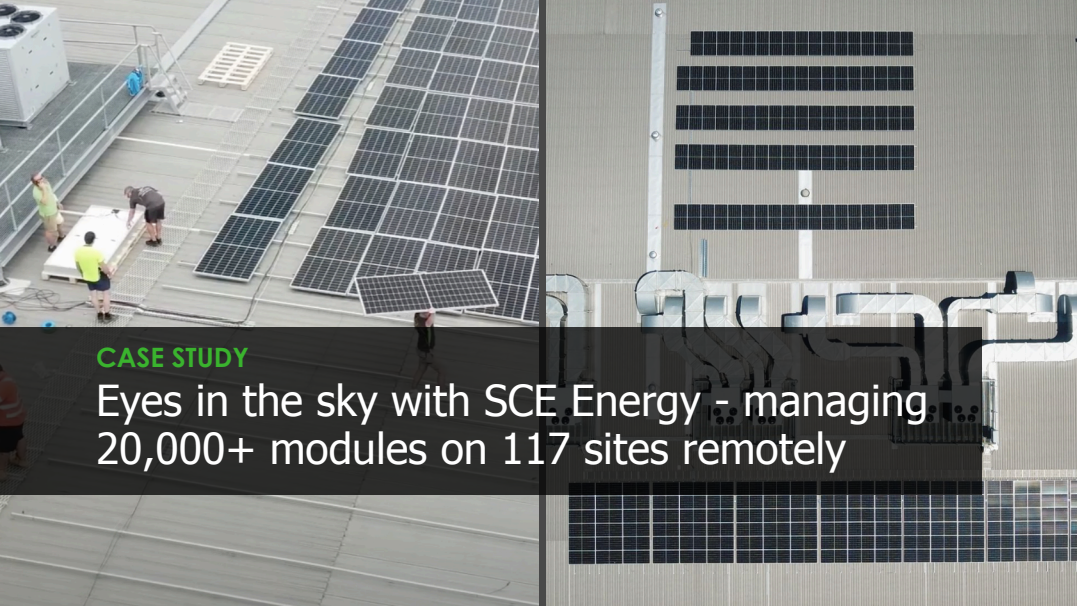




CASE STUDY

Eyes in the sky with SCE Energy - managing 20,000+ modules on 117 sites remotely



Background

As a Tigo Energy customer for more than a decade, SCE Energy Solutions uses Tigo EI Fleet Manager - a solution that's part of the Tigo Energy Intelligence platform - to monitor system performance and manage operations and maintenance (O&M) across more than 20,000 solar modules deployed in its fleet of 117 customer systems. Below is a condensed version of their journey with Tigo as a leading technology provider for their installations.

Challenges

When SCE Energy Solutions were first installing commercial solar systems in Australia more than a decade ago, they didn't use any form of Module Level Power Electronics (MLPE). However, they soon limited usable rooftop space because of shading. So they started using Tigo optimizers on a few sites to minimize the negative effects of shade on solar production.

"Our client was faced with unique challenges including large shaded areas and an irregular roof. SCE was able to combat shading with Tigo," said Jon De Martin, CEO at SCE Energy Solutions.

With Tigo optimizers (TS4-A-O), more rooftop space became economically viable. With Tigo installed on each module, SCE was able to maximize site capacity with more flexibility in the arrangement of solar modules on rooftops.

Solution

Soon, SCE Energy was installing Tigo optimizers on every solar installation. Not only did the optimizers expand their addressable market and increase output for end-users, but it helped lower costs to service their growing fleet of sites.

With a Tigo TS4 on every module, SCE Energy gets visibility to every site down to the module level through the Tigo Energy Intelligence portal. They can validate the performance of each module, visualize energy gain from optimization and importantly, customers were satisfied because they could see the results as well.

Then the team at SCE began to notice the benefits of module-level monitoring enabled by Tigo, including the ability to remotely address site issues.

INSTALLER

SCE ENERGY SOLUTIONS

INSTALLATION TYPE

100+ commercial sites

LOCATION

Australia



FEATURES

Optimization, Monitoring, Safety (rapid shutdown)



TIGO EQUIPMENT

Tigo TS4-A-O, Cloud Connect Advanced, Tigo Access Point, Energy Intelligence platform

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Tigo®



117 sites, 20k+ modules
Fully optimized with Tigo
Remotely monitored with Energy Intelligence



"The system also provides live statistics which anyone can go and see what the panels are producing at any one time," said Jon. "Our in-house support team conducts online weekly maintenance checks to ensure your system is performing to its optimum."

Results

Fast forward to today, with more than 20,000 modules under management across 117 sites, SCE Energy Solutions takes full advantage of the features enabled by Tigo EI Fleet Manager. They use it to uncover and operationalize sophisticated insights about the growing fleet of solar systems in its care to deliver the highest possible standards of performance, reliability, and efficiency to its customers.

"Tigo Fleet Manager has been a game-changer for us because it provides an unprecedented level of visibility into our customer fleet, which allows us to both deliver on the system performance commitments we have, as well as the ability to offer valuable new services," said Jon. "As our solar portfolio continues to grow, it would have been nearly impossible to consolidate the countless data points we rely on to deliver best-in-class customer service. Beyond performance monitoring, we now have such fine-grained visibility into the hardware we've deployed that it has completely transformed our operations and maintenance. Tigo EI Fleet Manager, combined with the TS4 MLPE platform, allows us to deliver superior performance as we grow into more and larger solar systems."

SCE Energy Solutions has deployed Tigo EI Fleet Manager across its entire portfolio of customer systems, including De Bortoli Winery, Reliable Foods, and the headquarters of Komatsu, Australia.

For more information on Tigo Energy Intelligence and EI Fleet Manager, visit tigoenergy.com/monitoring

About SCE Energy Solutions

SCE Energy Solutions is an award-winning sustainability business who prides itself on providing only the highest quality product and latest technologies available for all our commercial, rural and residential customers in Australia.

For more information visit sce-energysolutions.com.au

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