

Stockholm Biochar Project





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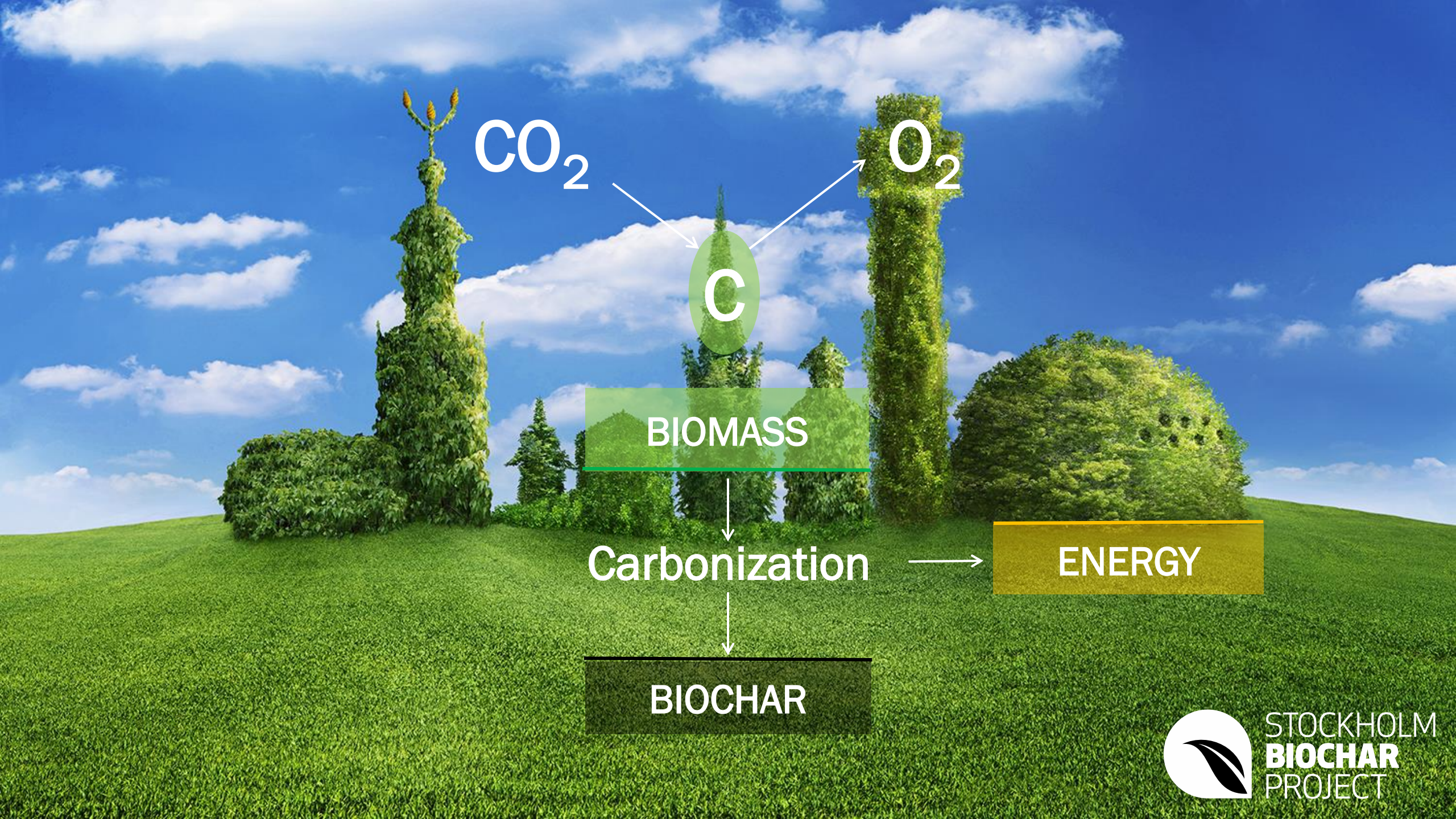
MATTIAS GUSTAFSSON

Project manager



Mayors Challenge





CO₂

O₂

C

BIOMASS

Carbonization

ENERGY

BIOCHAR



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BIOCHAR
PROJECT



Improves soils



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Large inner surface & pore volume

