



# **#Reversepowerplant**

**reverse is the new forward.**

Power, heat and biochar from  
woody residues.

**WBA Webinar**

Date: 22.06.23

Location: Online

Speaker: Marcel Huber

COMPANY.



Founded in **2009** as an **MCI** university spin-off

**Multi-award-winning** and patented **technology**

Turnover now amounts to over **20 million**

More than **40 employees** now form

**#TeamSynCraft** that pursue the mutual goal of  
**climate stabilization**

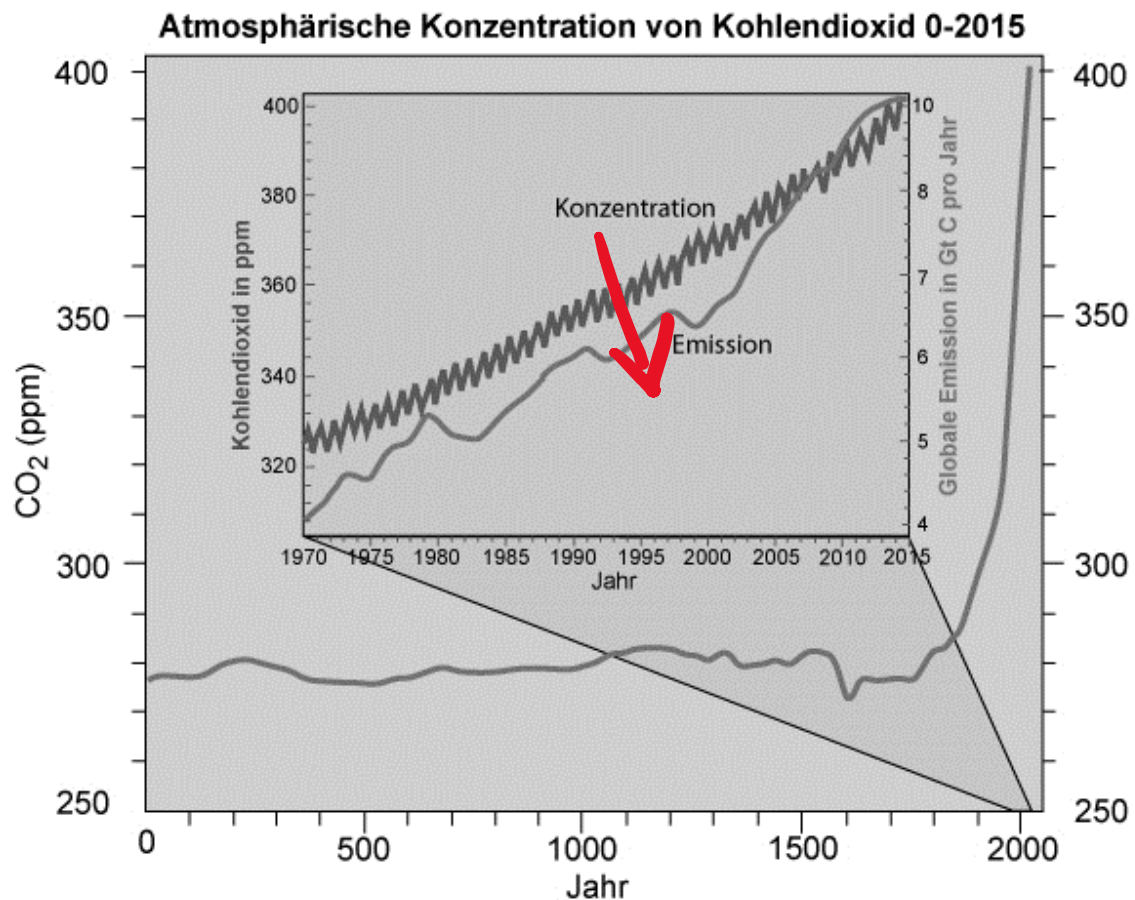


Energy Globe



Trigos

