

Investment Deck Disclaimer

novoMOF AG

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Problem

Energy production and industrial processes produce enormous amounts of CO₂ every year

23.8 gigatons new CO₂ emission from energy production and industrial processes per year - 65% of world's CO₂ emissions! (2022, IEA*)

This Carbon needs to be captured!

State-of-art tech amine scrubbing is **expensive** (100-180 CHF / t CO₂)**, complex (big footprint), and environmentally challenging (corrosive solution)

Carbon tax is coming latest 2030 with expected price of up to 220 USD / t CO₂ (IPCC Report by United Nations***)

* https://www.iea.org/reports/co2-emissions-in-2022

** Source: Client emails

*** IPCC Report Chapter 3 (p.300) https://www.ipcc.ch/report/ar6/wg3/downloads/report/IPCC_AR6_WGIII_Chapter03.pdf



Solution

Our ultra-efficient, renewable MOFs for point-source capture

Ready to scale

Efficient CO₂ capture*

Our MOFs capture CO_2 using waste heat (regeneration at 90 °C) with demonstrated success at 2.5 t_{CO2} /year scale.

Economical production

Efficient, scalable production recipes with patent(s) filed and confirmed freedom to operate.

Sustainable materials

Green, biodegradable materials used, including abundant metals and recyclable components.

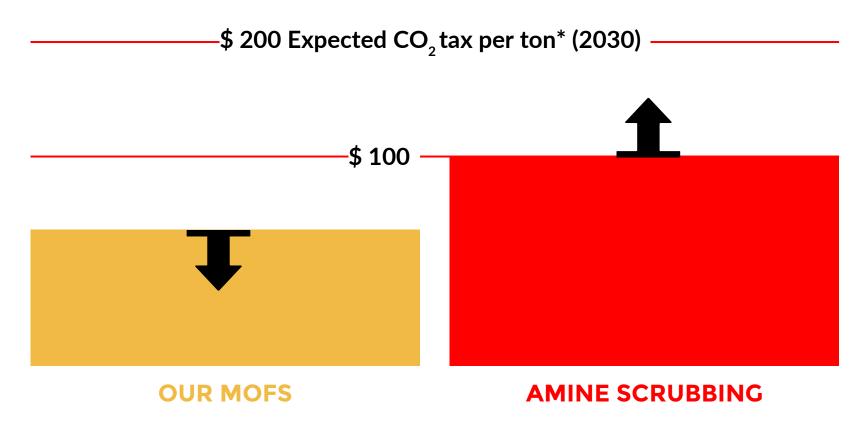


*Capture = excl. transportation & storage



USP

Pioneering a cost-efficient capture solution, beating the state-of-the-art & CO₂ Tax





novoMOF

USP

< 100 \$/t_{CO2} capture cost with our MOFs

Revolutionizing CO, capture

Amine scrubbing Cost per ton < 100 USD CO2 captured* ~ 100 USD Lower ~54 kJ/mol (-50%!) **OPEX** CO₂ binding energy ~105 kJ/mol low Complexity of plant high Lower **CAPEX** Footprint (size of building size container size plant) Green Toxic, corrosive, **Environmental** hazardous waste impact Recyclable components treatment **Technology** TRL TRL 9 readiness level (TRL) development TRL 5+ now!



We have efficient, scalable recipes for the MOF production and patents have been filed



IP of our MOFs for CO₂ capture are around efficient, scalable production recipes (our unique know-how)

