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Net-Zero Flexible Power, Update Svante

Mark Claessen, Senior Vice President, Growth & Project Delivery

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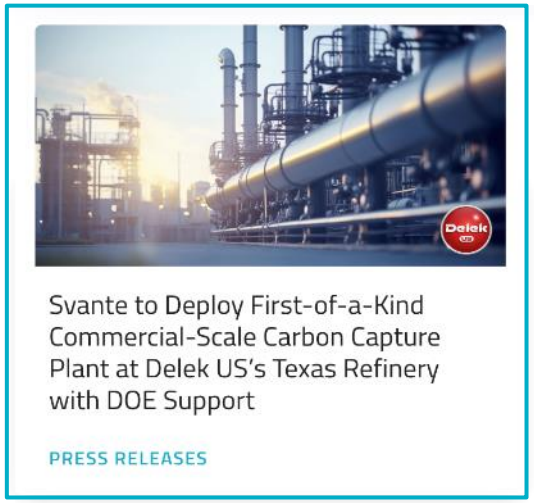
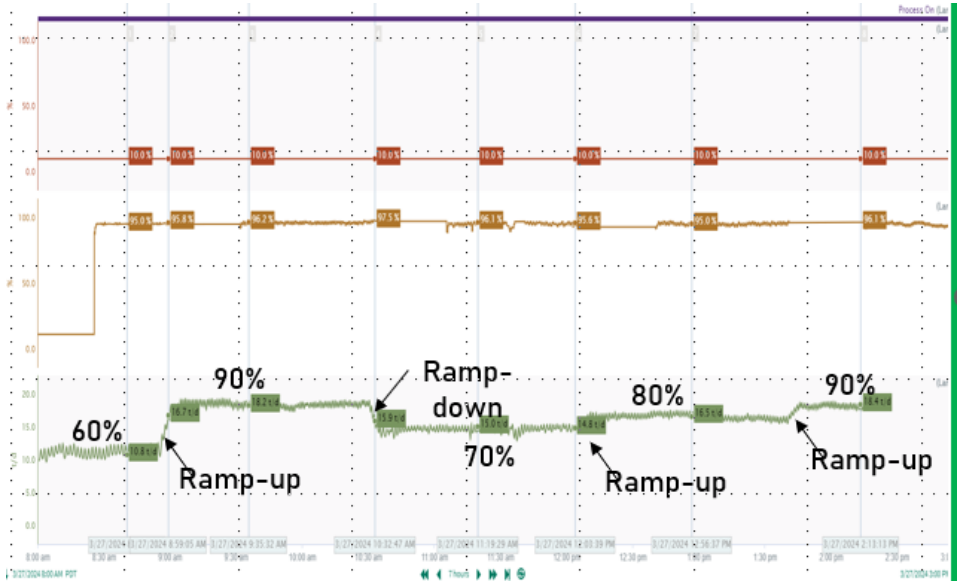
General Status Update of Svante Pilot Demonstration

- Full commercial scale Svante's Rotating Adsorption Machine (RAM/"Contactor") protype installed and tested since Q3 2023
- Chevron pilot plant using Calf-20 MOF, operating since Q2 2023
- Installation of Large-Scale Filter Manufacturing line at 60% progress, first filter manufacturing expected Q1 2025
- DELEK and Svante selected by DOE for Carbon Capture Large-Scale Pilot Project program
- Commercial KPIs for Calf-20 MOF targeted at CO_2 concentrations above 10% validated at relevant scale

