

Blueprint

Uralla Case Study



WHAT CAN CONTRIBUTE TO ZERO NET ENERGY







# The Z-NET Blueprint

The Z-NET Blueprint sets out a simple logic for communities across Australia to establish a least cost approach to investing in renewable energy. To establish a business case for action the community needs to weigh up the benefits with the costs and compare this to other possible actions.

The Blueprint ensures that actions that have the most benefits or least cost are taken first. The Blueprint also recognises that both benefits and costs of renewable energy options change over time. The approach allows a community to take practical action immediately and resolve a framework to consider future investment to meet the Z-NET goal.







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### Summary of electricity option evaluation

Options	Impact (% ZNET)	Business Case	Technical	Regulatory	Managing risk	Customer market	Enviro benefit	Social benefit	Economic benefit
Using less – Hot water	3.1	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark$
Using less – Lighting	2.2	$\checkmark \checkmark \checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark$
Using less – Appliances	3.1	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark$
Using less – Business energy efficiency	0.9	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark$	$\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$
Generating on-site – Residential and business solar PV	12.6	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark$
Generating nearby – Utility scale electricity generation	?	×	$\checkmark$	$\checkmark$	×	$\checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark$	×
Importing renewable energy (GreenPower)	?	$\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark$	$\checkmark$	$\checkmark\checkmark\checkmark$	$\checkmark$	×

#### Reading a cost curve

1. Each scenario represents a scenario that contributes to a ZNET

The height and position of a block either below or above the x-axis, shows the cost or each % of getting to ZNET

osition below is, reach NET

> The width of a block shows the how much the scenario can contribute to a ZNET.

2. The difference between 'costly' and beneficial options

# Beneficial scenarios All of these scenarios are expected to be financial benefits. They save you money once you take into account all of the costs and benefits over its lifetime. Visually they have a "negative levelised cost" and are positioned below' the x-axis Costly scenarios These scenarios are expected to be financially costly. All things considered financially costly. All they costly are the scenario. Visually they have a "positive levelised cost" and are positive levelised that their costs will outweigh their benefits over the life of the scenario. Visually they have a "positive levelised cost" and are

positioned above the x-axis.

3. The blocks 'build" left to right towards achieving the ZNET target.



## TOWARDS Z-NET: CLEAN ELECTRICITY COST CURVE





## Summary of wood option evaluation

Options	Impact (% ZNET)	Business Case	Technical	Regulatory	Managing risk	Customer market	Enviro benefit	Social benefit	Economic benefit
Using less – Thermal comfort	7.0	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark$
Generating nearby – Woodland restoration and reforestation	40.8	$\checkmark$	$\checkmark\checkmark$	$\checkmark\checkmark$	$\checkmark$	$\checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark\checkmark$	$\checkmark$
Importing energy – Purchase of a third party certified firewood supply	?	$\checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark \checkmark \checkmark$	$\checkmark$	$\checkmark$	$\checkmark\checkmark$	$\checkmark$	×

TOWARDS Z-NET: SUSTAINABLE WOOD COST CURVE





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# Z-NET Uralla Enablers





