

Renewable Energy Solutions for SONJA, OWNER/OCCUPIER OF A HOUSE



Smart Energy Future

SONJA WANTS TO:

- Lower her electricity bills
- Use clean energy
- Have more control over her energy use and supply

CURRENT OPPORTUNITIES:

- Install solar PV on the roof it is cost effective and adds value to the home. Even when half of the energy produced is exported to the grid, the payback is under five years.
- Have information ready for a solar PV installation, such as photographs of the switchboard and electricity meter, as well as a copy of the electricity bill.
- Install solar hot water or a heat pump to heat water and consider switching away from off-peak hot water to allow water to be heated by solar PV during the day.
- Invest in community renewables
- Install a heat pump (reverse cycle air conditioner) for heating, which also works in the shade.
- Purchase renewable energy
- Switch to carbon neutral electricity
- Purchase an electric vehicle and charge it using renewable energy
- Fully electrify the house and power through solar PV (refer to the MyEfficientElectricHome Facebook page)
- According to 'Your Green Guide Residential Real Estate 2018' by PRDnationwide and QUT, the median house price of properties with sustainability features like solar panels is at least 10% higher than houses without recorded sustainability features.

NEAR FUTURE OPPORTUNITIES:

- Increase the size of the solar array and install battery storage – more than 400 new batteries are being installed in Australia every week with numbers increasing exponentially. Innovative solutions are improving the business case even further.
- Sell surplus renewable energy (e.g. via peer-to-peer energy trading or solar energy aggregators operating in the national electricity market)

OTHER COST SAVING OPPORTUNITIES:

- Change old lights to LED with smart controls
- Always improve efficiency of building before installing solar electricity
- Adopt energy efficient practices when operating appliances and equipment
- North Sydney Council will pay for energy audit to

determine best options (for local LGA)

• Undertake passive energy saving measures like insulation, shading, window coverings, and draught proofing

WHO CAN HELP SONJA?

- Solar PV: Reputable solar PV installer (e.g. approved by the <u>Clean Energy Council</u>)
- Financing: Most major retailers offer \$0 upfront under a power purchase agreement (PPA) with savings compared with standard rates, plus feed-in tariff benefits belong to the home owner
- Community renewables: Contact groups such as <u>Community Power Australia</u>, <u>ClearSky Solar Investments</u>, <u>Enova</u> or <u>Solar Cloud</u>
- Incentivising renewable energy on an international scale: Solutions like <u>SolarCoin</u>, <u>NRGcoin</u>
- Purchasing renewables: Community renewables are explained in this <u>article</u>. <u>GreenPower</u> can be purchased through electricity retailers or other providers such as <u>Climate Chest</u> (GreenPower® is tax deductible if purchased through a community organisation such as <u>Climate Chest</u>)
- Carbon neutral electricity suppliers such as <u>Energy</u> <u>Australia</u>, <u>Powershop</u>, <u>Energy Locals</u>
- Energy efficiency measures: Reputable products and installers, <u>energy ratings of</u> <u>appliances</u>
- Independent assistance: Our Energy Future helpline: 1300 339 915 Council's sustainability team: 9936 8100, Council's <u>Green Events</u> program, <u>Renew Energy Consult</u>
- Compare energy offers at Energymadeeasy.gov.au
- Compare the environmental performance of electricity retailers at <u>www.greenelectricityguide.org.au</u>

Download these fact sheets on the "Smart Energy Future" homepage to be able to click on links directly.

HELPFUL ONLINE INFORMATION:

- Renew
- Guide to comfortable and sustainable homes
- <u>Renew Economy online publication</u>
- 'Your Green Guide Residential Real Estate 2018' www.prd.com.au/research-hub/your-green-guideresidential-real-estate-2018/



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Did you know?

- North Sydney Council uses renewable energy in many of its buildings because of the cost benefits, including solar electricity, solar hot water and heat pumps for space heating and hot water.
- North Sydney Council purchases 50% GreenPower for its six largest sites.
- North Sydney Olympic Pool has heat pumps which deliver 750kW of renewable energy, costing half as much to run as gas boilers, and a 100kW solar hot water system for pool heating.



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