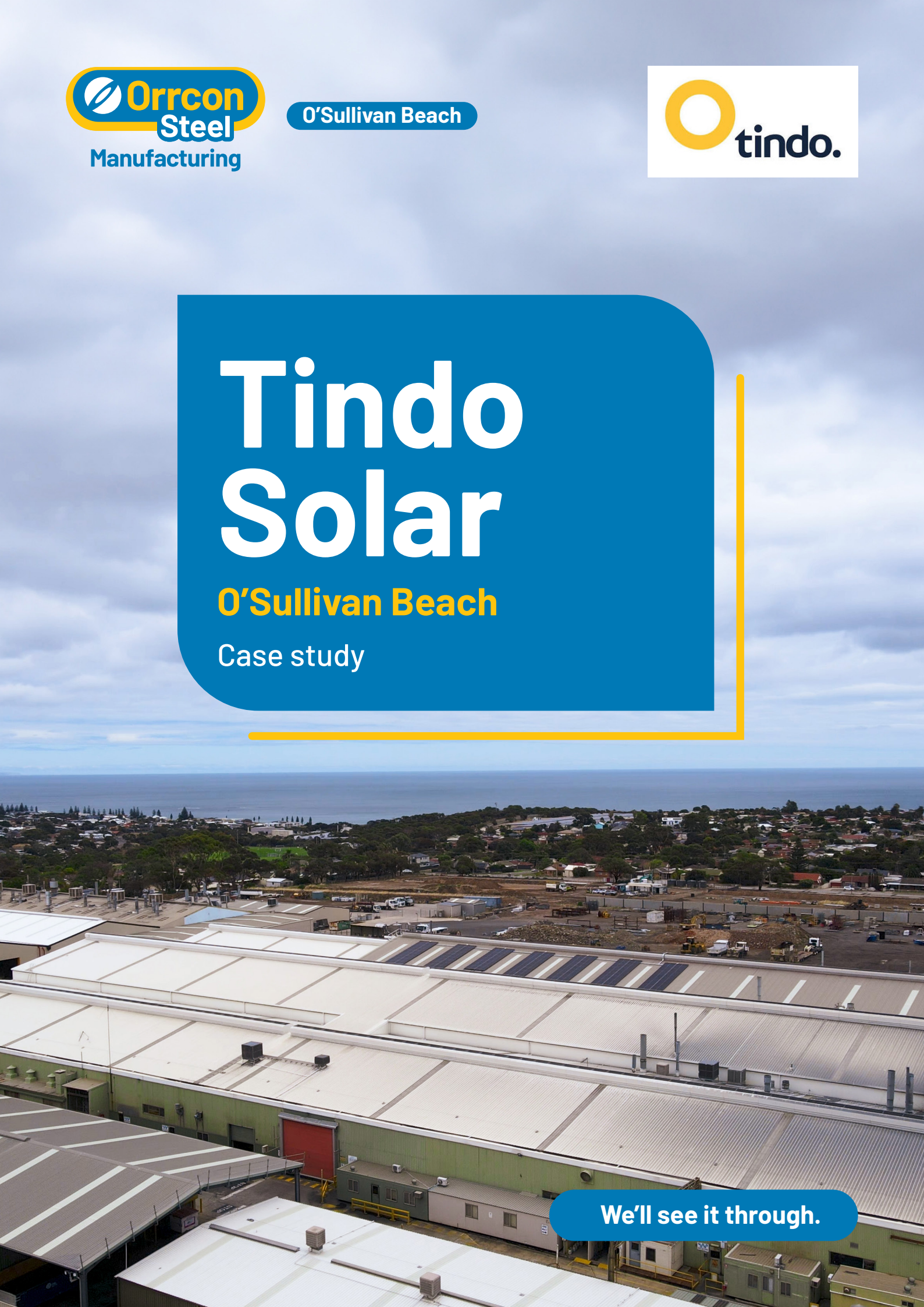


Tindo Solar

O'Sullivan Beach

Case study



We'll see it through.

Strengthening Australian Industry through Sustainable Energy

A Case Study on the Partnership between Orrcon Steel Manufacturing and Tindo Solar.



