



# Port Hedland Industries Council Turner River Solar Hub

**We are Fortescue**

09 SEPTEMBER 2025

# Forward Looking Statements Disclaimer



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# Our targets & decarbonisation strategy



## Our Targets

**Real Zero  
by 2030**

Scope 1 and 2  
emissions

**Net Zero  
Scope 3  
by 2040**

Addressing  
emissions  
across the  
value chain

**7.5%  
reduction  
by 2030**

Emissions  
intensity from  
steel making by  
Fortescue's  
customers from  
FY21 levels

## Scope definitions

### Scope 1

Emissions generated from the activities and operations we directly control.

### Scope 2

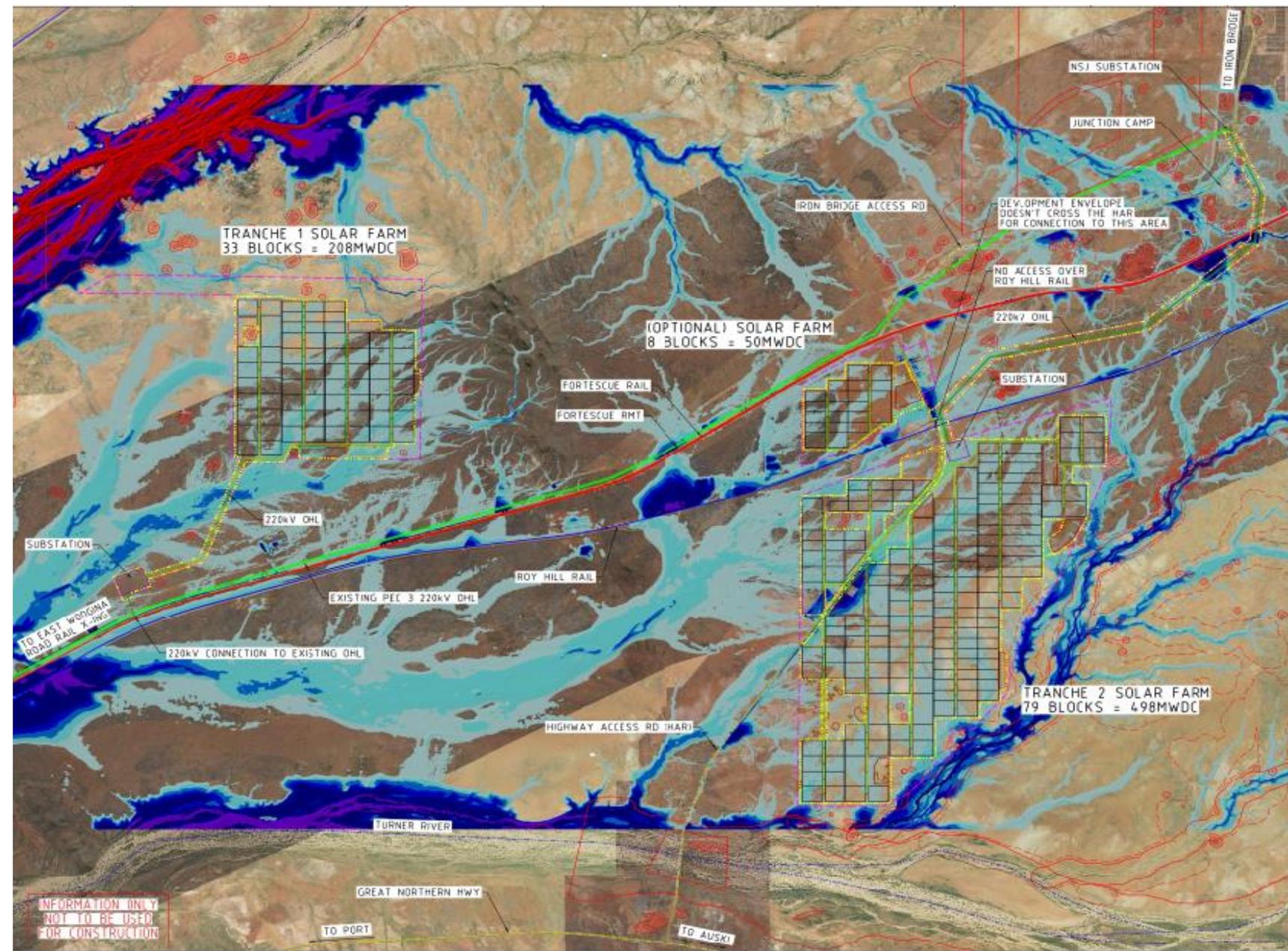
Emissions generated by third parties who supply electricity to us.

### Scope 3

Emissions that fall within our value chain but are outside our operational control.

# Project Location

- Approx. 120 km south of Port Hedland
- 25 km west of Fortescue's Iron Bridge mining operations
- Adjacent to existing Fortescue's North Star Junction 117MW solar farm
- LGA - Town of Port Hedland
- Kariyarra Native Title Determination Area
- Kangan Pastoral Lease



REF	DRG No	TITLE	REV	DATE	COMMENTED	DESCRIPTION	MD	DRN	CHK	SUP	DES	DAP	PaP	FMG

85 OF 85 COMMENTS

PROJECT NUMBER  
547PG

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**Fortescue**

NORTH



# Proposed Action Description

## Project Overview

- Project required to achieve Fortescue's 2030 decarbonisation targets.
- The Proposal has been designed to avoid major drainage, potential fauna habitat such as the rocky outcrops, avoidance of known Bilby populations.
- Development Envelope has been revised several times to avoid important heritage sites and environment features.
- ~ **700 MW (DC)** to be installed consisting of ~**100,000,000 solar arrays** across two areas (northern and southern).
- Solar array panels attached to fixed mounting structure approximately 1 – 2 m above ground
- ~ **1,110 ha** of native vegetation clearing
- **Battery storage containers** will be installed and connected adjacent to central inverters
- **Above-ground powerlines (33kV)** will be installed throughout solar farm linking inverters to central substation
- **Overhead 220kV Transmission Line** spurs connecting solar farms to existing 220 kV PEC network adjacent to North Star Junction substation
- Water Supply from **existing bores** on mainline rail
- **Supporting infrastructure** (see next slide).

