

CASE STUDY

Southern Cross Cable Network saves over 20% on power bills with STULZ Oceania's cooling upgrade



THE CUSTOMER

Southern Cross Cable Network (SCCN) operates a critical Trans-Pacific submarine cable network connecting Australia, New Zealand, Fiji, and Hawaii to the internet backbone in the United States. This network supports carriers, internet service providers, and corporations, making reliable operations vital.

SCCN faced aging cooling equipment—some over 20 years old—prompting an urgent need for an efficient replacement that ensured system reliability and energy savings.



THE CHALLENGE

Hidden Costs of Oversized Cooling

SCCN engaged STULZ Oceania, specialists in high-performance cooling solutions, to assess their outdated cooling system. A detailed site audit revealed the facility's existing CRAC (Computer Room Air Conditioning) units had cooling capacities far exceeding the actual heat load, resulting in inefficiencies and unnecessary costs.



Replacing the old equipment one-for-one wasn't the answer, we designed a custom solution to optimise energy consumption and reduce costs."

John Jakovcevic
Managing Director
STULZ Oceania



THE SOLUTION

Modernised Cooling for Maximum Efficiency

STULZ Oceania proposed a tailored approach, replacing oversized equipment with fewer, right-sized units optimized for SCCN's needs. The upgrade included:

Five ASD 412 AS CyberAir CRAC Units

Featuring inverter compressors for variable capacity control and EC fans for improved efficiency.

Optimised Airflow and Cooling

Reduced energy use without compromising performance.

Enhanced Design

Easier maintenance with ergonomic control displays and a compact footprint, creating space for additional solar panels.



THE RESULTS

Substantial Savings and Sustainability

The custom cooling solution exceeded expectations, delivering:

- ✓ **Over 20% Power Savings**
Reduced energy demand through efficient cooling.
- ✓ **50% Capital Cost Savings**
A significant reduction compared to like-for-like replacement.
- ✓ **Lower Carbon Emissions**
346 fewer tonnes of CO₂ annually.
- ✓ **Improved Usability and Safety**
Simplified maintenance and better workplace ergonomics.
- ✓ **Additional Capacity**
Freed-up roof space for solar panel installation.



The project has been a tremendous success, STULZ Oceania's expertise provided seamless integration, substantial cost savings, and operational improvements.

Barry Miller
Head of Facilities & Risk SCCN

