



TerraFixing

Decarb Connect Canada

October 2023

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Problem



“Carbon neutrality is not enough to limit warming to 1.5°C”

We need to remove 5 GT of CO₂ from the atmosphere annually”

- Intergovernmental Panel on Climate Change

Solution

Direct Air Carbon capture (DAC)

- Remove CO₂ from the atmosphere
- Decouple capture from source
- Independent of TIME
- Targets all CO₂ emissions



From million- to billion-dollar investments, DAC is the fastest growing sector in Clean Tech

52 Million
Global
Thermostat

110 Million
Carbon
Engineering

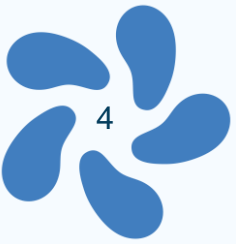
149 Million
Svante

650 Million
Climeworks

2.6 Billion
Canada
Budget 2022

3.5 Billion
USA DAC
Scale-up

Capital invested in DAC



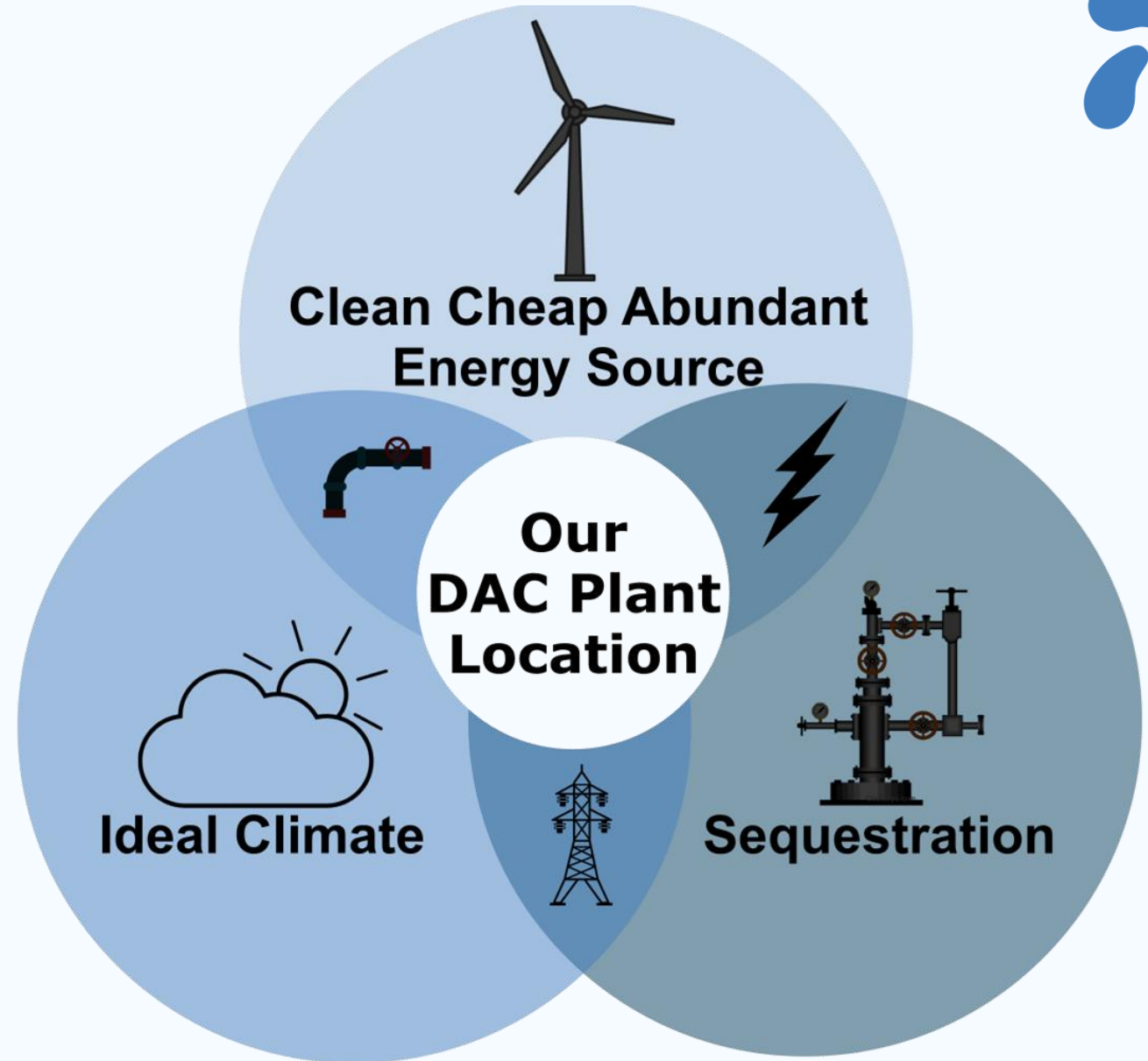
The Future of DAC is in COLD CLIMATES



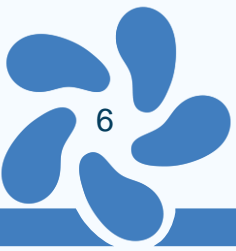
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Why the Cold?



Competitive Advantage



