

Container Top Re-deployable Solar PV System

Degnan, in collaboration with Makinex, developed the Container-Top Re-Deployable Solar PV system to generate renewable energy on construction sites. The system uses shipping containers as a basefor mounting solar panels, offering a mobile, space-efficient solution that reduces emissions in urbanprojects.













ISC Verified Australian First Innovation

Objectives

To meet growing demands for carbon reduction, Degnan sought a reusable and flexiblesystem for on-site renewableenergy. Further, Degnan required a solution that couldeasily deployed on site establishments with smallfootprints. The aim was to develop a system that reduced reliance on diesel generators, lowering costs, noise, andcarbon emissions.

Results & Impact

At the Unanderra Station Upgrade, where this was fisrt used, the system provided 24% of the site's energyneeds. This innovation was shared across the industry, showcasing its potential to decarboniseconstruction.

This system supports climateaction by reducing greenhouse gas emissions and promotingsustainable energy use inconstruction. Its success positionsDegnan as a leader in low-carbon infrastructure solutions.

Features

- On-site renewable energy generation and storage
- Easy installation on shipping containers (20ft or 40ft)
- Transportable and adaptable forspace-restricted sites
- Reduced noise and carbonemissions
- Integration with local power grid
- s5kW PV system offering plug-andplay connectivity into any AC bus
- Scalable system can support units on a single circuit