Svante

Technology Scale-up & Commercialization Pathway

Claude Letourneau, President & CEO

U.S. - Norway Bilateral Meeting on CCUS Washington DC, USA, November 1, 2023

Benefits of Solid Sorbents

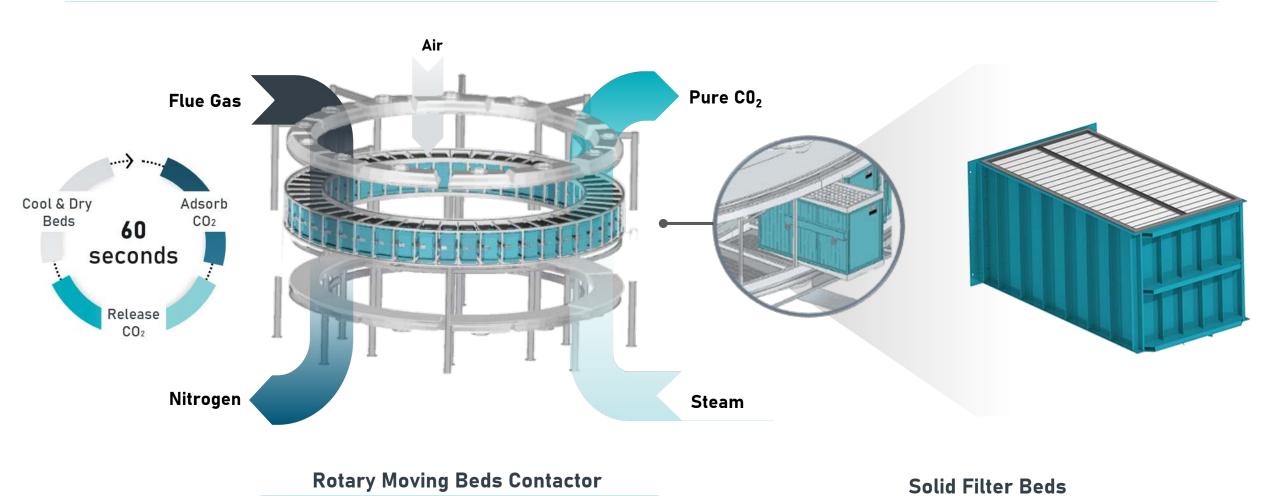
Metal Organic Frameworks (MOFs) are a step change for the carbon capture industry for several reasons

- ✓ Energy efficient
- \checkmark Resistant to SOx, NOx, O₂ & H₂O in flue gas
- ✓ No toxic fugitive emissions
- ✓ Sustainable recyclable materials
- ✓ High selectivity over water
- ✓ Captures 90% of total CO₂ emitted
- \checkmark Ability to deal with variable flue gas flow rate
- High CO₂ capacity means smaller inventory of adsorbent
 required



Solid Sorbent Carbon Capture Technology

Svante CO₂ Capture System (Exploded View)



Rotary Moving Bed Contactors with Filters Inside

Ursa 1000

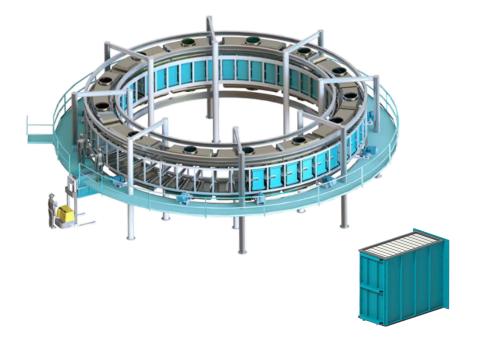
~500 TPD/ ~182,500 TPA

Volume of filter: 42 m³ / 14 m 0D

Ursa 2000

~2,000 TPD / ~730,000 TPA

Volume of filter: 145 m³ / 24 m 0D





Building 14m Commercial Size "Buck" in Q1-2023



Cenovus Pilot Plant in Saskatchewan, Canada



Chevron Pilot Plant in Bakersfield, CA





Product Development & Commercial Scale-Up

Phase	Process Demonstration Unit 100 Series	Pilot Plant Cement Kiln Flue Gas 200 Series	FOAK Plant 400 Series	SOAK Plant 400 Series	Full Scale Machine Design Validation 1000 Series	1 st Commercial Capture Plant 2000 Series
Plant Scale						Constant Con
Location	Svante BC, Canada	Lafarge BC, Canada	Cenovus SK, Canada	Chevron CA, USA	Svante BC, Canada	Svante US Location
Years	2017	2018 – 2015	2019 - 2024	2023 – 2025	2023 – 2024	2026 - 2027
CO ₂ Capacity	0.1 TPD	1 TPD	30 TPD	25 TPD	~500 TPD	~4000 TPD (2 x 2000 TPD RAMs on site)

Minimum Viable Product Phase

Svante

Product-Market Fit

MOF Sorbent Development & Commercial Scale-Up

Metal Organic Frameworks - MOF

Phase	Laboratory	Bench Scale	Pilot Plant	Commercial Scale
Plant Scale				<image/>
Location	Svante BC, Canada	Svante BC, Canada	BASF Ludwigshafen, Germany	BASF NC, USA
Years	2016 - 2019	2019 - 2020	2021 – 2022	2023 +
Batch Size	10 g	5 kg	Up to 500 kg	2500 kg
Annual Capacity	5 kg	250 kg	10 tonnes	500 up to 3000 tonnes
		Minimum Viable Produc	Product-Market Fit	

