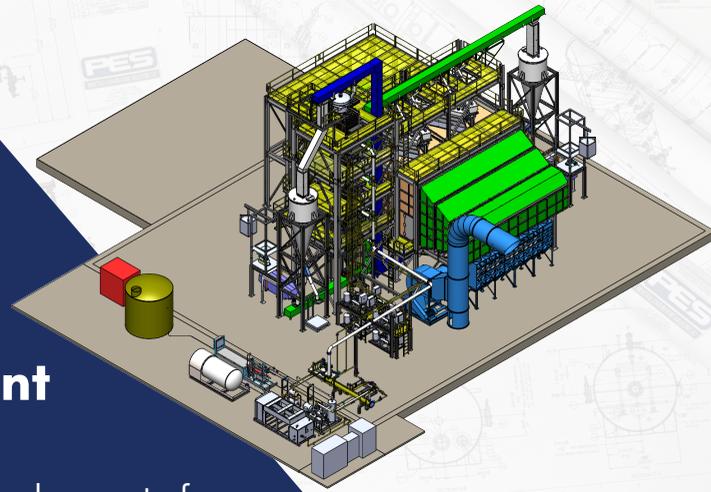


PES

PRACTICAL ENGINEERING SOLUTIONS LLC

Concept + Design + Construction



22-2990 GOO Direct Air Capture Plant

Project Overview

Practical Engineering Solutions was engaged to support the development of a Direct Air Capture plant, providing FEL 0 thru FEL 4 level engineering to advance the project from detailed definition through execution. PES finalized the plant design, supported procurement & construction activities for critical systems, and fabricated the Superstructure, Adsorber, & CO₂ Compressors, serving as an integrated engineering and delivery partner.

The project required a team capable of carrying design intent through to the field. PES provided end-to-end accountability, including engineering, procurement support, construction management, and on-site inspection services in Oregon.

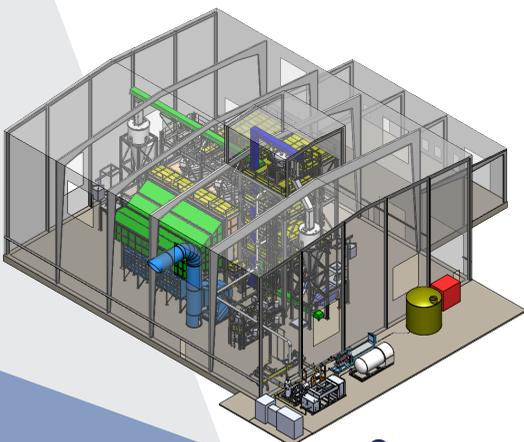
Engineering Approach

PES executed FEL 0 thru FEL 4 engineering with a focus on constructability and field execution. Scope included detailed piping design, superstructure engineering, and finalization of the overall plant layout. Coordination between ducting, structural systems, and the metal building was prioritized to ensure proper load paths, access, and installation sequencing.

Design decisions were driven by real-world installation constraints, reducing ambiguity and minimizing risk of field rework. Continuity from FEL development through final design ensured alignment between project objectives and execution requirements.

Execution & Delivery

PES completed the final design and managed procurement and construction activities for the ductwork, superstructure, and metal building systems. Construction management services were supported by on-site inspection in Oregon, allowing rapid issue resolution and verification of compliance with design intent.



PES Deliverables:

- FEL 0 - 4
- Process Design & Control Narrative
- Design & Engineering of Foundation, Superstructure, Piping, PEMB, & Compressor Equipment
- Fabrication of Superstructure, PEMB, Adsorber, & CO₂ Compressor
- Engineering, Procurement, Construction, & Inspection

Project Timeline:

- 21 Months

Estimated Total Installation Cost (TIC): \$13,000,000

The project was delivered on schedule and within the approved budget.



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