# WHAT MEANS REVERSE.



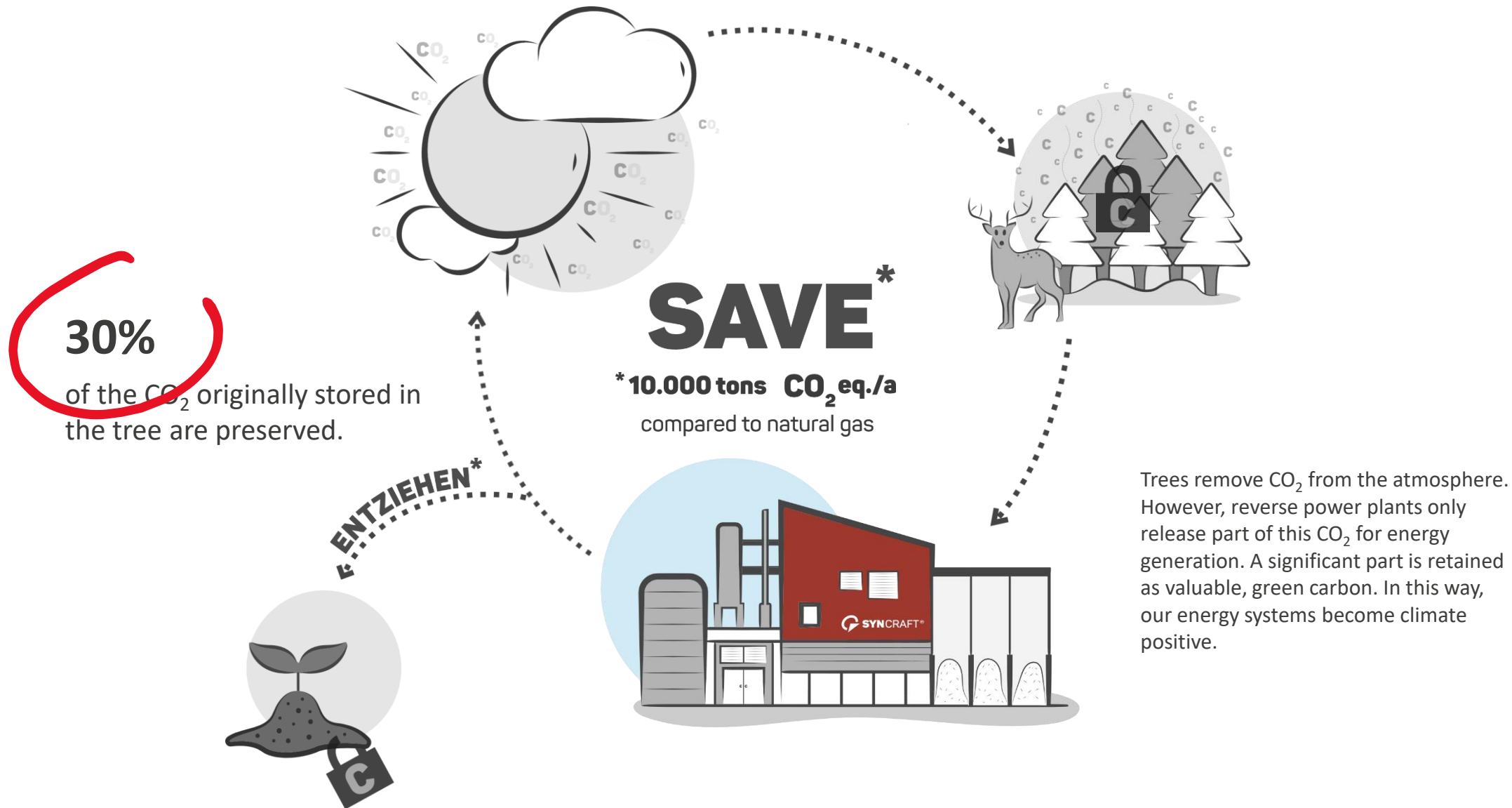
Source: CO2 2007.jpg – Klimawandel (bildungsserver.de)

## THE SOLUTION WITHIN THE PROBLEM.

- Every summer in the northern hemisphere, atmospheric CO<sub>2</sub> is reduced despite the 50 Gt/a anthropogenic CO<sub>2</sub> emissions
- If we could stop the re-release of CO<sub>2</sub> from biomass in winter, the increase would already be halted today.
- Our plants stabilize\* and concentrate > 30% biogenic carbon dioxide, in addition to providing renewable energy.
- This is **#Reverse**.