Carbon sink

Substitutes finite materials



**STOCKHOLM
BIOCHAR
PROJECT**



PILOT PLANT

Renewable heat for 80 apartments

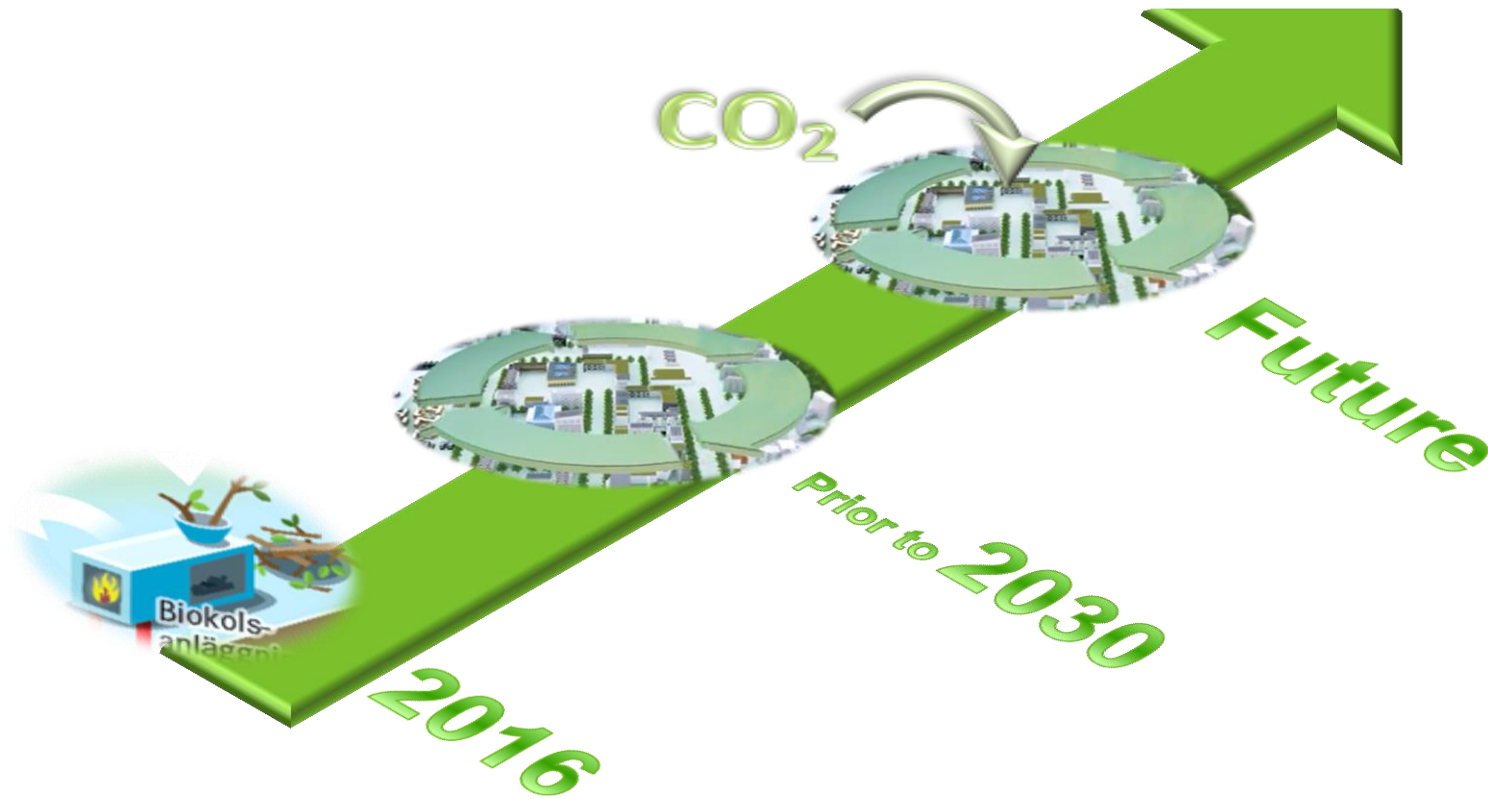
Biochar equivalent to the CO₂ emissions from 700 cars