1st MOF: Trade secrets on product and production method &

FTO confirmed in Europe, USA, Canada, Middle East and China

2nd MOF: Patent filed with product, method and application claims with

priority date in Nov. 2023 & FTO confirmed in Europe, USA,

Canada, Middle East and China

nth MOF: Multiple MOFs in development, knowhow on further point-

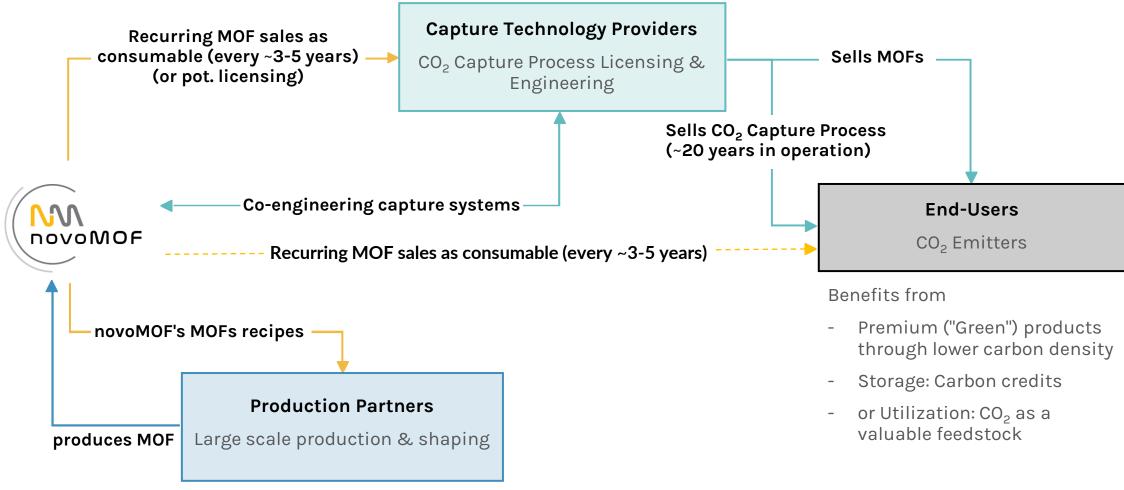
source and Direct Air Capture MOFs





Business Model

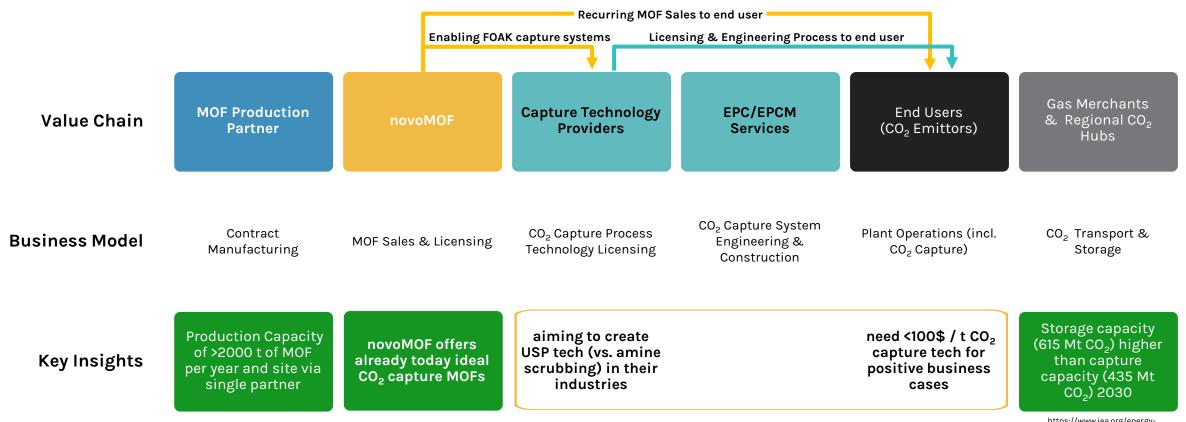
Recurring revenues: MOFs as consumable



Business Model

Carbon Capture Value Chain

Surplus of CO₂ storage demand & sufficient MOF production capacity -> Orchestrating Technology Providers & End Users

