

11.08.23

# Third Quarter Earnings Conference Call

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ZERO IN™



# CAUTIONARY STATEMENTS

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This presentation includes non-GAAP financial measures. Where available, reconciliations to comparable GAAP financial measures can be found on the Investor Relations section of Occidental’s website at [www.oxy.com](http://www.oxy.com).

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# OUTLINE

Third Quarter Highlights

DAC Development and Market Update

Financials

Closing Comments



*Artist Rendering of DAC*

# DAC DEVELOPMENT DRIVERS

## Technology

- Carbon Engineering (CE) DAC technology offers revolutionary scalability
- CE Innovation Centre identifying improvements for DAC 1+
- Synergies across Carbon Engineering, Oxy Major Projects, and OxyChem

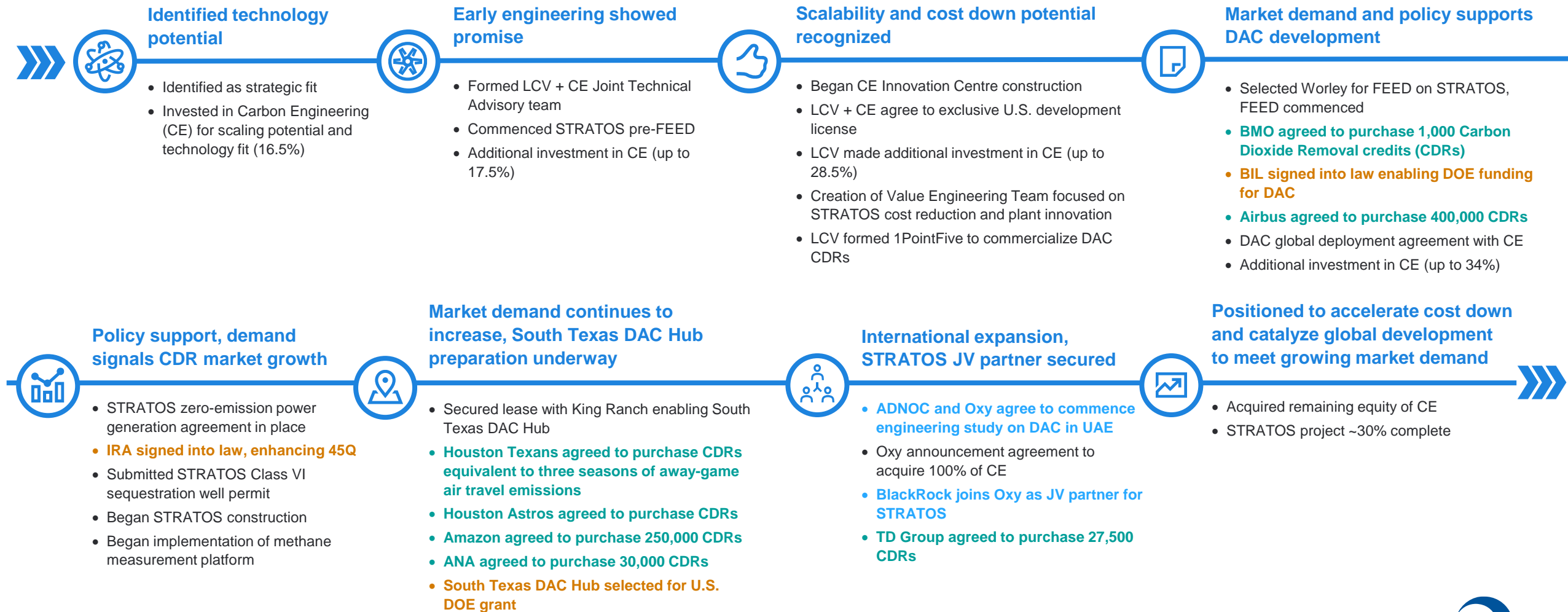
## Partnerships

- U.S. passed Bipartisan Infrastructure Law enabling Department of Energy DAC grant
- Voluntary market leaders purchased CDRs supporting early development
- BlackRock investment in STRATOS through joint venture
- DAC global development partnerships advancing

