HARDY ELECTRICAL & SOLAR

Tweed Regional Gallery
& Margaret Olley Art Centre

Location
Murwillumbah, NSW

Date of completion
November 2022

Scope of works

The Tweed Regional Art Gallery faced a significant challenge in maintaining low temperatures 24/7 to preserve valuable artwork, resulting in high energy bills. The Gallery initially went out to tender for a 100 kW solar power system to complement their existing 100 kW system, but after conducting a detailed energy audit, we determined that the proposed system was too small to meet their needs.

Hardy's Electrical and Solar stepped in to design and install a 150 kW solar power system tailored to their unique energy demands. By auditing the available roof space and usage patterns, we identified the need for a larger system to maximise energy production. Negotiating with the Distribution Network Service Provider (DNSP) was essential to secure additional capacity for the grid connection, enabling the installation of the larger system. Using high-performance Fronius inverters and premium solar panels, we delivered a scalable solution that ensures long-term reliability. The Gallery now has a combined 250.54 kW system powering their facility.

The new system has significantly reduced the Gallery's energy costs while supporting their commitment to sustainability. The correctly sized solution ensures the seamless operation of their critical air conditioning systems, preserving artwork in pristine condition while lowering their environmental footprint.

Fast Facts

System Size: 150.54KW

288 x 530W- Sunpower Solar Panels

3 x Tauro Fronius Inverters

Daily Production: 591 kWh

CO2 Savings: 183,277KG

Coal Offset: 1,791 tonnes