\*forever until burned

# CLIMATE POSITIVE CIRCLE.





Alpenkohle GmbH

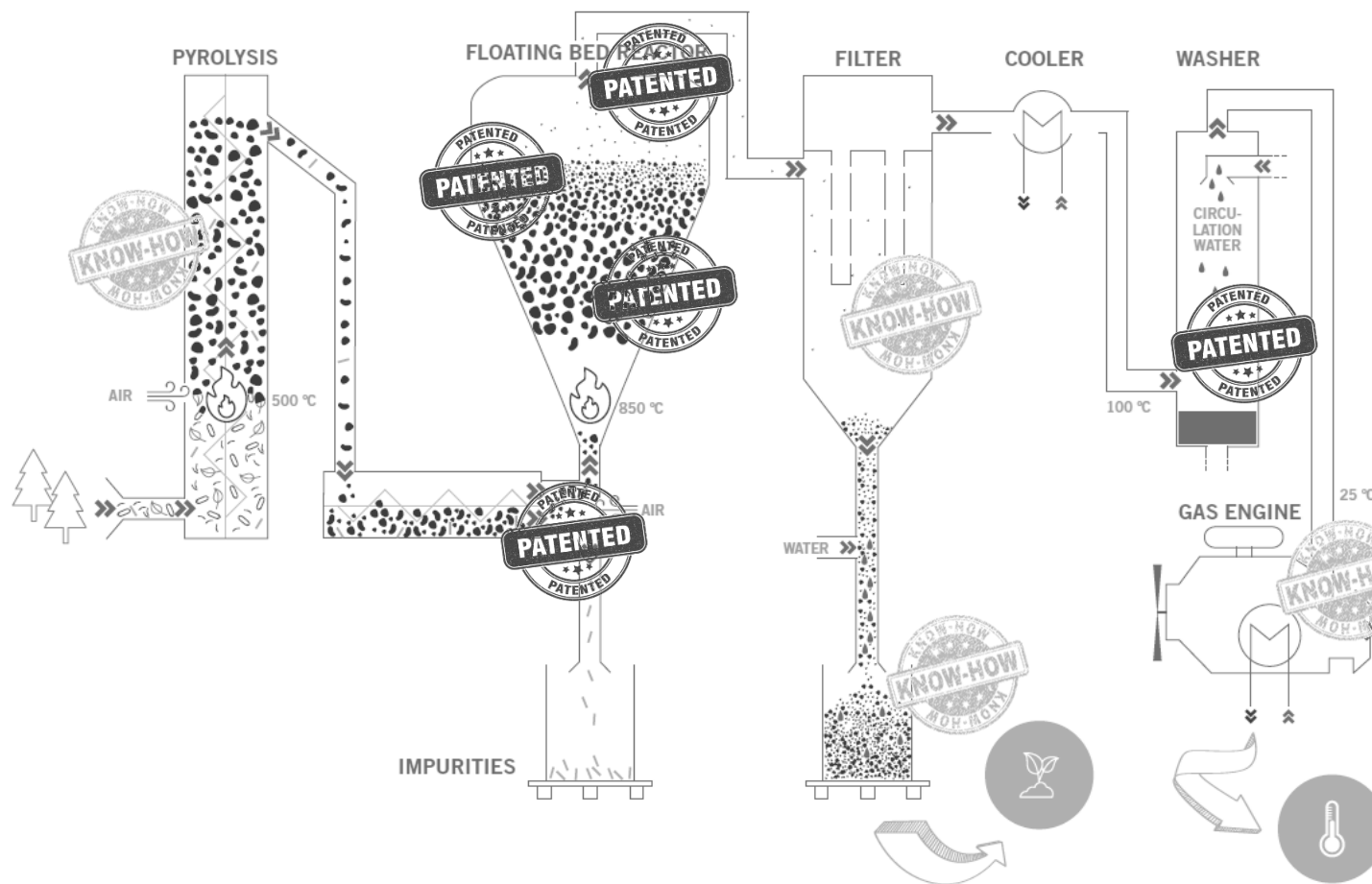
Charline GmbH



