



A Beyond Zero Future for  
South East NSW

**REPOWER**  
SHOALHAVEN  
WWW.REPOWER.NET.AU

fact sheet

# Electrification of Everything in Shoalhaven!

## To save the planet and create jobs

### What are the emissions & bill savings?

#### Households:

An average complete retrofit, excluding roof-top solar, costs \$11,000. It will:

- cut energy bills and emissions by **40%**
- pay itself back in **seven years**
- make you **\$23,000 better off** over 20 years

Add a **5kW** roof-top solar system costing **\$5,000** to the same retrofit will:

- cut emissions by **65%**
- make you **\$27,000 better off** over 20 years

#### Business:

- Cut power and fuel bills
- Reduce emissions

#### Council:

- reduce its emissions by **5%** pa
- save \$ in annual power costs

#### Shoalhaven Community:

- Reduce electricity emissions in 2030 by **50%** on 2010
- Create **180 new jobs** & investment of **\$70m p.a.**

**Wow! Doing my bit for a safer climate makes me serious risk free profit**

**After retrofit payback period it's about:**

**\$1500 per year without roof-top solar**

**\$2,200 per year with roof-top solar ...**

**& that's before using your EV!**

### What are the best electrification measures?

#### Best retrofit and energy efficiency:

Households – low-flow shower rose, reverse cycle heating/cooling, low wattage lighting and heat pump hot water system (all < 3.5 year payback)

- ceiling insulation and draught sealing (both < 7 year payback)
- energy-efficient fridge and freezer (< 7.5 year payback)

Business – Lighting controls, Variable Speed Drives, Heating Ventilation Air-Conditioning and Cooling upgrades, LEDs

#### Best solar

Households and Business - instal rooftop solar (a home 5kW solar system costs @ \$5,000; a 15kW solar system for business costs @ \$15,000) and batteries (with EV charging!) If solar is not possible, buy 100% *Greenpower* from your retailer.

#### Best Community Solar Generation

- Mid-scale solar farms with batteries on Council or nil/low cost sites
- Community &/or Council as project initiators & participants • Major portion of generation for local usage

#### What about Electric Vehicles and bikes?

Switch to EVs when it's time to replace vehicles and use your solar or *Greenpower* for charging at home – faster solar payback! Pedal power or e-bike - an excellent option for distances less than 10-15 km.

**Planners and Councillors – Hear ye!** A call to 'cut' residents and businesses a piece of the climate action pie:

- **Survey retrofit needs** across the LGA. Homes built before the 2005 introduction of BASIX (Building Sustainability Index) are most likely to benefit.
- **Get out the information** about solar & retrofit/energy efficiency benefits through Council communications and advisory services, working with Community groups
- **Implement** SCC's solar bulk buy and installation program
- **Identify and facilitate the development of** suitable solar farm sites and projects
- **Encourage the development of** EV's and home/community charging facilities; make riding safer, provide more bike parking and promote it.

**Climate Action - the right thing to do puts \$ in your pocket**