The Million Jobs Plan

Australia can create millions of jobs by becoming a renewable energy superpower

Eytan Lenko
Chair and Interim CEO
Beyond Zero Emissions
Beyond Zero Emissions shows how Australia can thrive through a transition to a zero carbon economy.
Beyond Zero Emission NT 10GW Vision

- Showed how the NT can base the economy on its renewable resource
- Showed the jobs and economic stimulus that could result
- Helped change the economic direction of the government

Built a coalition of supporters:
- Business
- Influencers
- Community
- Capital
- Politicians

Beyond Zero Emissions | www.bze.org.au
The Million Jobs Plan

Australia is at a crossroads

Billions of dollars will be spent in coming months/years

Double down on non-competitive, inefficient, polluting economy

Or move towards self-reliance by electrifying our infrastructure and powering it with cheap, reliable and efficient renewables sourced in Australia

Leading principal behind a strong stimulus program is that it should create jobs and not be wasteful

Ideally it would bring forward spending that would have happened anyway and encourage private sector investment
**Trend from Analog to Digital**

**Analog, fire-based technology**
- Inefficient
- Pollution
- Centralised
- Expensive
- High-maintenance
- Long supply chain
- Dependence

**Digital, electrical technology**
- Efficient
- Clean
- Distributed / Modular
- Cost-effective
- Low running cost
- Scalable
- Self-reliance

Beyond Zero Emissions | www.bze.org.au
2 Streams

Painting
the national vision

Bringing
it to life
## Overview

<table>
<thead>
<tr>
<th>Activity</th>
<th>Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast-track renewable energy &amp; transmission</td>
<td>100,000 – 150,000</td>
</tr>
<tr>
<td>3 million ‘Zero Energy Bill’ buildings</td>
<td>320,000 – 400,000</td>
</tr>
<tr>
<td>Modernising and expanding Australian manufacturing</td>
<td>220,000 – 300,000</td>
</tr>
<tr>
<td>100% Renewable mining</td>
<td>10,000 – 30,000</td>
</tr>
<tr>
<td>Recycling - 100% recovery of materials</td>
<td>25,000 – 35,000</td>
</tr>
<tr>
<td>Electrified transportation</td>
<td>50,000 – 100,000</td>
</tr>
<tr>
<td>Land restoration and carbon farming</td>
<td>40,000 – 60,000</td>
</tr>
<tr>
<td>Community led initiatives</td>
<td>&gt; 100,000</td>
</tr>
</tbody>
</table>
## Fast-track renewable energy & transmission

<table>
<thead>
<tr>
<th>Release the power of new solar and wind projects with transmission and storage</th>
<th>Fast-track 90 GW of renewable energy over the next 5 years</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fast-track 10 new transmission and storage projects</td>
<td>Manufacturing jobs for wind turbines</td>
</tr>
<tr>
<td>130 GW of projects already in the pipeline</td>
<td>100,000 - 150,000 jobs</td>
</tr>
</tbody>
</table>

Beyond Zero Emissions | www.bze.org.au
Three million ‘zero energy bill’ homes and building retrofits

- Deep energy retrofits to 3 million homes and commercial buildings
- After retrofit, homes no longer pay electricity or gas bills (Energiesprong model)
- Start with social housing, low income homes, inefficient homes, schools, hospitals.
- Deep energy retrofits of e.g. 500,000 buildings per year
- Disconnect from gas, homes are net zero carbon
- France aims to retrofit 500,000 homes per year, Ireland 50,000 per year
- 320,000 – 400,000 jobs
Modernising and expanding Australian manufacturing

Australian manufacturing is inefficient, consuming more energy per dollar of output than any other developed country.

Electricity isn’t just another source of energy. It allows us to make things in a smarter way. Electrical heating is more efficient, faster, precise, modular and scalable.

An industrial heat pump can pay for itself in 1 – 7 years depending on application.

Grant/Loan program to bring down payback to 2 years across the board to rapidly transition manufacturing to zero emissions.

Govt support for Aluminium with underwritten cheap electricity from renewable energy zones.

220,000 – 300,000 jobs
100% Renewable mining

Mining already employs around **150,000 people** in Australia (excluding fossil fuel extraction)

Mining causes **5%** of Australia’s greenhouse emissions

Switching to renewable energy can reduce pollution, cost and risk

Improve mining sector’s social license to operate and standing with investors

**10,000 – 30,000** jobs
Recycling - 100% recovery of materials

- Schemes to plastic, paper, glass, metal and organics.
- Avoided emissions from making virgin materials, avoided methane emissions from landfill
- 25,000 - 35,000 jobs
**Electrified transportation**

- **Bus electrification program with local manufacturing**
- **Trains**
  - Replace Diesel trains
  - High Speed Rail (replace air travel)
- **EV infrastructure rollout**
- **50,000 – 100,000**
Land restoration and carbon farming

Would assist in the transition of the forestry sector away from native and old growth logging

For every billion plantation trees established (400,000 ha), 18,000 jobs would be created over the next 10 years

At least 5,000 Indigenous Rangers will need to be trained and employed

Increase farming productivity, resilience and wellbeing of farmers

Revegetating 55 Mha of land (~30% of existing forests) over 10 years will create 38,000 jobs and reduce emissions by 10% (based on 2006-2010 emissions)
Community led initiatives

- Identified over **100,000 jobs** in community led initiatives
- Zero Carbon Communities and other stakeholders surveyed
- **Community benefits**: local jobs and training, energy bill savings, improved air quality, community empowerment, keep young people in the community
- Projects include community energy hubs, microgrids, urban farms, biodiversity conservation and training programs
Join us and contribute

Policy suggestions
Contribute worthy projects
Volunteer your expertise
Share with your network
Share your network with BZE

Beyond Zero Emissions | www.bze.org.au
Contact details

Eytan Lenko
@eytanlenko
eytan.lenko@bze.org.au

bze.org.au/the-million-jobs-plan