 INDEPENDENT 

Climate > News

World's biggest carbon removal machine 'freezes over' in Iceland

Enormous device to halt global warming brought to heel by unusually cold weather

Harry Cockburn Environment Correspondent

• Tuesday 19 April 2022 12:46 • [31 Comments](#)



Carbon Engineering's Founder David Keith on the limitations of operating in cold conditions:

“Two types of freezing problems [...] colder temperatures run the risk of causing the dissolved caustic to precipitate”

David W. Keith *et al.*, “Capturing CO₂ from the atmosphere: rationale and process design considerations”, Chapter 6 of *Geo-Engineering Climate Change: Environmental Necessity or Pandora's Box?*, © Cambridge University Press 2010.

Technology Readiness



Proven

- Bench scale
- Peer-reviewed



IP Protected

- Trade Secrets
- PCTs & Provisional patents



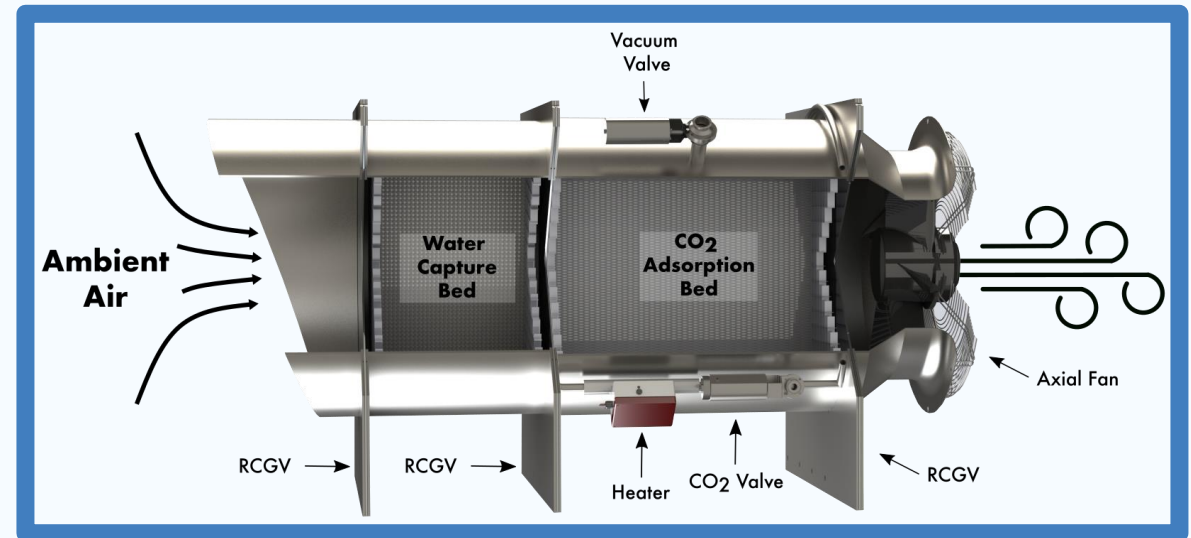
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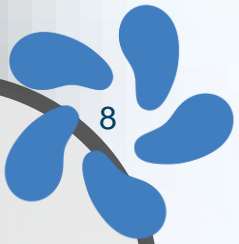
- Hatch
- XPRIZE