Filter Bed Development & Commercial Scale-Up

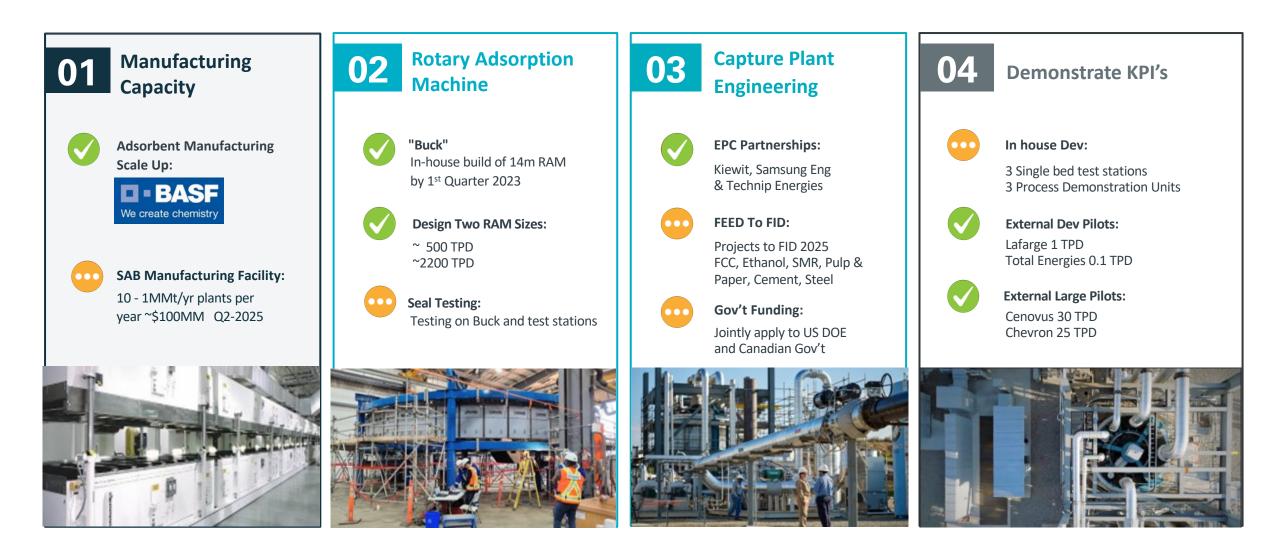


Minimum Viable Product Phase

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Product-Market Fit

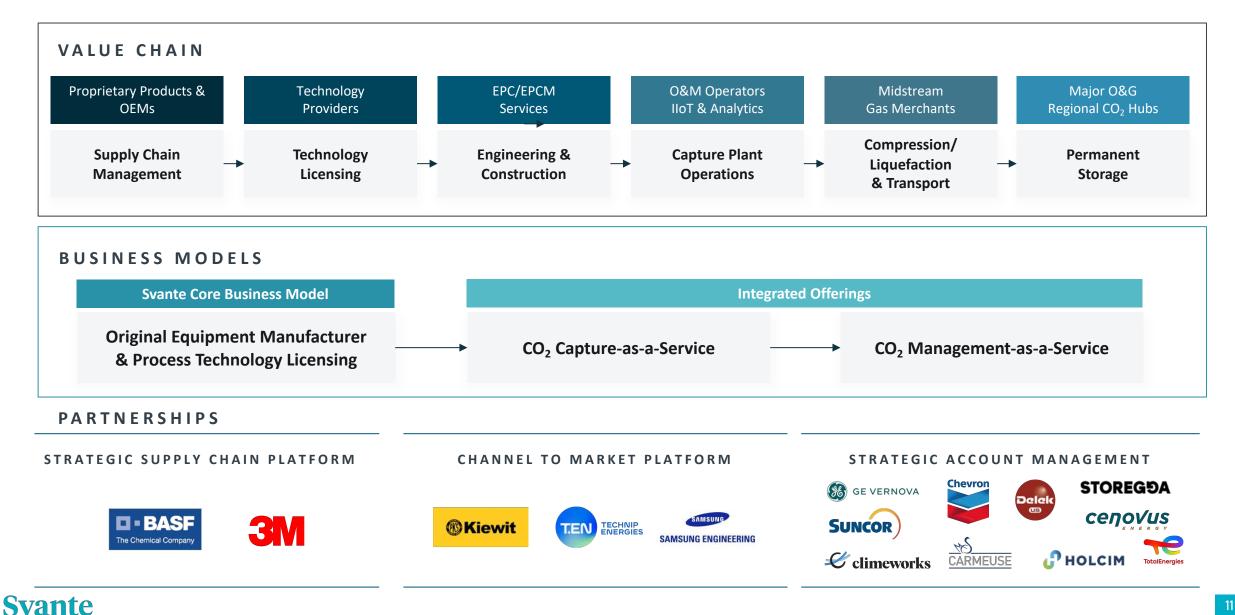
Path to Rapid Commercialization in 2024/25



= IN PROGRESS

= DONE

Partnerships Across the Carbon Capture & Removal Value Chain



Questions & Answers

Svante

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