## Market

- DAC CDRs offer economic addition to SAF and other heavy duty low carbon fuel portfolios
- Inflation Reduction Act (IRA) 45Q enhancements and recognition for DAC carbon removals
- Compliance markets advancing; U.N. ICAO CORSIA to reduce emissions in aviation

# ADVANCEMENT OF DAC+S TECHNOLOGY, PARTNERSHIPS, AND MARKET



NOTE: DAC+S (DIRECT AIR CAPTURE AND SEQUESTRATION); FEED (FRONT END ENGINEERING DESIGN); BIL (BIPARTISAN INFRASTRUCTURE LAW)

Offtake Agreement

Partnerships

Policy



# INNOVATION AND PARTNERSHIPS EXPECTED TO REDUCE COST OF CAPTURE

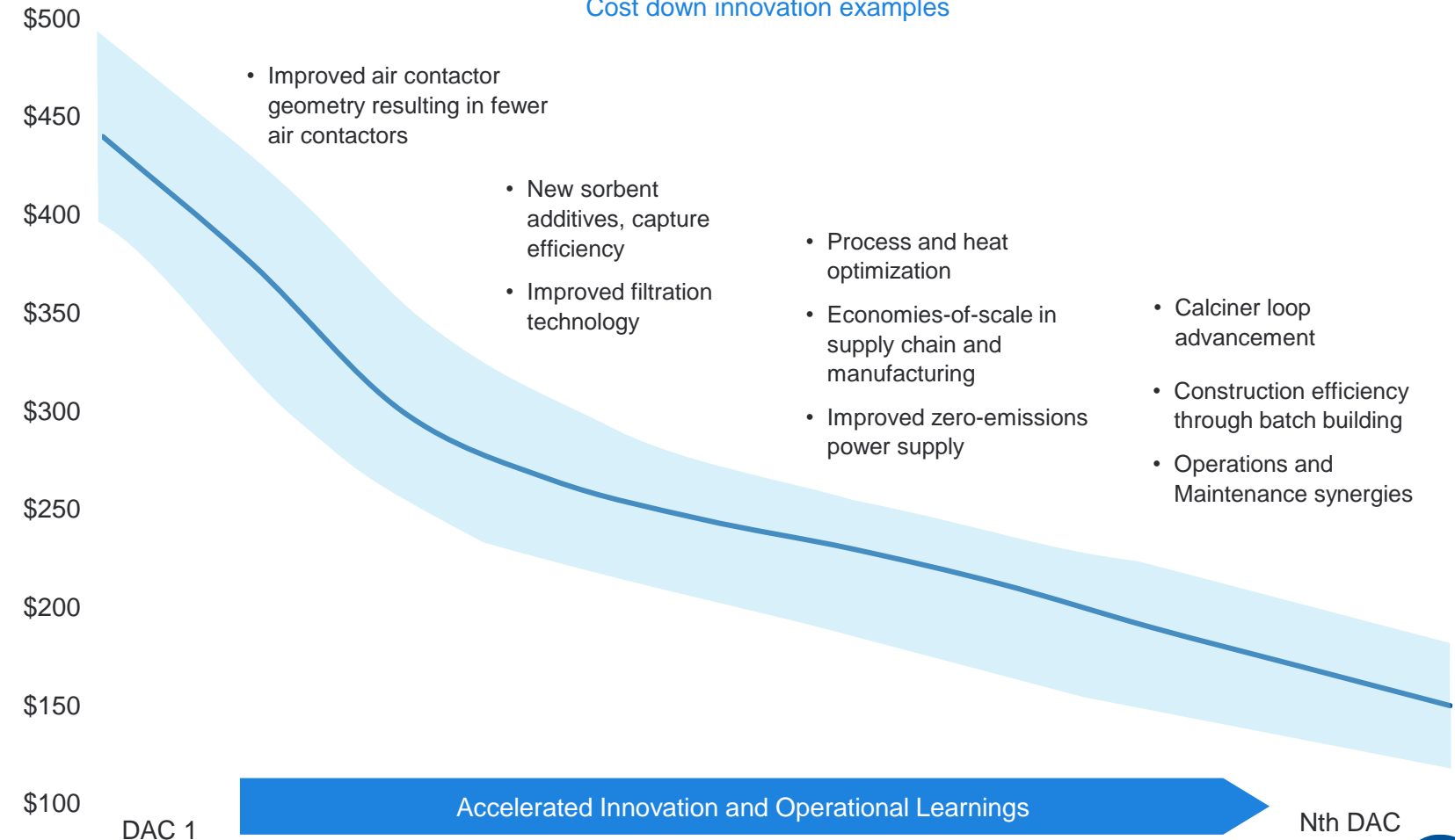
## Key technology innovations, manufacturing and supply chain efficiencies to reduce cost of capture

