

Commercial Hub



Situated in Fremantle, Western Australia, this commercial hub relied heavily on solar energy. However, it encountered challenges in maximizing efficiency and promoting renewable energy adoption among its 15 tenants. Moreover, the complex aimed to establish an efficient billing system and transparent tariff allocation to ensure equitable energy distribution. In response, CCR has implemented a customized energy management solution to effectively tackle these issues. This solution not only optimizes solar utilization but also fosters the adoption of renewable energy while streamlining billing processes for fair energy allocation.

Aim:

- Automate the billing process, facilitate the sharing of solar power generated within the complex among tenants, and explore opportunities to maximize solar power generation and utilization.

Challenges:

- Inadequate efficiency in generating solar power.
- Encouraging tenants to transition to renewable energy is a challenge.
- Challenges in simplifying billing processes and ensuring transparent tariff allocation.

Solution:

- CCR's technology makes energy billing easier for tenants by automating processes, removing complicated calculations, and providing clear bills that show both solar and grid usage.
- Our solution promotes sustainability in the complex by creating a fair energy-sharing system among tenants based on their needs and usage patterns.
- CCR's solution offers real-time monitoring of the solar system, making it possible to track panel performance immediately and quickly address any potential issues through alerts. This helps to maximize the solar power output of the system.

Network:

Modbus, Bacnet, 4GLte, LoRa, LoRaWAN, Ble

Scope of Expansion:

- Deploy smart solutions to enhance operational management throughout the facility.
- Utilize Artificial Intelligence and Machine Learning to analyze data.
- Explore technology-driven approaches to enhance the integration of Distributed Energy Resources (DER) and potentially streamline the effective management of solar profiles.

Success Criteria:

- Significant reductions in electricity expenses
- Automated and Transparent Tenant Billing
- Enhanced energy efficiency
- Reduced failure rates and downtime



Key Outcomes	
Enhanced Energy Efficiency	Automated and Transparent Billing
Streamlined Maintenance	Significant Cost Savings and Reduced Carbon Emissions