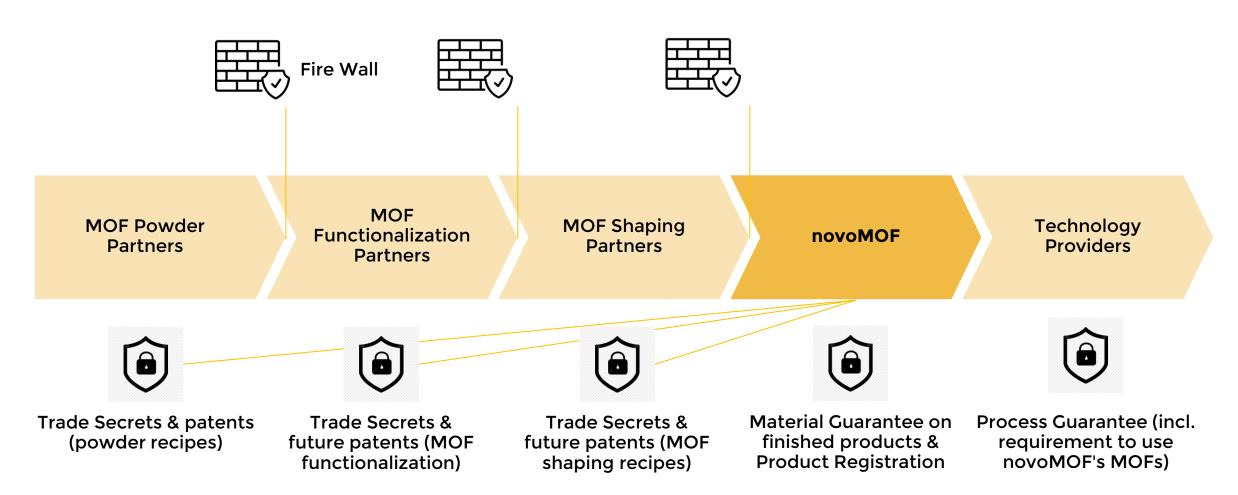




https://www.iea.org/energysystem/carbon-capture-utilisation-andstorage

Business Model

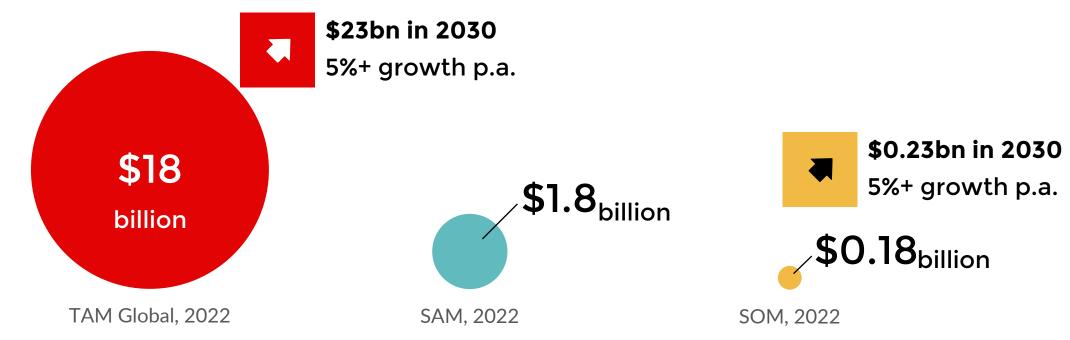
IP Protection through multiple "Moats"





Market

We are disrupting the \$18bn global Amine Scrubbing Market growing at 5%+ per year



Global Amine Scrubbing Market

https://www.skyquestt.com/report/aminescrubbing-services-market

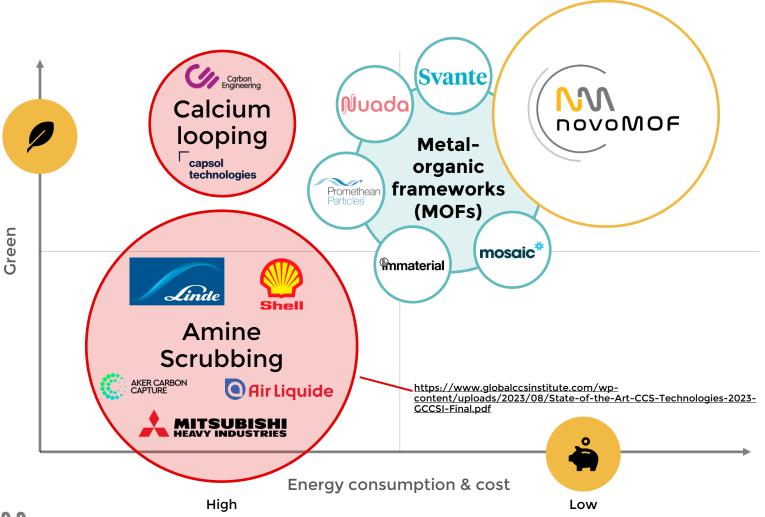
If 10% of Amine scrubbing shifts to more Revenue potential if novoMOF can serve 10% cost-efficient & green technology