1. Executive Summary

- **The Vision:** Orrcon Steel Manufacturing sought a solar solution for its O'Sullivan Beach site in South Australia, using local expertise to secure energy efficiency and reliable support.
- **The Solution:** Tindo designed and installed a 100 kW solar system using their own premium, Australian-made panels.
- **Key Results:** Commissioned in August 2025, the system reduced total site grid electricity purchases by 7.7% by the end of February 2026, bringing the payback period down to 3.8 years.

2. Client Profile: Orrcon Steel Manufacturing

- **Industry:** Australian-made steel tube and pipe manufacturing. Location: O'Sullivan Beach, South Australia.
- **Challenge & Requirements:** Orrcon Manufacturing team analysed the site's energy usage and set a firm requirement for a 100 kW solar system.
- **Strategic Drivers:** The 100 kW cap kept the system eligible for Small-scale Technology Certificates (STCs); exceeding it would shift the project to the Large-scale Generation Certificates (LGC) program, which Orrcon Manufacturing identified as less financially beneficial. The installation also served as a feasibility study for rolling out solar across other Australian manufacturing sites.
- **The Local Mandate:** Orrcon Manufacturing prioritised fast, reliable assistance and could not afford delays. A supplier with a physical presence in South Australia was a major factor in the decision.

3. The Supplier: Tindo Solar

- **The Edge:** Founded in 2011, Tindo is Australia's only solar panel manufacturer, offering local insight, quality assurance and long-term reliability. Their South Australian base matched Orrcon's need for quick, dependable support.
- **Technology:** Tindo manufactures premium panels engineered for the toughest Australian environments, from high heat to coastal winds, combining deep research expertise, a skilled local workforce and advanced manufacturing.



4. System Specifications

The system was tailored to Orrcon Manufacturing's financial and physical parameters.

- **System Size:** 99.76 kW.
- **Panels Used:** 232 x Tindo Walara-430G3P panels.
- **Inverter:** 1 x SG110CX by Sungrow Power Supply Co., Ltd.
- **Monitoring:** Includes a 1-year subscription to Solar Analytics.

The Tindo Walara Advantage:

- **Australian Made:** Made in Australia and designed for the country's diverse weather patterns.
- **Zero Defect Manufacturing:** Every panel passes 7 quality checkpoints to ensure performance over its lifetime.
- **Durability:** A flex-minimising 35mm frame protects cells from micro-cracking in extreme weather. Resilience is proven at the Desert Knowledge Australia (DKA) Solar Centre in Alice Springs, where Tindo panels consistently rank among the highest performing.
- **Market Leading Support:** Backed by local, experienced service and technical teams.



5. The Implementation

Delivery focused on transparency, collaboration and future-proofing the O'Sullivan Beach site.

- **Consultation and Assessment:** Tindo met on site with Orrcon Manufacturing's project manager, Kingsley Barnes to clarify requirements, confirm the 100 kW size, review billing data and assess roof space.
- **Accurate Costing:** An electrical site inspection ensured precise quoting and a tailored design.
- **Ethical Transparency:** Tindo originally included a Network Protection Unit (NPU) as per SAPN requirements. When regulations changed and the NPU was no longer required for systems under 200 kVA, Tindo promptly removed the cost and informed Orrcon.
- **Collaborative Design:** Orrcon Manufacturing specified the arrangement of panels on the roof, allowing safe separation from skylights, safe access for inspection and cleaning, and room for future expansion of the array. Tindo built the design around that brief and tested it against Orrcon Manufacturing's forward plans, including new production lines, to confirm the system would not be undersized. Early involvement of Tindo's head installer and close cooperation from Orrcon Manufacturing team kept delivery smooth.

6. Technical Performance Data

Since commissioning on 2 August 2025, the system has recorded the following performance.

Metric	Recorded Performance (Aug 2025 – Feb 2026)
Total Electricity Generated	79.5 Megawatt-Hours (MWh)
Grid Electricity Avoided	75.3 MWh
Grid Reliance Reduction	7.7% reduction in total site grid electricity purchased
Environmental Impact	Equivalent to avoiding 79 tonnes of CO2 emissions, or planting 4,326 trees

For enquiries about large-diameter CHS requirements or early-stage manufacturing engagement, contact Orrcon Steel Manufacturing team.



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