- Increase capture efficiency
- Reduce power consumption
- Shared infrastructure across plants
- Optimize operations and maintenance
- Utilize next generation chemical processes

Cost of Capture<sup>1</sup>

## Illustrative DAC Cost Reduction (\$/t)

Cost down innovation examples



Accelerated Innovation and Operational Learnings

<sup>1</sup>COST OF CAPTURE INCLUDES CAPITAL, OPERATING EXPENSES, TRANSPORT AND STORAGE COSTS AND EXCLUDES COST OF FINANCING; SEE ADDITIONAL ASSUMPTIONS ON THE ILLUSTRATIVE DAC ECONOMIC MODELING SLIDE

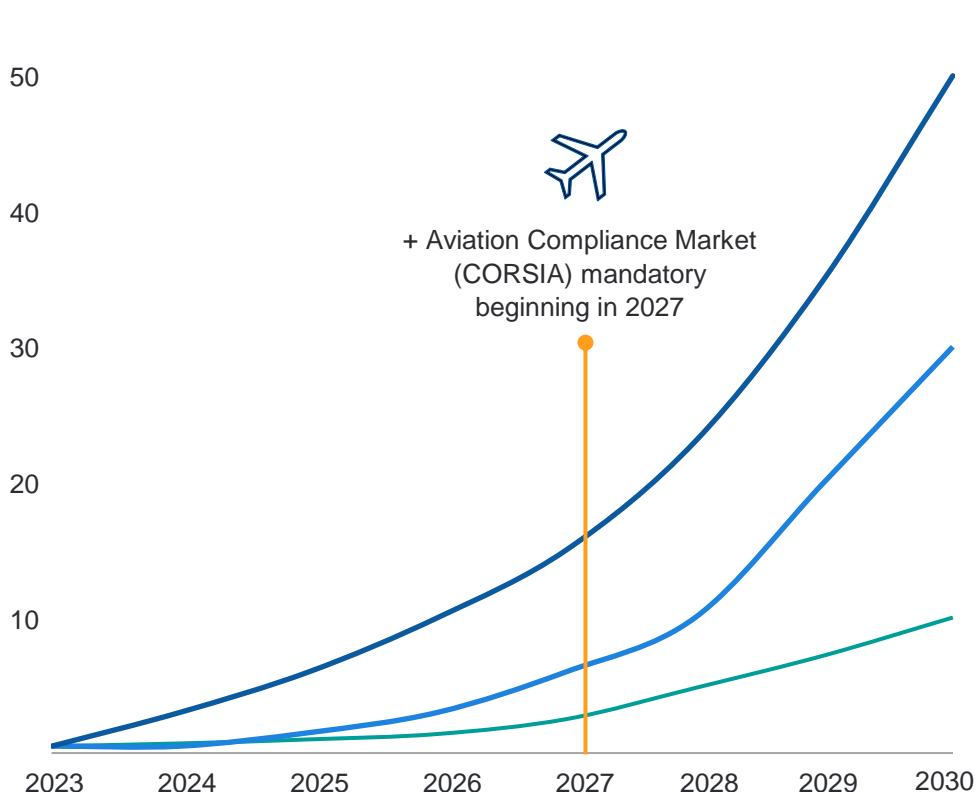




# DAC CDR VOLUNTARY MARKET DEMAND SCENARIOS

As DAC costs reduce, CDR market demand and partnership opportunities expected to increase

