

## **Suggestions for Electrifying Cooking, Heating and Cooling Functions to Decarbonise Your Home (to save money on power bills)**

These suggestions have been produced by the Shire of Narrogin to help you to decarbonise your family home by increasingly electrifying all cooking, heating, and cooling functions and powering them with renewable power:

### **Assess current energy usage**

Assess current energy usage, specifically focusing on cooking, heating, and cooling functions. This assessment will help you to identify areas that rely on fossil fuels or inefficient systems that can be replaced with electric and renewable-powered alternatives.

### **Transition to electric cooking**

Transition from gas-powered cooking to electric cooking appliances. Replace gas stoves and ovens with energy-efficient electric induction cooktops and electric ovens. Benefits of electric cooking include such things as precise temperature control and improved environmental safety.

### **Convert heating systems to electric**

Convert fossil fuel-based heating systems to electric alternatives. Consider electric heat pumps (reverse cycle air conditioning) for space heating and electric resistance heaters or heat pumps for water heating. Benefits of electric heating include increased energy efficiency and reduced greenhouse gas emissions. Consider solar hot water systems for larger households.

### **Upgrade to electric cooling systems**

Upgrade cooling systems to modern electric alternatives. This can include replacing inefficient air conditioning units with energy-efficient electric heat pumps (inverter air conditioners). Advantages of electric heating/cooling systems include improved energy efficiency, cleanliness and reduced environmental impact.

### **Install renewable energy systems**

Install renewable energy systems, such as rooftop solar panels to power the households' electrified functions. There are financial incentives, grants, and subsidies available for renewable energy installations. Always use qualified installers for all new systems.

### **Install energy storage and management**

Use energy storage and management systems controlled via your smartphone or system controller to maximise the benefits of renewable energy. Consider installing battery storage systems that can store excess energy generated by renewable sources for later use. Further investigate smart energy management systems that can optimise energy usage and reduce overall energy consumption.

### **Learn about energy-efficient practices**

Learn about the significance of energy-efficient practices in conjunction with electrification. Investigate ways to reduce energy consumption, such as properly insulating your home, sealing air leaks, and optimising temperature settings. Utilise resources such as workshops, or online tools that can help householders monitor and manage their energy usage effectively.

### **Financial incentives and support**

Inform yourself about available financial incentives, grants, and loan programs to support the transition to renewable-powered homes. This could include information on tax credits, rebates, and financing options for energy-efficient upgrades and renewable energy installations.

### **Monitor and evaluate your progress**

Establish mechanisms to monitor and evaluate the progress of decarbonising your home. This can involve regular surveys, data collection with smartphone apps, and analysis to assess the impact of the electrification efforts and identify areas for further improvement.

By following these suggestions, householders can convert their homes to be powered by renewable energy, effectively decarbonising their cooking, heating, and cooling functions. This collective effort will firstly reduce your power bill, saving you money in the medium to long term, contribute significantly to mitigating the impact of anthropogenic climate change and facilitate transitioning to a more sustainable future.