CarStorCon Technologies GmbH



# TECHNOLOGY.



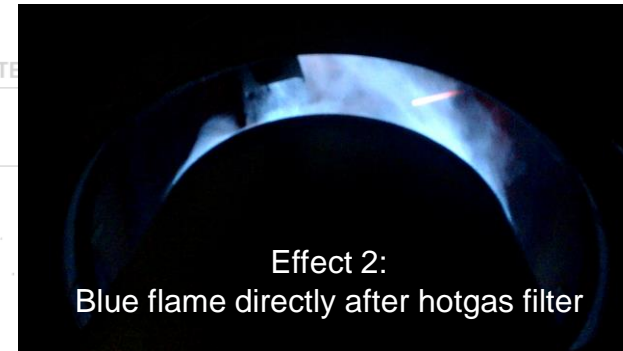
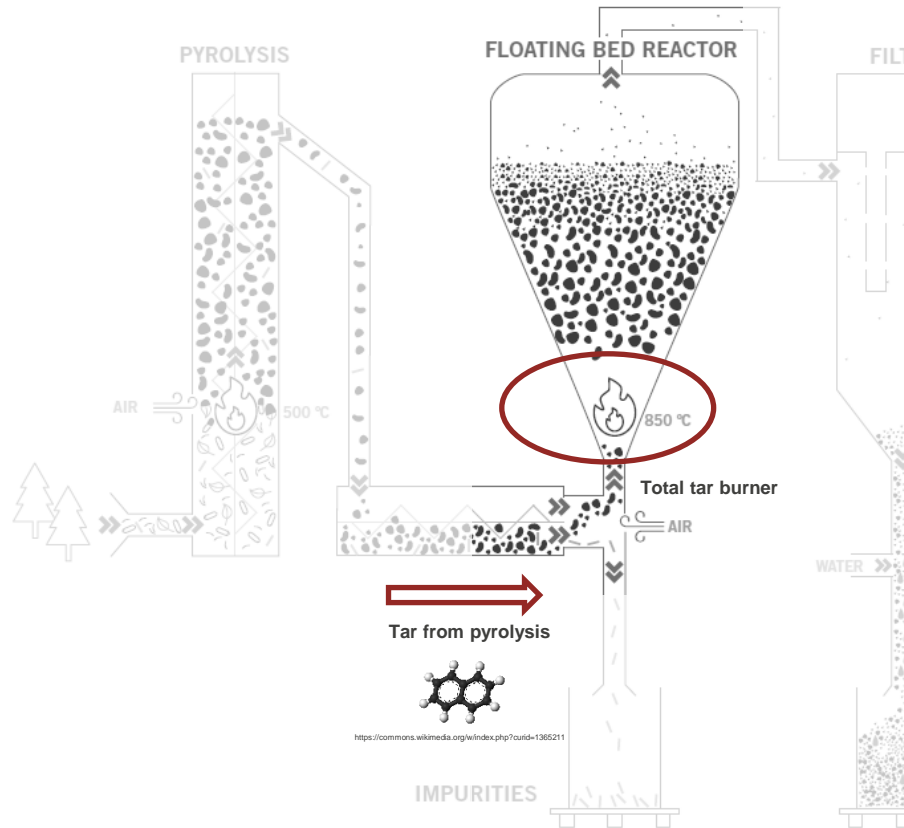
## Discribed as:

