# Third Quarter Earnings Conference Call



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## OUTLINE

Third Quarter Highlights

DAC Development and Market Update

Financials

**Closing Comments** 





## DAC DEVELOPMENT AND MARKET UPDATE DAC DEVELOPMENT DRIVERS

Technology	<ul> <li>Carbon Engineering (CE) DAC technology offers revolutionary scalability</li> <li>CE Innovation Centre identifying improvements for DAC 1+</li> <li>Synergies across Carbon Engineering, Oxy Major Projects, and OxyChem</li> </ul>
Partnerships	<ul> <li>U.S. passed Bipartisan Infrastructure Law enabling Department of Energy DAC grant</li> <li>Voluntary market leaders purchased CDRs supporting early development</li> <li>BlackRock investment in STRATOS through joint venture</li> <li>DAC global development partnerships advancing</li> </ul>
Market	<ul> <li>DAC CDRs offer economic addition to SAF and other heavy duty low carbon fuel portfolios</li> <li>Inflation Reduction Act (IRA) 45Q enhancements and recognition for DAC carbon removals</li> <li>Compliance markets advancing; U.N. ICAO CORSIA to reduce emissions in aviation</li> </ul>

### DAC DEVELOPMENT AND MARKET UPDATE

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



Identified as strategic fit

potential

**Identified technology** 

 Invested in Carbon Engineering (CE) for scaling potential and technology fit (16.5%)



- Advisory team
- Commenced STRATOS pre-FEED
- Additional investment in CE (up to 17.5%)

### Scalability and cost down potential recognized

- Began CE Innovation Centre construction
- LCV + CE agree to exclusive U.S. development license
- LCV made additional investment in CE (up to 28.5%)
- Creation of Value Engineering Team focused on STRATOS cost reduction and plant innovation
- LCV formed 1PointFive to commercialize DAC **CDRs**

### Market demand and policy supports **DAC** development

 Selected Worley for FEED on STRATOS, FEED commenced

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- BMO agreed to purchase 1,000 Carbon **Dioxide Removal credits (CDRs)**
- BIL signed into law enabling DOE funding for DAC
- Airbus agreed to purchase 400,000 CDRs
- DAC global deployment agreement with CE
- Additional investment in CE (up to 34%)

Positioned to accelerate cost down and catalyze global development to meet growing market demand

- · Acquired remaining equity of CE
- STRATOS project ~30% complete

- **Policy support, demand** signals CDR market growth
- STRATOS zero-emission power generation agreement in place
  - IRA signed into law, enhancing 45Q
  - Submitted STRATOS Class VI sequestration well permit
- Began STRATOS construction
- Began implementation of methane measurement platform

### Market demand continues to increase, South Texas DAC Hub preparation underway

- · Secured lease with King Ranch enabling South Texas DAC Hub
- Houston Texans agreed to purchase CDRs equivalent to three seasons of away-game air travel emissions
- Houston Astros agreed to purchase CDRs
- Amazon agreed to purchase 250,000 CDRs
- ANA agreed to purchase 30,000 CDRs
- South Texas DAC Hub selected for U.S. **DOE grant**

### International expansion, **STRATOS JV** partner secured

- ~7 ADNOC and Oxy agree to commence engineering study on DAC in UAE
- Oxy announcement agreement to acquire 100% of CE
- BlackRock joins Oxy as JV partner for **STRATOS**
- TD Group agreed to purchase 27,500 **CDRs**

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

 $\mathcal{O}_{\mathcal{A}}$ 

Offtake Agreement

Partnerships Policv







## DAC DEVELOPMENT AND MARKET UPDATE 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



<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 DEVELOPMENT AND MARKET UPDATE DAC CDR VOLUNTARY MARKET DEMAND SCENARIOS

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



### DAC DEVELOPMENT AND MARKET UPDATE 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

 $CO_2$  abatement using SAF costs ~ $$750/t^2$ DAC CDRs expected to cost less than abatement using SAF

Reduction in aviation CO<sub>2</sub> emissions by 2050, Mtpa



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 CO2 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 DEVELOPMENT AND MARKET UPDATE DAC INVESTMENT PRINCIPLES

Returns Focused	<ul> <li>Developing competitive-returns business with cash flow stability</li> <li>DAC 2+ to meet return threshold for FID</li> </ul>		
Demand-Driven Development	<ul> <li>Market demand to drive development pace</li> <li>Low-carbon program net capital expected to be ≤\$600 MM through 2026</li> </ul>		
Accelerate Cost Reductions	<ul> <li>Innovate and improve technologies to accelerate cost reductions</li> <li>Advance operating and maintenance improvements for life-of-plant</li> </ul>		
Capital Flexibility	<ul> <li>Capital support and partnerships necessary for successful growth</li> <li>Managing investments between R&amp;D and project development maximizes returns</li> </ul>		
Strategic Partnerships	<ul> <li>Deploy DAC business and technology globally with strategic partners</li> <li>DAC licensing model improves development options and value</li> <li>Compliance markets expected to complement voluntary markets, providing scale and certainty</li> </ul>		

OXY



## APPENDIX

Financial Information Oil & Gas Update Asset Overview LCV Overview



## **DAC COMMERCIAL DEVELOPMENT ASSUMPTIONS**





## 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

### **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

### 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



### <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**

## DAC CDRs expected to be more economic than SAF

	<u>Value</u>	<u>Units</u>	<b>Calculation</b>	Sources / Notes	
SAF price premium over conventional jet fuel	2,300	\$ / tonne	А	Assumption: January 2022 through September 2023 estimated average. (Argus Whitepaper).	
Life cycle CO <sub>2</sub> emissions of 1 tonne of:				Calculation: Emission factor 89 gCO <sub>2</sub> e / MJ ( <u>ICAO</u> ) multiplied by energy density of fuel 43 MJ / kg ( <u>U.S.</u> <u>DOE</u> ) divided by 1,000 kg / t.	
Conventional jet fuel	3.83	t CO <sub>2</sub> / t fuel	В	Calculation: Mean life cycle emission value for SAF	
SAF	0.77	t CO <sub>2</sub> / t fuel	С	produced from tallow, used cooking oil, and corn oil from CORSIA Default Life Cycle Values 18 gCO <sub>2</sub> e / MJ ( <u>ICAO</u> , Table 2) multiplied by energy density of fuel 43 MJ / kg ( <u>U.S. DOE</u> ) 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		
Cost of CO <sub>2</sub> reduction		Calculation: Use of SAF instead of conventional jet fuel results in a $CO_2$ emissions reduction of 3.06 tonnes of $CO_2$ per tonne of fuel burned.			
~ \$750 / tonne DAC CDRs provide an economic alternative to SAF			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.	



## 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>





