 per tonne of Al**	**Total tonnes of Co2**	**kWh per tonnes of Al**	**Total kWh**
Anodising	179	6.42	1,149	10,338	1,850,502
Powder Coating	179	10.36	1,854	21,493	3,847,247
SAVINGS by specifying Anodising		**3.94**	**705 tonnes**	**11,155**	**1,996,745 kWh**

100 YEAR LIFE CYCLE ANALYSIS

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ANODISERS WA

Get in touch

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