



Climate Emergency Plan Progress Summary 2021-2022

This progress summary highlights the key achievements the community and the Shire have made in the past 12 months contributing significantly to reaching our goal of net zero carbon emissions by 2040. More detail can be found in the full report at mornpen.vic.gov.au/trackourprogress

At a minimum, directly quantifiable community and council achievements alone have resulted in a reduction of over **25,000 tonnes** of CO₂-e in the last **12 months**. This is equivalent to **6,009 cars** permanently retired or removed from the road.⁽¹⁾

(1) The family vehicle is calculated to emit 4.16 tonnes over its lifetime (Department of Environment, Climate Change and Water NSW (DECCW), June 2010)



Figure 1. Solar installations resulting from Shire programs. A total capacity of 2.7 MW reduces carbon emissions by over 3,500 tonnes per year.

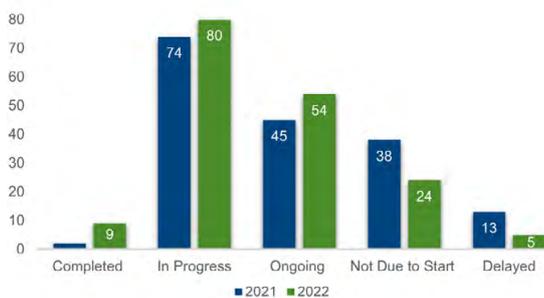


Figure 2. Progress of tasks within the Climate Emergency Plan in 2021 compared to 2022.

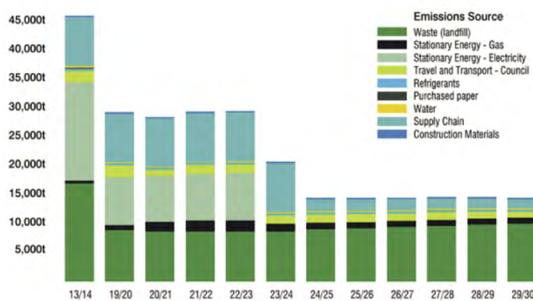


Figure 3. Projections of the Shire's operational carbon emissions. (Reporting years from 21/22 onwards are projections based on a range of assumptions).

Key community achievements supported by the Shire:

- 21 per cent** of buildings on the Peninsula now have solar panels installed. **1,976** solar PV systems were installed on the Peninsula in 2021/22, adding an additional **17.8MW** of renewable energy generation capacity. This was supported through APVI's SunSpot solar mapping tool.
- 205** business energy upgrades undertaken through the Small Business Energy Saver program, resulting in **\$175,847** annual savings to business and avoiding **627.86 tonnes** CO₂-equivalent (CO₂-e) annual emissions.
- 89** household energy assessments and **79** energy upgrades through the Energy Savvy Upgrades program supporting households struggling to manage their energy costs. This program resulted in an annual emission saving of **56,641 kg** CO₂-e. Over the life of the products this would be **566,410 kg** CO₂-e.
- Two** new Environmental Upgrade Agreements (EUA) signed in 2021/22. Local businesses have borrowed over **\$2 million** through EUF, saving of **\$279,888** and an annual reduction of **1,695 tonnes** of CO₂-e. The Shire has now signed the most EUF's compared to any council across Victoria.

Key Shire achievements:

- Establishment of the **Climate Oversight Group (COG)**.
- The Shire has installed **1.26 MW** of solar PV on Shire buildings, of which **84 kW** was installed in the past year, as well as four hot water heat pumps and seven electric vehicle chargers. In addition, **112 streetlights** were upgraded to energy efficient LED lights, with **4000** more planned for upgrade.
- Awarded a total of **19 Climate Action Grants** totalling **\$142,315** to **19** community-led initiatives.
- Developed a **Tree Ledger GIS** application to monitor tree canopy cover and guide capital projects, urban planning, strategies and plans and will help in prioritising areas for tree planting activities.
- 73 hectares** of biolinks created and **23,000 trees** and shrubs planted.
- Deployed **1,000 new food organic collection caddies** (FOGO) diverting **1,500 tonnes** of food waste from landfill.