

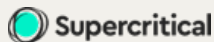
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13.2.25
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carboculture

Selection of the industry-leading partners, advisors and clients we are proud to work with

NextGen



carboculture

Tesi

true Ventures

BUSINESS
FINLAND



puro•earth

SPRIN-D
BUNDESAGENTUR
FÜR SPRUNGINNOVATIONEN

European
Innovation
Council



We are a biochar project developer with proprietary technology

- Searching bankable offtake contracts and strong JV partners
- Established 2016 with HQ in Finland
- 40 Full Time Employees
- 26M€ equity + 5M€ grants raised to date
- Institutional Investors: Temasek Genzero, True Ventures, Tesi with over 9B\$ of combined AUM for decarbonisation
- We are initially developing a portfolio of projects across the Nordics and Benelux

Biochar is a critical climate technology, with potential uses in both industrial decarbonization and carbon removal

● Green steel

Replace fossil coal as chemical reagent in steel production

Mitigate CO₂ emissions and reduce compliance costs by switching to bio-based carbon, biochar

Further decarbonise energy use with our biogenic syngas to replace natural gas.

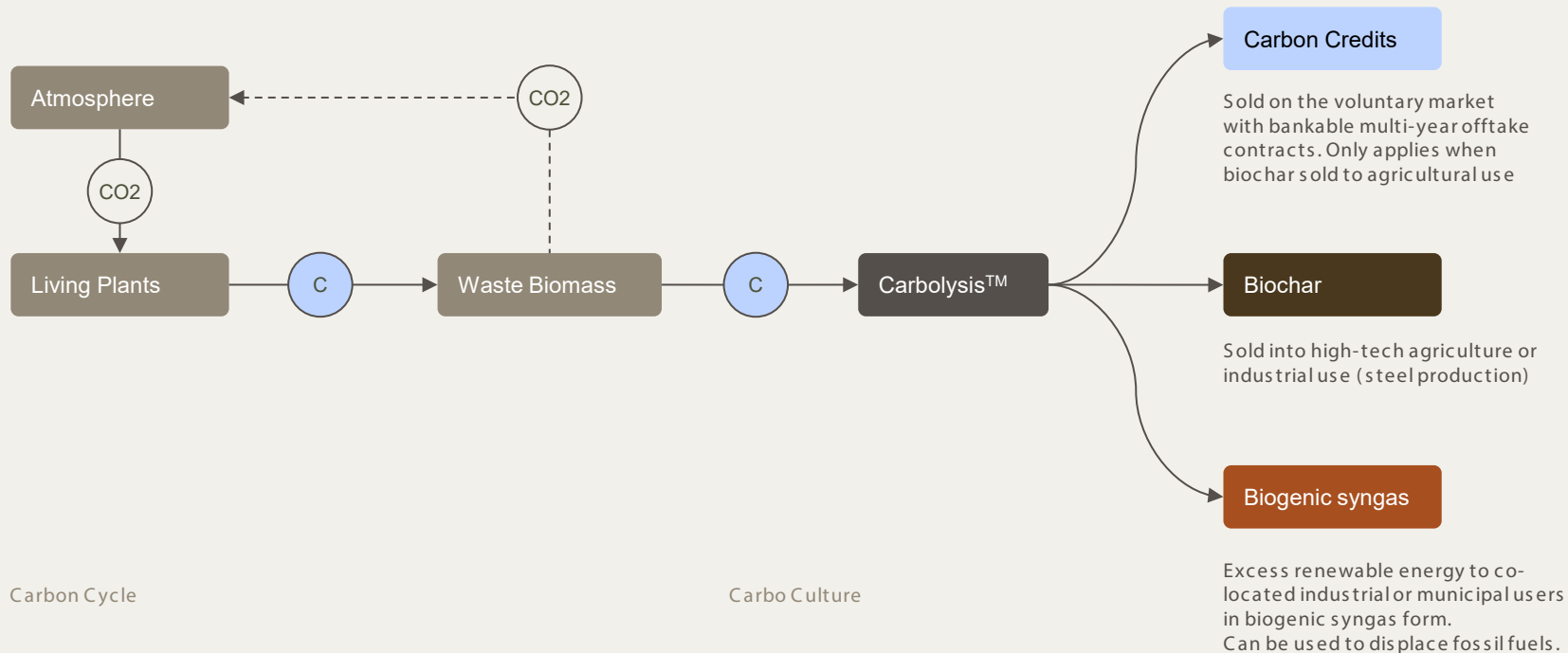
● High-tech agriculture

Substitute peat (a fossil product) in growing media for greenhouse growing

Use co-products (heat and biogenic syngas) to replace natural gas in heating and CO₂ for greenhouse growing

Generate accredited permanent carbon removal, enabled by using our high durability biochar in soil as carbon sinks

Converting waste plant matter into 3 revenue streams



R3: Automated, industrial sized pilot reactor

Location: Kerava, Finland

Commissioned : 2023

Objectives:

- Commercial sized reactor proven before moving to modular plant design
- Proven variety of feedstocks and pre-processing requirements identified
- R&D for biochar applications for growing media and substrate clients

Output : 1kt biochar, 3kt of CO₂e or carbon credits per annum



We have proven our technology and product quality at increasing scales



CALIFORNIA

R1

In operation
R&D



R2

In operation
Volume scale up 4x



R3

In operation
Volume scale up 1.5x
Automated system
Industrial standards



EUROPE

C1

2025 -2026
Full module pilot
(In development)

Industrial scale, energy generating biochar production technology

Proprietary technology

In-house design, fulfilment and deployment

High Quality Biochar

C-Fix >90%, low ash, low volatiles.