of that alternative-capture-tech market



Competition

Our MOFs are low cost & green



- Amine scrubbing is environmentally concerning and energy intensive
- MOFs for CO₂ capture are on the rise now!
 - Svante (CA) raised \$315m in
 December 2022 (United Airlines
 Ventures, Samsung Ventures, Hesta
 AG, GE Vernova...)
 - 2. Nuada (UK) raised **\$10m in July 2023** (BGF, Barclays Ventures...)
 - 3. Promethean Particles (UK) raised £8m in August 2024 (Merica Ventures, Aramco Ventures...(
 - Immaterial (Cambridge, UK) raised undisclosed amount in October
 2023 (SLB, AP Ventures, Cepsa, Chevron Technology Ventures...)
 - 5. Mosaic (US) acquired by Baker Hughes in April 2022



Achievements

Breaking Barriers: Sub-\$100 per Ton CO, Capture, achievable through our MOF Mastery!

Seed Financing Round Technology Provider 8 2024 **Partnerships** FTO confirmed & 1 Partnership Signed patent filed for We discovered 2 own (Cement) CO₂-MOFs **MOFs First Commercial Pilot** 3 Partnerships in November 2023 negotiation January 2023 2025 with client and industry partner 0 - 00-0 **Completed demonstrator:** Our Proved superiority of our Acquired Carbon MOF proven on a kg-scale 2,5 tons CO₃ per year



MOF (with client)

demonstrated with a

MOFs lab-scale CO, demonstrator

October 2023

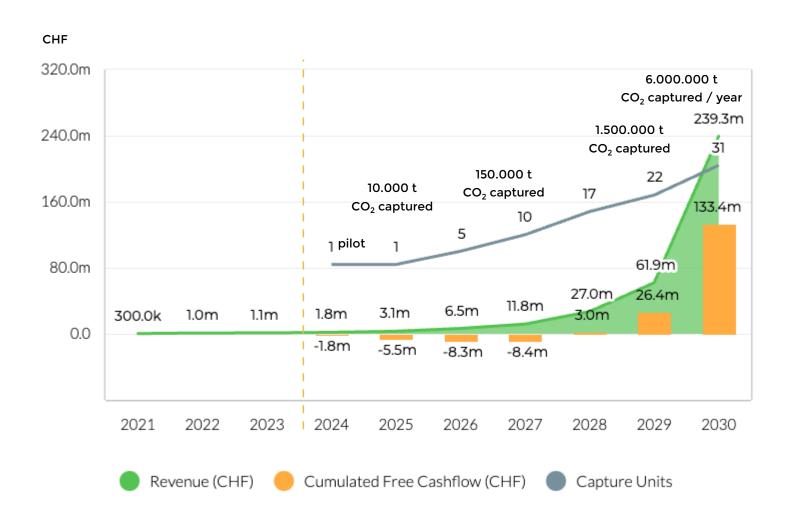
Capture Clients (5+ CO, clients)

May 2024

July 2024



Financials



- 2023 Strategic pivot to CO₂ market & projects
- 2024-2025 Non-recurring revenue from pilot projects
- 2026+ MOF material sales
- 31 capture plants by 2030 capturing 6 million tons CO₂

REVENUE OPPORTUNITY

Tab into CHF 240m revenue opportunity by capturing 6 million tons of CO₂ with our MOFs



Seed Round

Capitalizing on our unique, scalable MOFs

Accelerating to seize the opportunity

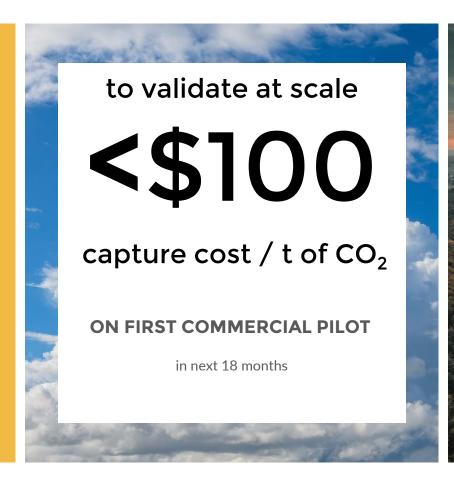
Raising

5

Million CHF

SEED ROUND

2024



Use of Funds

Co-Engineering of FOAK capture systems with technology partners

First Commercial Pilot with client & process partner

 MOF Shaping & Optimization at large scale with production partners

Stabilizing final MOF Products

 Develop Next-Gen Versions of our MOFs

Develop further recipes for point-source and Direct Air Capture MOFs



Roadmap

To date

7+ years of MOF development (Angel Funded)

