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CASE STUDY:

Tiaro & Districts Sports Club Incorporated **13kw Commercial Off-grid solar solution:**



In Early 2018 Expert Electrical was appointed by Tiaro & Districts Sports Club Incorporated (TDSC) as the solar Engineering, Procurement and Construction (EPC) contractor to deliver the 13.3KW off-grid solar PV and battery system for their clubhouse.

This custom engineered off-grid solar power system has 49 Seraphim Solar 270W modules, two SMA sunnyboy inverters, one German made Sunny Island 8kw off-grid battery inverter & one 13.8kw Lithium ion BYD B-Box Pro battery rack system. It covers the entirety of the club's roof space. Expert Electricals' Engineering team worked very closely with the Electricians, Project manager and board members to design and install the off-grid system. The system was tied in with one 8kva Diesel generator to provide backup if needed.

After TDSC was awarded the Gambling Community Benefit Fund grant they searched tirelessly for a primary contractor to ensure all requirements were met in order to receive the grant. Expert Electrical provided advice and up to date design recommendations to ensure the club received the best value for money while still ensuring a system that operated efficiently.

Previously TDSC had struggled with community events and fundraisers due to an unstable power supply from the generator. They now have the freedom to run lighting and refrigerators long into the night.