DAC CDR demand (Mtpa)



DAC CDR: \$300/t

**50 Mtpa ± 10**

DAC: ~6-8% of corporate carbon credit portfolio

DAC CDR: \$400/t

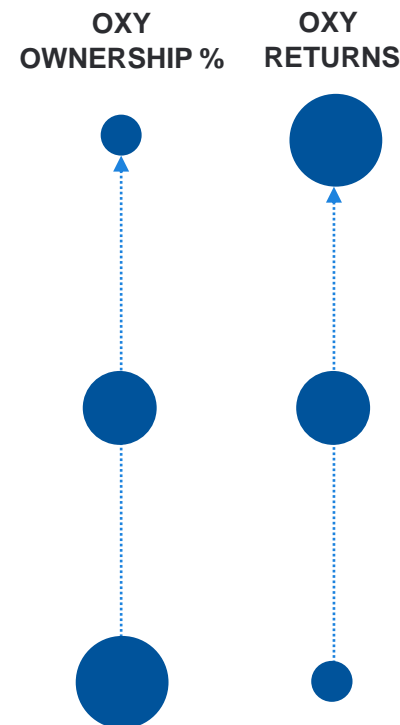
**30 Mtpa**

DAC: ~4-6% of corporate carbon credit portfolio

DAC CDR: \$450/t+

**10 Mtpa**

DAC: <2% of corporate carbon credit portfolio



- Accelerated cost reduction expected to drive CDR market expansion
- Market demand and economics to drive development pace
- Strategic partnerships to catalyze development
- Capital structure flexibility maximizes Oxy value
- DAC 2+ to meet return threshold for FID

**Scenario Assumptions**

- Total decarbonization: 9Gt based on published corporate commitments by 2030
- Carbon credit share of corporate decarbonization: 8-10%
- DAC carbon credit share is a function of DAC price to stay within estimated avg corporate carbon credit portfolio avg price in 2030: ~ \$80/t<sup>1</sup>

NOTE: FID (FINAL INVESTMENT DECISION)

