

LC Energy off-grid systems provide reliable off-grid power for remote homes in Queensland

Off-grid power for Lyons, Queensland

Lyons is an area some 40km south-west of Brisbane. The area is named after William Lyons who lived in the area in the 1880s. It is partly used for farming but is mostly undeveloped. LC Energy was approached towards the end of 2014 to design a renewable energy system for a new home that was to be built in the area. With no ready access to the grid, the owner of the property consulted with the LC Energy team to build a full set of recommendations and a quote. The owner needed the system to be reliable with 24/7 power that did not rely on a diesel generator.



The solution for the house was an LC Energy hybrid off-grid system comprising 6.2kW of roof-mounted PV panels and a 5kW inverter. Batteries—24 x 100Ah (C₁₀₀)—provide overnight storage which are fed via a 7.5 kW 48V inverter charger.

The batteries, diesel generator and associated instrumentation were installed in a container located a short distance from the house. The whole system was supplied, installed and commissioned by LC Energy within a tight schedule, and has been a success all round. The LC Energy team is able to monitor and interact with the system remotely, ensuring that even by being off-grid, the owner continues to have security and quality of supply.



LC Energy has a proven track record of successful system design employing process integration. Our knowledge of sourcing allows us to employ off-the-shelf components wherever practical in order to minimize the downtime and maintenance cost of our clients. Consequently, we deliver integrated systems at the best possible cost that will meet or exceed your production requirement, goals and expectations.



Advanced energy system design is led by Dr Andrew Dicks, industry advisor to LC Energy. You can get in touch with Andrew at LC Energy via the website

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Case Study

Off-grid power for remote households , Queensland

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