Successful 2.5 t CO₂ / year demonstrator and

> proven with clients and in collaboration with 7HAW

proof at kg scale

Market validated

8 CO₂-customers acquired to-date

2024 - 2025

Seed Round for pilot scale

2025 - 2027

Series A or acquisition for industrial scale-up

Recurring revenues from 10'000 t CO₂ /

MOF-Shaping, testing

with Client & Strategic

& optimization

of our MOF & demonstrator

Commercial Pilot Plant Partner

> Scale to first 10'000 t CO₃ / year customers

200'000 t CO₃ / year

developed for large emitters

units

scale-up pilot to 10'000 t CO₂ / year unit with technology partners

year units

Showcase < 100\$ / t CO₂ on first-of-akind commercial pilot

Blueprint design

CO₂ compression

complete system

with exhaust gas pre-treatment and

Strategic partnership

with process builder

to engineer capture process around

our MOFs

Patents Filed

We discovered unique MOFs for

CO₂ capture, patents filed





Our MOFs are a Platform Technology for other emissions & applications



our current focus



Direct Air Capture (DAC) Atmosphere ~420 ppm CO₂ = 0.04 vol.% CO₂

POST-**COMBUSTION** CAPTURE (PCC), FLUE GAS 1-20 vol.% CO₂

Bio gas upgrading, Biogas >20 VOL.% CO

Other Applications

Carbon Capture CO,

Methane CH,

Water H₂O

Substances of high concern Volatile organic components (VOCs)

Our MOFs as platform technology



Team

We are engineers and entrepreneurs to the core.



Daniel
Steitz
CEO & Founder
MSc ETH in Chemical and Bioengineering



Dr. Charles Toft cto Dr. sc. Chemistry



Dr. Anna Chomiak Application Engineer Dr. sc. ETH Process Engineering



Dr. Ewa Banach Material Specialist Dr. sc. Chemistry



Timo Steitz

Strategic BD & Co-Founder MSc Innovation& Entrepreneurship ESADE + MIM CEMS Aalto + B.A. HSG in Business Adm.



Alessandro Brevi

Business Development MSc in Business Economics & Finance



Paul Davis

Business Development 25+ years experience in enterprise sales



Cristina Lendvai

Marketing Director
MSc in Business
Administration



Oliver Maurer

Lab & ProductionSpecialist Chemistry & Pharma Technologist



Wilhelm Steitz

CFO & Legal Dipl-Eng. Mechanical Engineering



Board & Advisors

Top notch experts from the chemical, startup industry & research are part of the novoMOF journey



Marco Ziegler

Senior Partner Emeritus McKinsey (chemical, pharmaceutical, and advanced industries)

LinkedIn



Daniel Steitz

MSc ETH in Chemical and Bioengineering

CEO & Founder novoMOF AG

<u>LinkedIn</u>



Balz Roth

Professional business angel, board member, startup advisor for 15 years. Startup Coach at Innosuisse

LinkedIn



Damian Henzi

Business Economics &
Management, 10 years at Mars
Group, 15 years as CEO of
Hochdorf Holding AG, and
various board roles.



Wilhelm Steitz

Dipl-Eng.

Mechanical Engineering, 25+
years of experience in different
senior management
functions at PTC & Computer
Vision

<u>LinkedIn</u>



Anil Sethi

Serial Entrepreneur & Author, founded Flisom in 2005, raised >CHF 100m as CEO/CFO before its strategic sale, co-founded several technology startups (Scrona, Instaheat). Startup Coach at Innosuisse

<u>LinkedIn</u>



Board

Advisors

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Scientific Advisory board

The world-leading MOF experts & MOF inventor (Prof. Yaghi, UC Berkeley) are in our scientific advisory board



Prof. Yaghi
UC Berkeley
Wikipedia



Prof. Dincă MIT



Prof. Navarro Universidad de Granada



Prof.
Gassensmith
UT Dallas



Prof. Queen



Prof. Taddei
University of
Pisa



Prof. van Bokhoven ETH Zurich



Dr. Ranocchiari Paul Scherrer Institute (PSI)



Prof. ForganUniversity of Glasgow





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