<sup>1</sup>BCG, COMPANY DATA

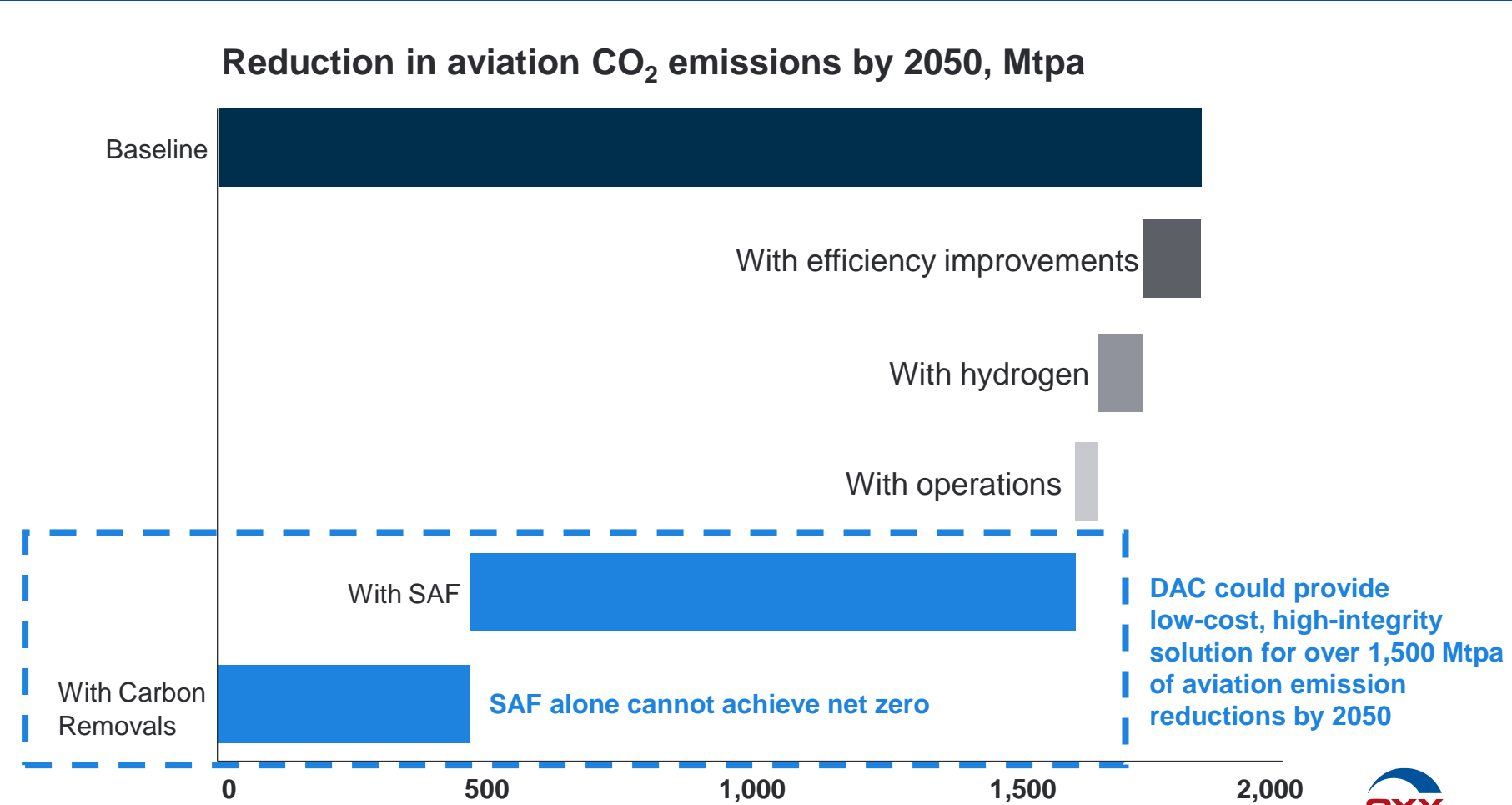


DAC CDRs EXPECTED TO BE ECONOMIC ALTERNATIVE TO SAF

Beginning in 2027, CORSIA requires airlines to offset their emissions<sup>1</sup>

- SAF is only a partial solution, DAC CDRs enable net zero
- DAC CDRs expected to lower overall cost of aviation decarbonization
- DAC CDRs are an alternative to SAF
- DAC captured CO<sub>2</sub> may be used to create SAF in the future

CO<sub>2</sub> abatement using SAF costs ~\$750/t<sup>2</sup>  
DAC CDRs expected to cost less than abatement using SAF



SOURCE: IATA SUSTAINABILITY AND ECONOMICS, ICAO LTAG SAF AVAILABILITY SCENARIOS  
<sup>1</sup>DIFFERENCE BETWEEN ANNUAL EMISSIONS AND A BASELINE OF 85% OF 2019 EMISSIONS <sup>2</sup>SEE APPENDIX SLIDE COST OF CO<sub>2</sub> REDUCTION USING SAF





# DAC 1 & 2 DEVELOPMENT UPDATE

## STRATOS (DAC 1)

- JV partner<sup>1</sup> secured
- Project ~30% complete
- Expected commercially operational mid-2025
- Class VI well permit applications filed with U.S. EPA

## SOUTH TEXAS DAC HUB (DAC 2)

- Selected to receive U.S. DOE grant, funding to be announced 2024
- **DAC 2 FEED underway**
- Stratigraphic well testing in progress