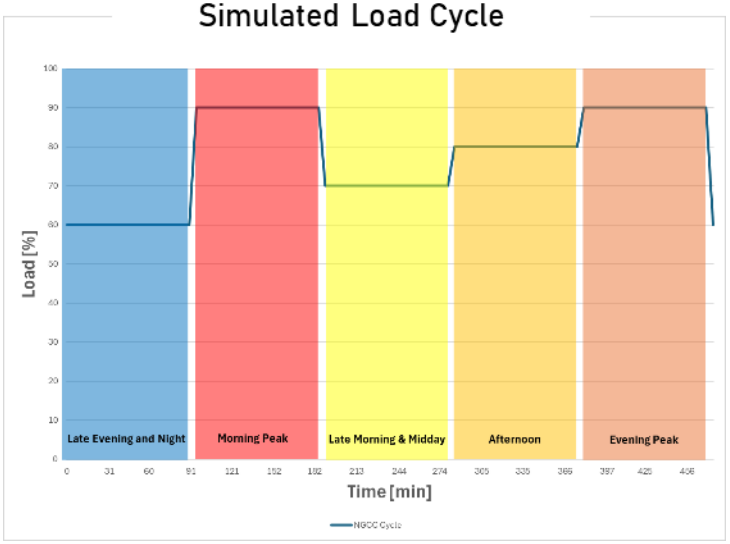


Initial results of Rapid Load following testing

Capacity	9,125 tpa
Source	Industrial Boilers
Partners	DOE, Chevron, Kiewit (KSI Alliance)
Location	San Joaquin, CA, United States
Phase	Operational since Q2 2023



- Plant designed to test full system dynamic for Svante carbon capture plant
- Product purity maintained at 95% throughout simulated load following; 5 minutes ramp up from 60-90%
- Lessons learned are directly applicable for all applications using Svante technology



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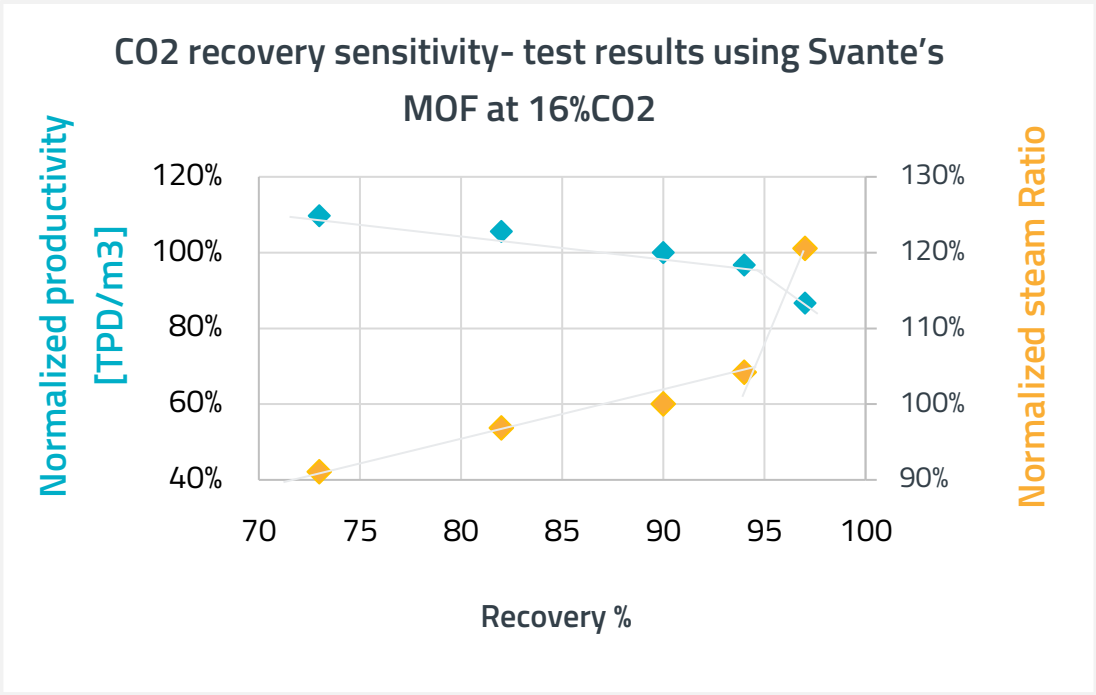
Achieving 95+% CO2 capture recovery with Svante technology