Scale-Up

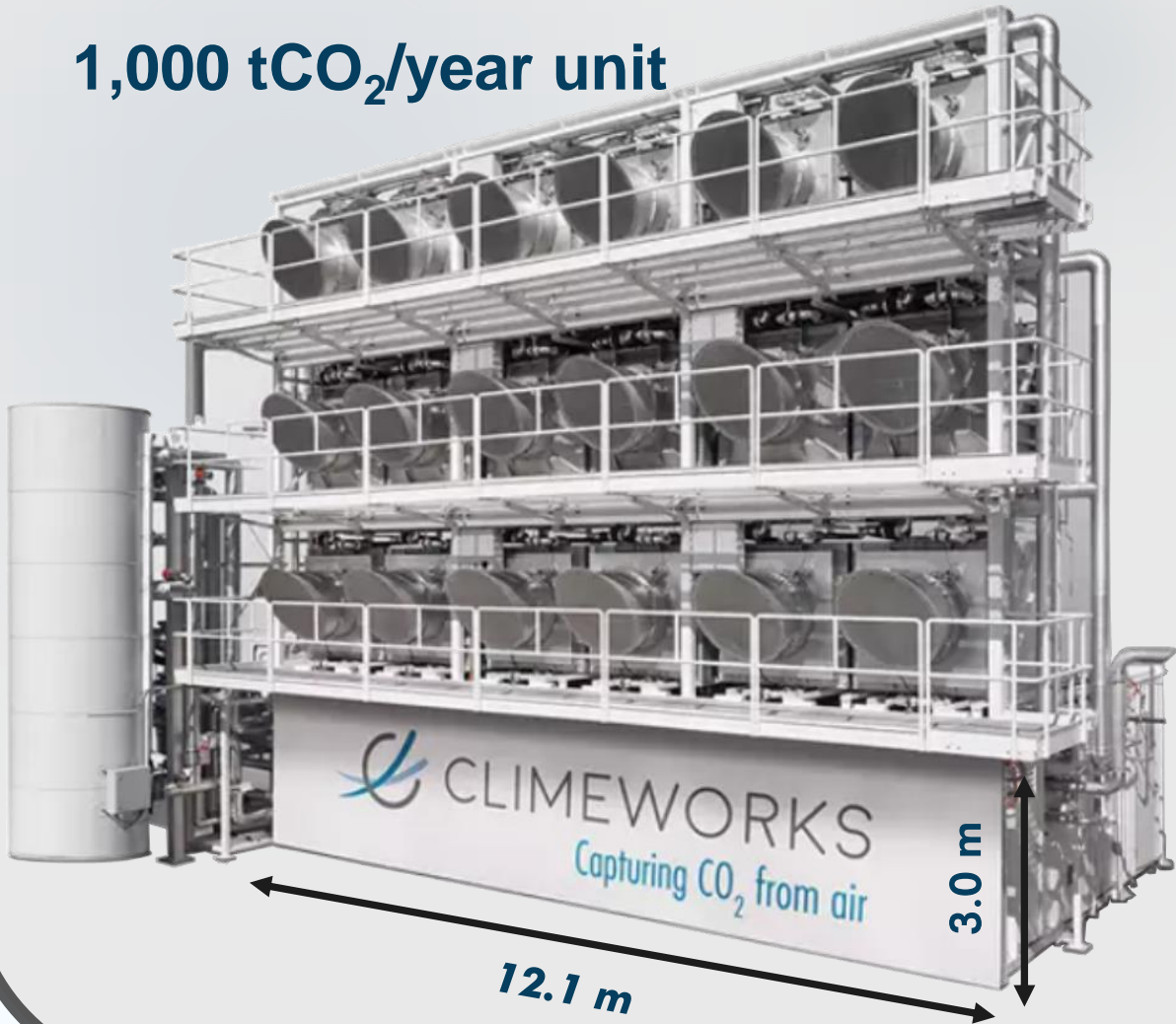
- TRL 5 → TRL 8
- Pilot, 2024





TECHNOLOGICAL INNOVATION

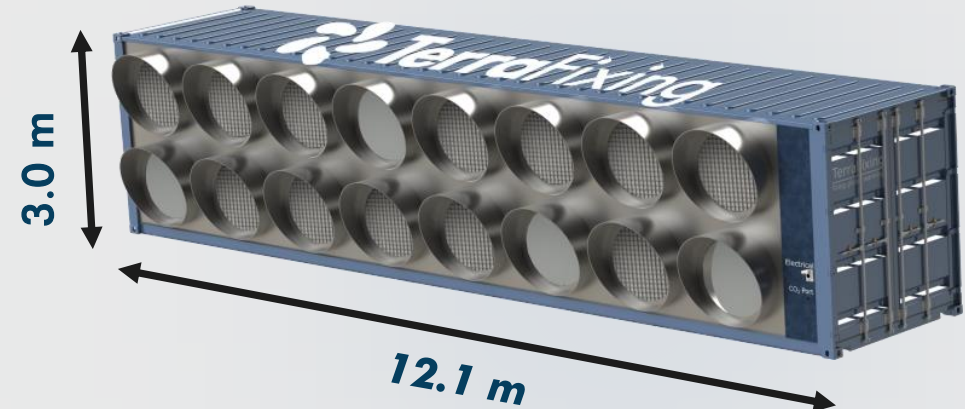
1,000 tCO₂/year unit



1,000 tCO₂/year unit



4,000 tCO₂/year unit



Traction



XPRIZE Milestone Finalists
Technology validation, HATCH



\$270,000+ in sales this year
Klarna and WRLD Foundation



\$2.6 Million+ raised this year
Non-dilutive



Innovation in CCUS
Carbon Capture Canada
Award Nominees Sept 2023



LOI's with carbon removal
purchasers



LOI for high purity CO₂
Coca-Cola Europacific Partners



Forbes 30 Under 30
Vida Gabriel, Local List



Letter of support from Mayor
of Vermont for Pilot



Acceptance into high profile
accelerators Top 8 of 250+



Commercial agreement with
renewable power provider



University collaborations
RMC, IRNS



And more!



Go to Market

Pilot

1,000 tCO₂/year
Integration with intermittent
renewable wind energy
Proves technology
Proves business model

Potential Gigaton Deployment Sites

Favourable climate
High wind energy potential
On-site sequestration

Pipeline

10k - 30k tCO₂/year
Integrated with renewables
Vertical value chain

Impact



First DACC technology viable in Canada

Achieve our 2050 net-zero goals



Job creation in remote & underserved communities

Indigenous partnerships, restorative justice



Thousands of tonnes removed in the next 5 years

Pilot location: Fermont QC. Catalyst for wind power infrastructure



Megatonne capture scale in 2030

In partnership with Canadian renewables providers and manufacturers



Gigatonne capture before 2050

Achieving capture costs below \$100/tCO₂



Environmental & Social Justice

Repair of past harms





Our Team



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PhD Chem Eng.



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Cofounder
Chem Eng.



Dr Pierre Rivard
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Laurent Abbatiello
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Mech Eng., CMA
MBA, PMP



GET INVOLVED

What we do

DAC for Canada

SEED round

Fully Subscribed

Carbon removal pre-purchases

Actively selling



Dr. Pierre Rivard

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Decarb Connect Canada
October 26th 2023



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Investors & Partners



carbonNEXT

Tugliq
Énergie

Klarna.

NGIF

NRC-IRAP

WRLD
Foundation

MaRS

Natural
Resources
Canada

PLUGANDPLAY

cosia

C₂V CARBON TO
VALUE INITIATIVE

Invest
Ottawa | Investir
Ottawa

AIRMINERS

SDTC

Milkywire

Carbon
Business
Council

DACC

FORESIGHT
CANADA



Thank You



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