- Co-Current
- Multi-Staged
- Floating Fixed Bed
- Gasification System

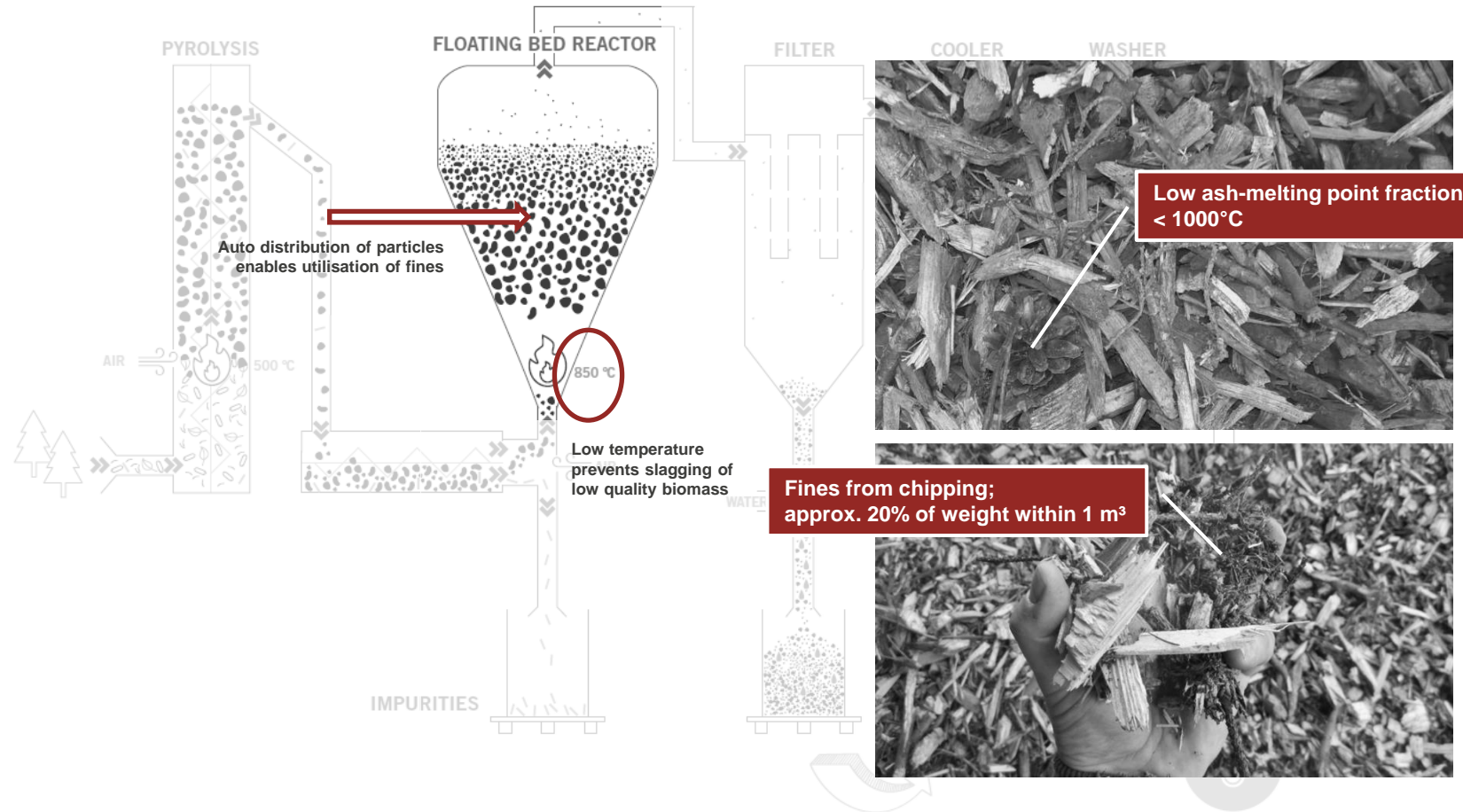
And **NO**; it isn't a fluidized bed gasifier!



# TAR ELIMINATION.



# FUEL FLEXIBILITY.







# Affordable fuel

forest residue wood chips



**CW1800x2-1000:**

Laas / IT

2018

1.000kW

- 3.000 t/a CO<sub>2</sub> eq.







**CW1800-400 x4:**  
Shingu / JP

2020  
1.600kW  
- 4.800 t/a CO<sub>2</sub> eq.







**CW1800x2-1000 x4:**  
Bioenergie Frauenfeld / CH

2022  
4.000kW  
- 12.000 t/a CO<sub>2</sub> eq.





**CW1800-500 x2:**

Perg / AT

2023

1.000kW

- 3.000 t/a CO<sub>2</sub> eq.

**NAWARO**  
ENERGIE





# NUMBERS & FACTS





**LET'S WORK  
TOGETHER**

office@syncraft.at