Scale with modules

A highly standardised module design

Smart deployment, less construction

The modules are pre-fabricated to be assembled on-site, delivering cost savings to the project

High uptime

Less maintenance costs thanks to clean outputs, near-free of tars

Usable Biogenic Syngas

Stable production of high-quality biogenic syngas with many use cases

Net energy generator

Ability to produce ~15 MW electricity or heat per module



Co-location opportunities

High-Value Gas

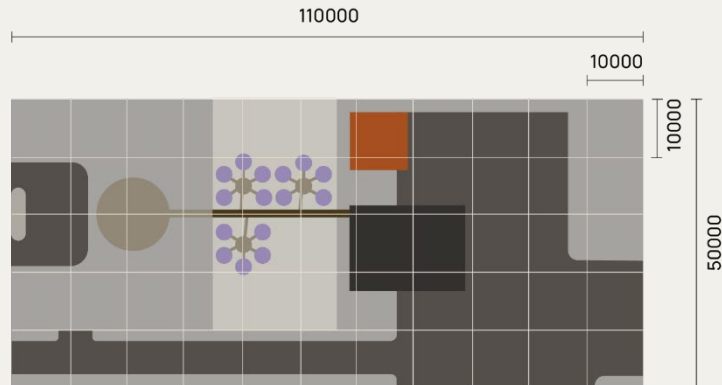
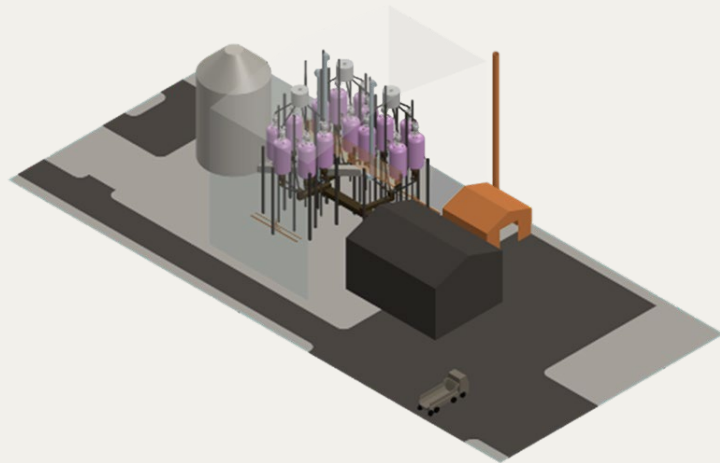
Syngas generated in biochar manufacturing offers an excellent opportunity to reduce the dependency on natural gas.

Syngas available in hot (400C +) and pressurized form.

Low Factory Footprint

The example plant shown has the footprint of 110m x 50m and produces 25kt biocarbon annually. ~ 15 % larger footprint can handle double the capacity.

Footprint does not include on-site feedstock preprocessing.



We have built a team **with deep expertise** in multiple fields



Henrietta Moon
CEO & Co-founder



Chris Carstens
CTO & Co-founder



Bjorn Dahlen
VP, Engineering



Henrik Dannström
Head of Project
Delivery



**Siddhartha
Gadiraju Phd**
Head of R&D



Kirsi Tanski
VP of Agribusiness



Charlotta Liukas
Head of Operations



Becca Aspinwall
Head of Legal

A strong footing in key markets
the EU, the US and the UK make us
poised for rapid expansion
and growth. 35+ FTE.



Hanna Ojanen
Head of Carbon
Markets and Policy



Garrett Manley
Mechanical
Engineer



Mikko Niemelä
Chief Automation
Engineer



Matti Lepomäki
Senior Electrical
Engineer



Dmitrii Dziadevich
Mechanical
Engineer



Sascha Habel
Senior Process
Engineer

Our team has **world - leading
expertise** from multiple decades
across energy, infrastructure
financing, pyrolysis tech, startups
and scaleups.



Leena Hietakangas
Document
controlling lead



Mari Jonninen
Procurement
Manager



Kristian Husman
Head of Finance



Zach Landau
R&D Engineer



Pekka Järvenpää
Product
Development Lead



Matt Mallory
Product Manager

We work with industry-leading partners

CORPORATE PARTNERS

Advisory and financial support



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Legal partners

BRACEWELL

Accreditation partners

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PROJECT PARTNERS

Technical partners



VAHASILTA

Operation partners



Credit purchasers

NextGen



Thank you!

Get in touch with our experts!

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