

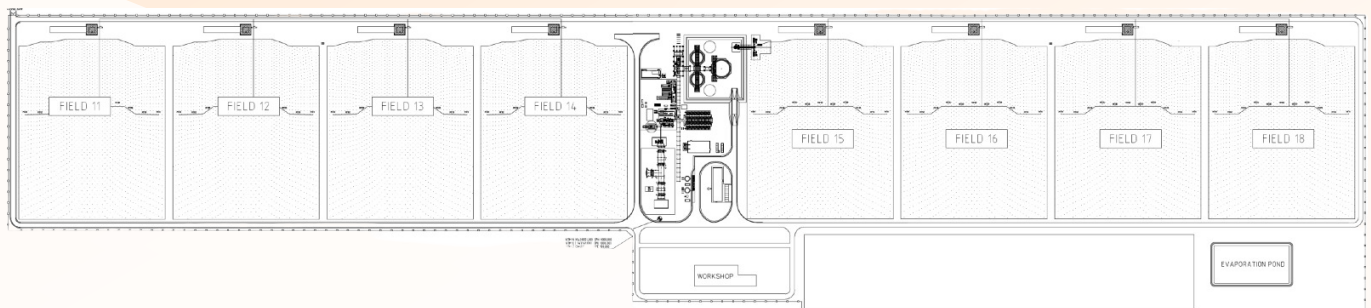
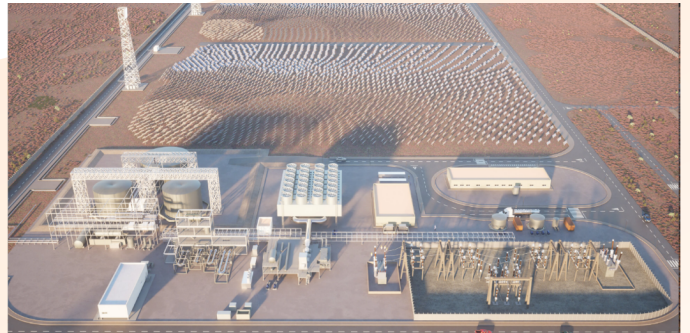
VS1 – 30MW Port Augusta CSP

Project Overview

- ▶ 8 solar arrays, 2,400 x 6.4sqm heliostats each
- ▶ 8 hours of thermal storage, dual hot tank
- ▶ Preassembled steam generation system (SGS) and turbine
- ▶ Conditionally awarded ~AUD \$65m ARENA

Target Schedule

- ▶ Final investment decision: Q3 2024
- ▶ Commercial operation: Q3 2026



Heat Transfer Fluid Pipes

- 4,500m of hot and cold pipes, mostly DN125 and DN250
- Insulated, with heat trace installed to melt sodium if pipes are cooled for shutdown

Thermal Storage Insulated

- 1 Cold Tank @ 27m dia. carbon steel
- 2 Hot Tanks @ 16m dia. stainless steel

Steam Generation System

- Design and supply modules by John Cockerill
- Power island (STG, generator and ACC)
- Design and supply modules Doosan Skoda

Interconnecting Piperack

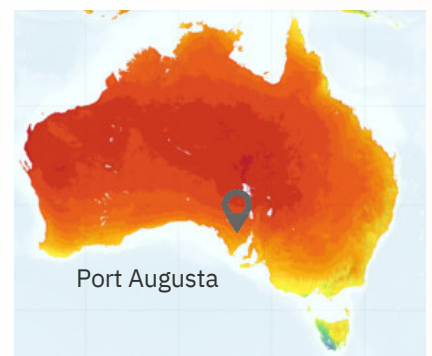
- Complete modules, pipes with electrical and instrumentation

HV

- Switchyard, predominantly by ElectraNet
- Preassembled electrical rooms

Site

- Originally Solar Reserve Aurora site
- 275kV grid connection on site boundary



SM1 – Vast Powered Solar Methanol 1 in Port Augusta

Project Overview

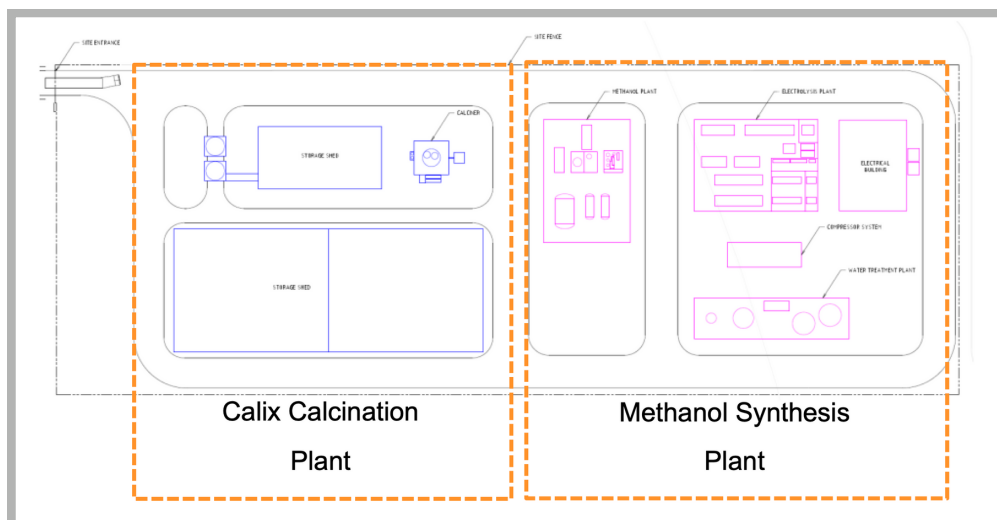
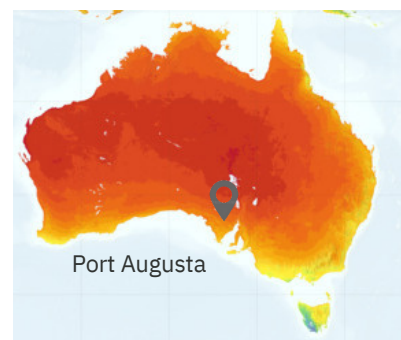
- ~7,500 T/annum renewable methanol demonstration plant
- Methanol to be used to decarbonise shipping
- Conditionally awarded ~AUD \$40m through the German-Australian HyGATE funding program

Plant Configuration

- VS1 supplies baseload heat + peak electricity, complementing grid-sourced electricity
- CO₂ from Calix green lime point source
- 10MW electrolyser for H₂ production
- 20 T/day methanol synthesis plant

Target Schedule

- Project commencement: Q1 2024
- Final Investment Decision: Q4 2024
- Commercial operations: Q1 2027



A Global and Specialised Consortium