NOTE: EPA (ENVIRONMENTAL PROTECTION AGENCY)  
<sup>1</sup>INVESTED THROUGH A FUND MANAGED BY BLACKROCK'S  
DIVERSIFIED INFRASTRUCTURE BUSINESS



# DAC INVESTMENT PRINCIPLES

## Returns Focused

- Developing competitive-returns business with cash flow stability
- DAC 2+ to meet return threshold for FID

## Demand-Driven Development

- Market demand to drive development pace
- Low-carbon program net capital expected to be ≤\$600 MM through 2026

## Accelerate Cost Reductions

- Innovate and improve technologies to accelerate cost reductions
- Advance operating and maintenance improvements for life-of-plant

## Capital Flexibility

- Capital support and partnerships necessary for successful growth
- Managing investments between R&D and project development maximizes returns

## Strategic Partnerships

- Deploy DAC business and technology globally with strategic partners
- DAC licensing model improves development options and value
- Compliance markets expected to complement voluntary markets, providing scale and certainty



## APPENDIX

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**Financial Information**

**Oil & Gas Update**




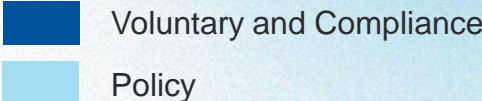
**Asset Overview**

**LCV Overview**





# DAC COMMERCIAL DEVELOPMENT ASSUMPTIONS

	DAC 1	DAC 2	Nth	
REVENUE				
CDR PRICE <sup>1</sup>	\$400 – 630/t	\$400 – 630/t	Value Based	<u>IRA 45Q Enhancements</u>
45Q CREDIT <sup>2</sup>	\$180/t	\$180/t	Policy/Scope Driven	DAC to EOR: \$130/t
				DAC to Sequestration: \$180/t
				Co-Captured CO <sub>2</sub> to Sequestration: \$85/t
COST <sup>3</sup>	\$400 – 500/t	\$325 – 450/t	\$125 – 200/t	

<sup>1</sup>TARGETED REVENUE RANGE POINT FORWARD    <sup>2</sup>LIMITED TO FIRST 12 YEARS BASED ON CURRENT POLICY    <sup>3</sup>COST OF CAPTURE





DIRECT AIR CAPTURE

ILLUSTRATIVE DAC ECONOMIC MODELING

CASH FLOW PROFILE

- DAC 1 capital cost<sup>1</sup> estimated at ~\$1.3 B for first 500k tonne per annum train, scaling capital by 1.7x for a 1 MTPA DAC plant
- Construction build-time less than 3 years
- Current support scenario with 45Q includes 12 years of tax credit generation
- Other revenue sources for the entire operating life of plant expected to be 25 years

REVENUE

Carbon removal credit volumes

- Approximately 90% of captured CO<sub>2</sub> will be available for CDR sales
- Capture efficiency expected to improve over time

Carbon removal credit pricing and incentives

- Government policy support includes 45Q tax credits at current rates of \$130 / \$180 per tonne for Use / Dedicated Sequestration
- Other revenue sourced from voluntary and compliance market purchase agreements
- CO<sub>2</sub> generated in DAC process will also be captured and sequestered, generating point-source 45Q credits

COSTS

DAC 1 & 2 cost of capture expected to be in the range of \$400 to \$500 per tonne and \$325 to \$450 per tonne, respectively

- Capital costs and operating costs approximates 25% / 75% of DAC 1 cost of capture and 20% / 80% of DAC 2 cost of capture

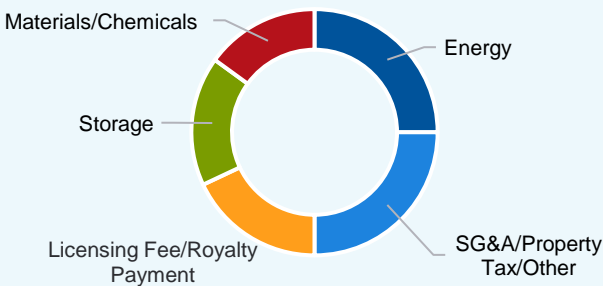
Falling per unit cost of capture consistent with similar historical technology learning curves

