



ICAO

ENVIRONMENT



2023 ICAO STOCKTAKING



SAF-LAB Exhibition



11 to 13 JULY 2023

Montréal, ICAO Headquarters



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Product Development Manager
1PointFive

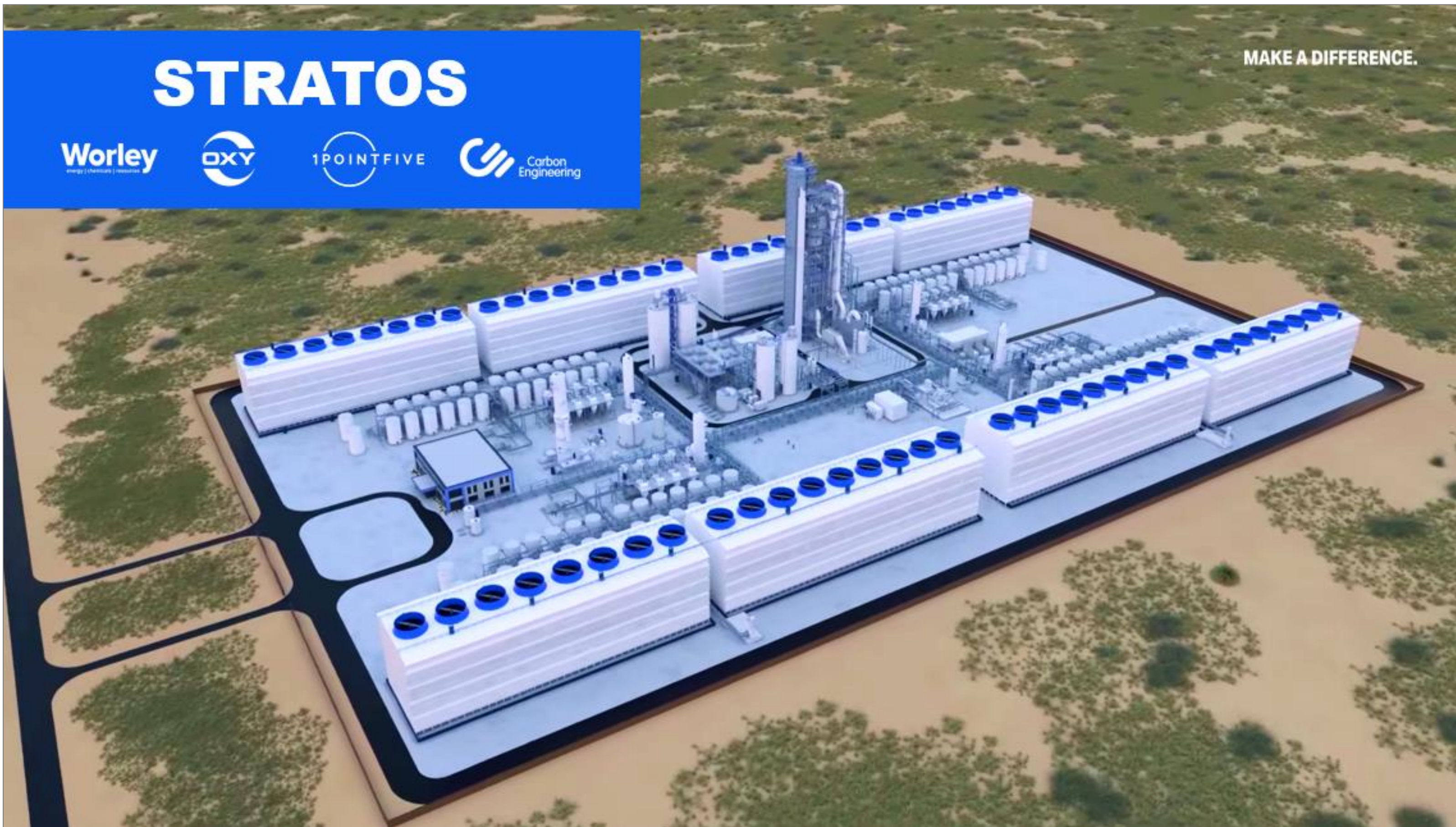
**Project Stratos – A Direct Air Capture
Plant**

STRATOS

Worley
energy | chemicals | resources



MAKE A DIFFERENCE.





MAKE A DIFFERENCE.

DEPLOYING DAC AT MEGATON SCALE

Commercial-scale removal capacity will be achieved through modularity and repeatability of air contactors and pellet reactors, and use of industrial-scale equipment in the centralized processing facility.

INNOVATION CENTRE

Air contactor design: ~1,000 tonnes per annum



FULL-SCALE AIR CONTACTOR



FULL-SCALE PELLET REACTOR

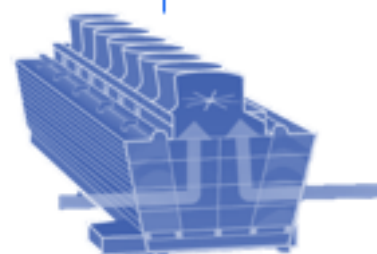
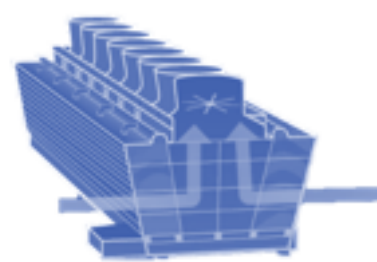


