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WHERE THE SUN NEVER SETS



# NEWSLETTER

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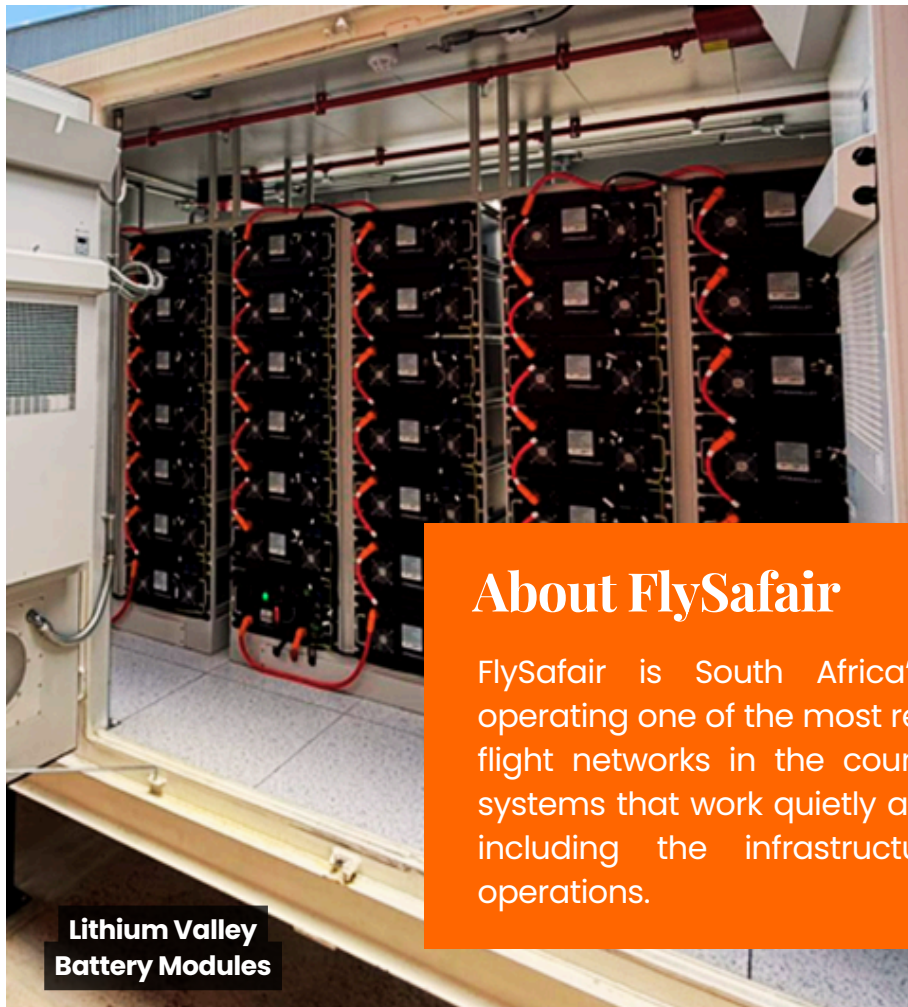
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## “Keep Your Friends Close and Your Batteries Closer”

One of the three founders of the modern day lithium ion battery – 1970

### SunRanch Solar Delivers Intelligent, Peak-Optimised Battery Storage for FlySafair at OR Tambo International Airport

In aviation, safety and reliability is not a bonus feature – it is the foundation. Systems are designed to perform safely, predictably, and repeatedly. Every component has a role, and every action is timed. At operational scale, energy infrastructure should follow the same dictum.



Lithium Valley  
Battery Modules

SunRanch Solar applied this approach in the design and delivery of two battery energy storage systems (BESS) for FlySafair. The objective was not simply resilience, but control – ensuring energy use follows a defined strategy rather than reacting to grid conditions or tariff changes.

### About FlySafair

FlySafair is South Africa’s leading low-cost airline, operating one of the most reliable and punctual domestic flight networks in the country. Its success depends on systems that work quietly and reliably in the background, including the infrastructure that supports ground operations.



## Two Systems. One Uncompromising Standard.

Rather than implementing a single centralised solution, SunRanch Solar engineered two independent, purpose-built battery systems, each aligned to the operational needs of the facility it supports.

The first installation was equipped with a 559.10 kWh lithium battery system, made up of 39 high-voltage Lithium Valley battery modules, each rated at 14.336 kWh. These modules are integrated through three Lithium Valley HV boxes and paired with a 150 kW MegaRevo battery inverter, delivering fast response times and stable power delivery.

The second installation was fitted with a 344.06 kWh lithium battery energy storage system, consisting of 24 Lithium Valley 14.336 kWh battery modules installed within two high-voltage battery boxes. A 150 kW MegaRevo battery inverter (PCS) supports this system, delivering disciplined energy behaviour.

Both systems are managed by an ENcombi ECpvX Energy Management System, which continuously monitors load demand and battery state. The EMS ensures batteries are charging during low-cost off-peak periods and discharged strategically during peak tariff windows, delivering predictable cost savings while maintaining stable performance.

Containers being delivered

## Reliability Is Not Just Staying On – It's Performing Optimally

In Aviation, reliability is measured by avoiding system stress, not by how often they are tested. FlySafair's new energy infrastructure follows the same logic: structured operation, defined behaviour, and repeatable outcomes.

For SunRanch Solar, this project reflects a simple design philosophy – build energy systems that perform quietly, control costs deliberately, and support operations without disruption. That is where reliability delivers real value.

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