## Milestones

<b>On-Ground Approval</b>	Sept 2026
<b>Construction Start</b>	Sept 2026
<b>Operation Start</b>	2029
<b>Generation design life</b>	25 – 30 years

Proposed Action Area  
= ~**1,400 Ha**  
Indicative Disturbance  
Footprint (IDF) = ~**1,100 Ha**

# Turner River Solar Hub

## Supporting Infrastructure & Facilities

The project will require supporting infrastructure and facilities during construction and operations.

### Temporary Facilities & Infrastructure

(likely during construction only)

- Concrete batching plant/s
- Fuel Storage
- Explosives storage and preparation facilities
- Maintenance, material and equipment spares (warehouses / workshops)
- Borrow Pits

### Permanent Facilities & Infrastructure

- Substations and switchyards
- Above-ground electrical reticulation (33kV) and overhead 220kV transmission line.
- BESS (Battery Energy Storage System)
- Equipment and material laydown areas
- Water storage (i.e. Turkey's nests and above ground tanks) and pipelines
- Access / maintenance tracks and fencing
- Backup Power Supply (Diesel generator)

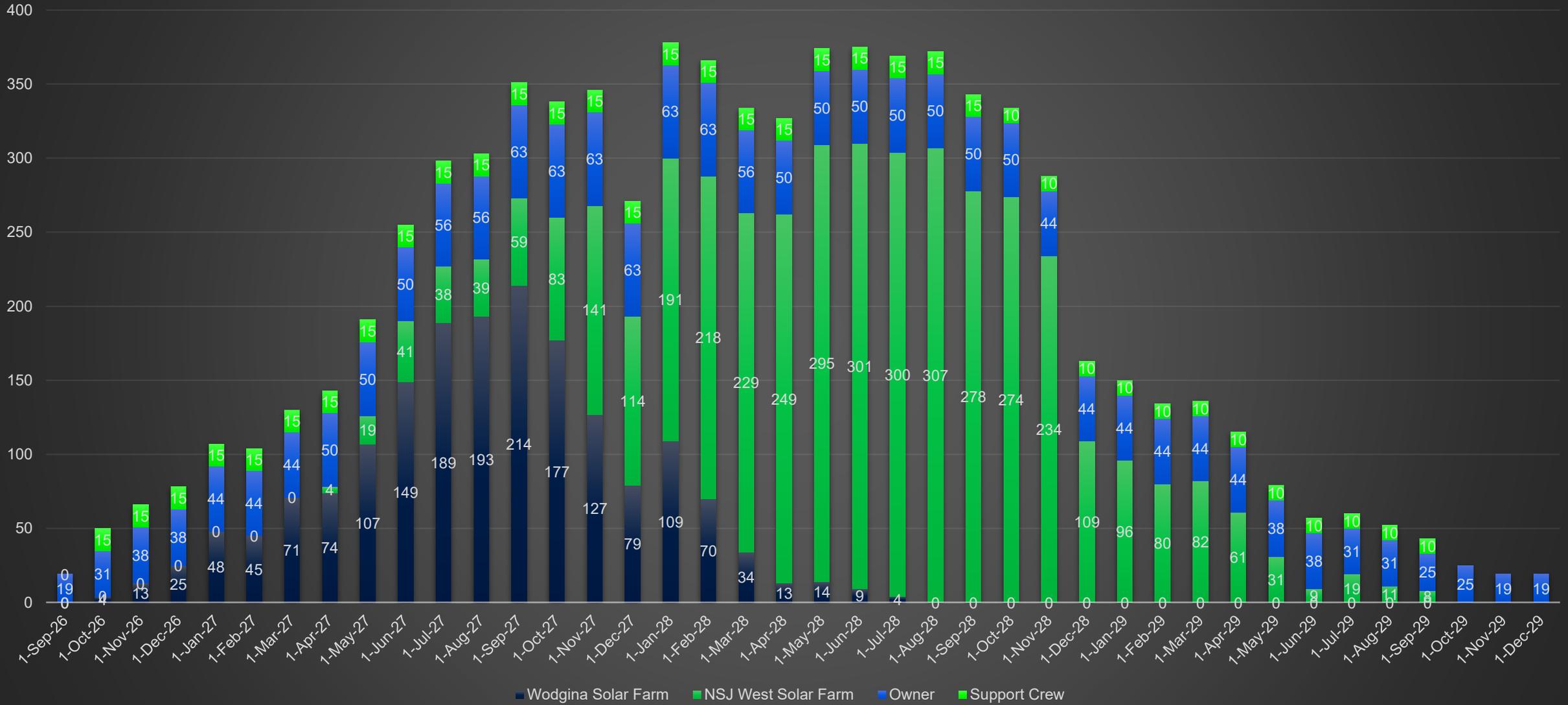
# Solar Technology



- Single Access Tracker [SAT] solar tech currently the most efficient technology
- This setup consists of one solar panel in portrait hence the name SAT1P
- SAT1P enables the use of a bi-facial panel in a fully tracked configuration



# TRSH Accommodation Histogram (draft)





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