SMALL-CAPACITY PROCESSING EQUIPMENT AT ~1/10TH THE SCALE

- Calciner
- Slaker

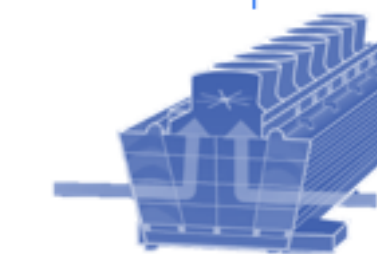
PLANNED COMMERCIAL SCALE PLANT

Annual CO₂ capture capacity: 1,000,000 tonnes per annum



MULTIPLE IDENTICAL AIR CONTACTORS AND PELLET REACTORS

CENTRALIZED PROCESSING EQUIPMENT USED AT INDUSTRIAL-SCALE ELSEWHERE



MODULAR & REPEATABLE

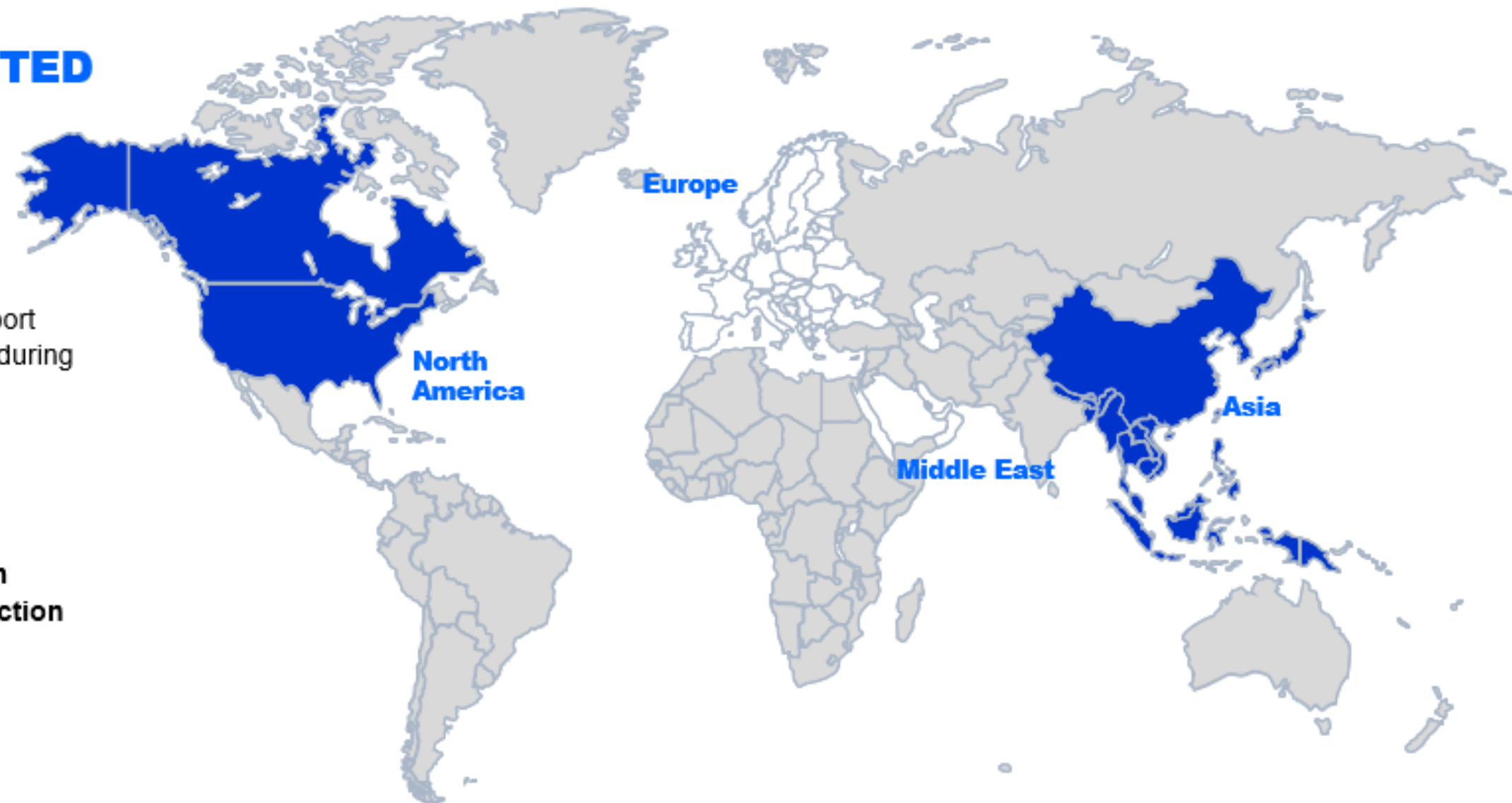
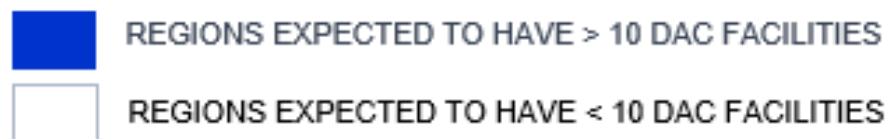
DAC DEVELOPMENT SCENARIO



UP TO 100 DIRECT AIR CAPTURE PLANTS EXPECTED TO BE ONLINE BY 2035

We plan to build Direct Air Capture facilities in regions that meet key criteria:

- Have **public policy and incentives** that support CO₂ removals in place today or are expected during this development timeframe
- Show **growing demand for carbon removal credits or low-carbon fuels**
- Possess scalable business attributes such as **geologic storage, synthetic fuel production inputs and zero-emission electricity production**
- Have sustainable development goals





PROGRESS TOWARD STRATOS

- Deploying Carbon Engineering's DAC technology at commercial scale
- Stratos is currently under construction in Ector County Texas
- Selected Worley as EPC for Stratos project
- Anticipated operational mid-2025





1POINTFIVE

MAKE A DIFFERENCE.

Artist Rendering of Stratos

Thank You



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