- Capital costs and operating costs approximates 20% / 80% of Nth plant cost of capture

Capital costs percentage of total:

- Air Contactors: 40%
- Centralized Processing: 40%
- Utilities & Infrastructure: 20%

Operating costs percentage of total of N<sup>th</sup> Plant



COMMERCIAL SUMMARY

	CDR REVENUE	45Q CREDIT	COST <sup>2</sup>
DAC 1	\$400 – 630/t	\$180/t	\$400 – 500/t
DAC 2	\$400 – 630/t	\$180/t	\$325 – 450/t
Nth	Value Based	Policy/Scope Driven	\$125 – 200/t

45Q Tax Credit Assumptions:

- DAC to EOR: \$130/t
- DAC to Sequestration: \$180/t
- Co-Captured CO<sub>2</sub> to Sequestration: \$85/t

<sup>1</sup>CAPITAL COST ESTIMATE EXCLUDES HUB INFRASTRUCTURE    <sup>2</sup>COST OF CAPTURE  
NOTE: COST OF CAPTURE INCLUDES CAPITAL, OPERATING EXPENSES, TRANSPORT AND STORAGE COSTS AND EXCLUDES COST OF FINANCING; TONNE (T)

# COST OF CO<sub>2</sub> REDUCTION USING SAF

44

*DAC CDRs expected to be more economic than SAF*

	<u>Value</u>	<u>Units</u>	<u>Calculation</u>	<u>Sources / Notes</u>
SAF price premium over conventional jet fuel	2,300	\$ / tonne	A	Assumption: January 2022 through September 2023 estimated average. ( <a href="#">Argus Whitepaper</a> ).
Life cycle CO <sub>2</sub> emissions of 1 tonne of:				
Conventional jet fuel	3.83	t CO <sub>2</sub> / t fuel	B	Calculation: Emission factor 89 gCO <sub>2</sub> e / MJ ( <a href="#">ICAO</a> ) multiplied by energy density of fuel 43 MJ / kg ( <a href="#">U.S. DOE</a> ) divided by 1,000 kg / t.
SAF	0.77	t CO <sub>2</sub> / t fuel	C	Calculation: Mean life cycle emission value for SAF produced from tallow, used cooking oil, and corn oil from CORSIA Default Life Cycle Values 18 gCO <sub>2</sub> e / MJ ( <a href="#">ICAO</a> , Table 2) multiplied by energy density of fuel 43 MJ / kg ( <a href="#">U.S. DOE</a> ) divided by 1,000 kg / t.
CO <sub>2</sub> emissions abated using SAF	3.06	t CO <sub>2</sub> abated / t fuel	B - C = D	Calculation: Use of SAF instead of conventional jet fuel results in a CO <sub>2</sub> emissions reduction of 3.06 tonnes of CO <sub>2</sub> per tonne of fuel burned.
<b>Cost of CO<sub>2</sub> reduction using SAF is ~ \$750 / tonne</b>			A / D	Calculation: The SAF price premium over conventional jet fuel divided by the CO <sub>2</sub> emissions abated by using SAF instead of conventional jet fuel.
<b>DAC CDRs provide an economic alternative to SAF</b>				



# OXY TO UTILIZE CLEAN ENERGY GENERATED BY NET POWER'S FIRST UTILITY SCALE PLANT

- Oxy has ~42% equity ownership in NET Power Inc. (NYSE: NPWR)
- Expected to be the primary offtaker of clean energy generated by NET Power's first commercial plant using a transformational technology that inherently captures nearly all emissions
- FEED started in 2023, expected to be operational in 2026
- Plant to be located near Oxy Permian operations and generate ~300 MW of clean 24/7 dispatchable power
- Expected to significantly decarbonize Permian oil and gas operations
- ~860K tonnes/year of captured CO<sub>2</sub>



