



Strata Committee member and project manager David Walton with the Mitsubishi Q-Ton air-to-water heat pump

## Electrifying 51 Apartments with solar and a heat pump

In 2020, the Owners Corporation at a large apartment block in Wride St Marboura began their electrification journey by installing a 30kW solar system. Then in 2021, they replaced their centralised gas hot water system with a 30kW electric heat pump. The building is now saving \$36,000 a year in energy costs - \$6000 p.a. from solar and \$30,000 p.a. from the heat pump!

Replacing the centralised gas hot water system meant a new hot water metering solution was needed. The Strata Committee now apportions the cost of the electricity used by the heat pump, minus the solar contribution, to each unit based on lot size. Annual electricity costs for hot water consumption range from \$120 for 1 bedroom to \$180 for 3 bedroom apartments, and is administered through strata management.

Thanks to the hard work and innovation of the Strata Committee, Strata Management, product suppliers and installers, this building is a leading example of how strata communities can significantly reduce costs and emissions through electrification.

*Interested in exploring solar or a heat pump for your Strata building? Council's Sustainability Rebates and Building Futures program can help.*



\$82,000 total  
**project cost**



\$36,000 total  
annual cost **savings**



**58 tonnes** carbon  
emissions avoided



**2.3 year** payback  
on the project

### SOLAR SNAPSHOT

Size: 31.7 kW  
Panels & inverter: Risen RSM120 solar panels  
Huawei SUN2000 inverter  
Cost: \$32,000  
Installer: Arc Renewables  
Cost savings: \$6,000 p.a.

### HEAT PUMP

Size: 30kW Mitsubishi Q-Ton  
Refrigerant: CO2  
Tanks: Wilson & Exegi  
Cost: \$50,000  
Cost savings: \$30,000 p.a. in gas bills

#### Find out more

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