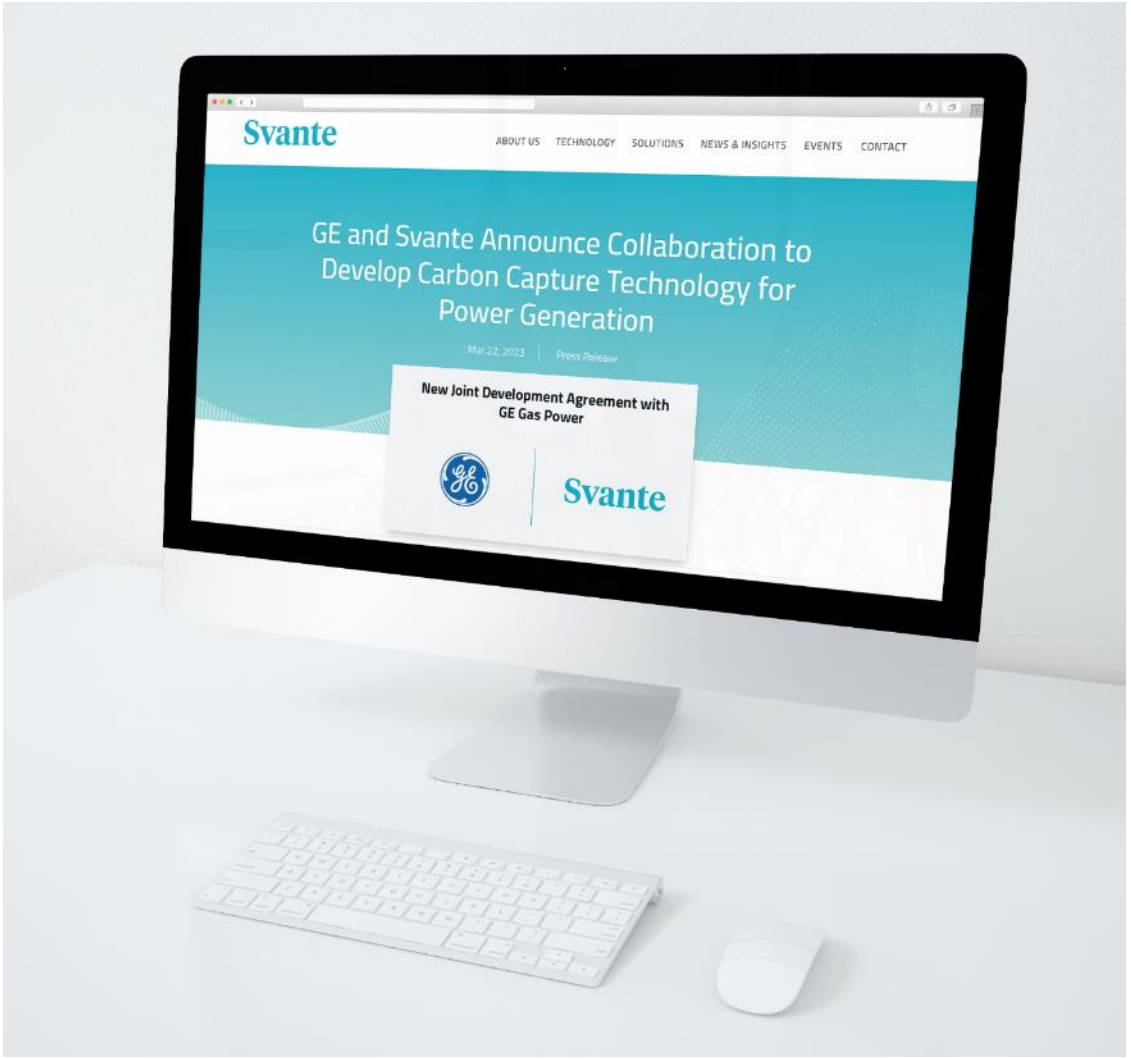
- Svante Rapid Temperature Swing (RTSA) capture cycle can achieve 95+% recovery
- The drawbacks of 95+% recovery targets are on the energy demand and manufacturing performance
- Methods to enhance CO2 recovery in Svante's RTSA process include
  - Optimizing structured adsorbent bed
  - Process cycle and plant process optimization
- 2-stage system can be another option to enhance CO2 capture rate



MOFs for NGGC CO_2 capture

- Svante's filter technology can be applied to all CO_2 concentration (from DAC, NGCC, OTSG, SMR, …) by only changing the active material
- Svante's actual sorbent portfolio is covering both DAC (400 ppm) and high concentration (10%+ CO_2).
- Svante is actively collaborating with GE Vernova to extend Svante's solid sorbent technology to power generation via NGCC by focusing on further development and commercialization of novel solid sorbent.

https://www.gevernova.com/news/press-releases/ge-and-svante-announce-collaboration-to-develop-carbon-capture-technology-for-power



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Let’s tackle your emission reduction targets together.

Mark Claessen

SVP, Growth & Project Delivery

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