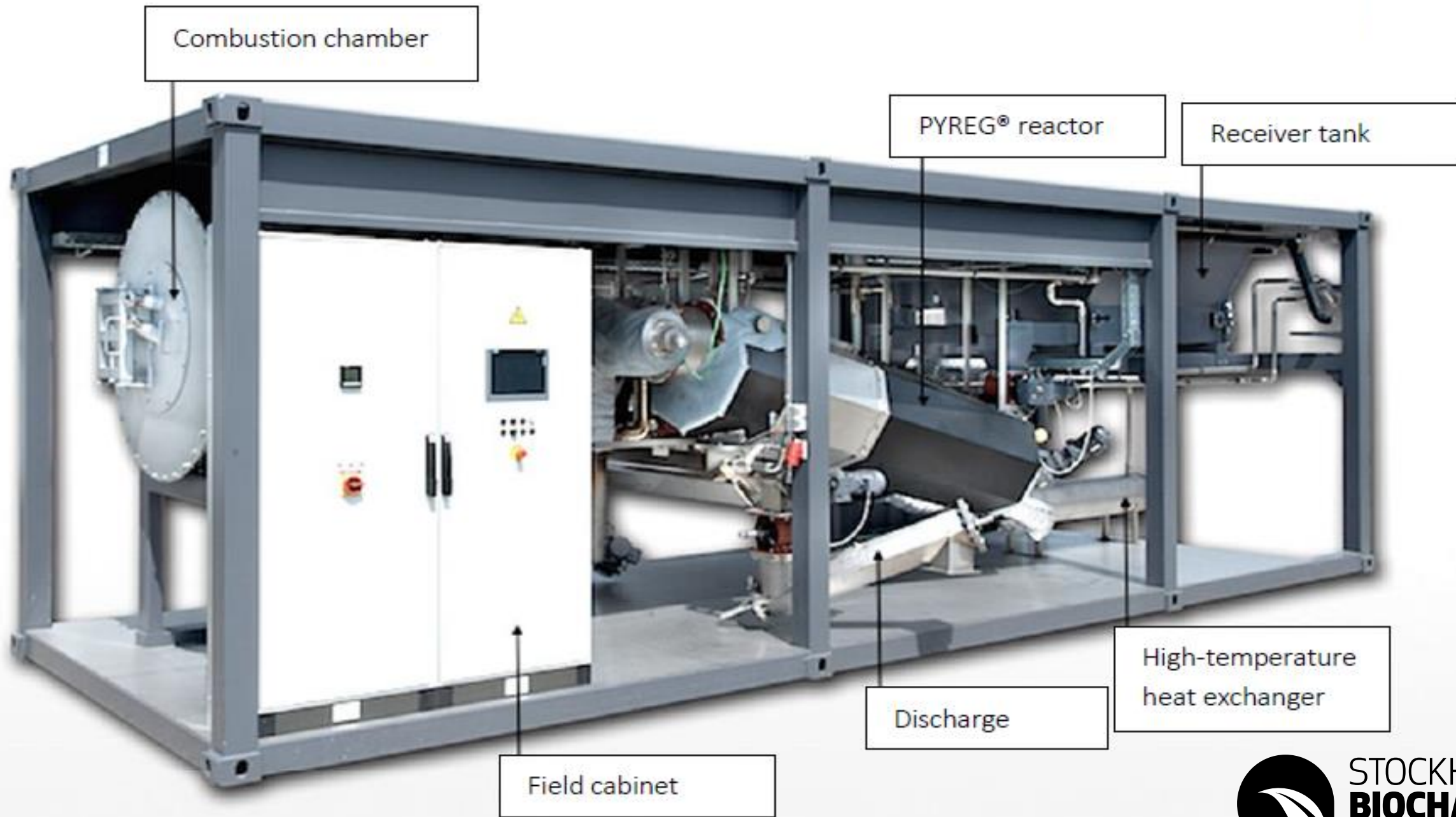
FULL SCALE

Renewable heat for 400 apartments

Biochar equivalent to the CO₂ emissions from 3500 cars

Climate positive heat production







Joint engagement
between citizens and the
city



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MAKING STOCKHOLM GREENER





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2016-09-21

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TURNING WASTE INTO BIOCHAR





A region with
3,5 million citizens
year 2030

WASTE PLAN WITH 4 MAIN OBJECTIVES

1. The waste should decrease and be managed in a resource efficient way
2. Hazardous waste should be managed separately
3. Waste management should be characterized by a human perspective
4. Waste is a natural part of the planning processes





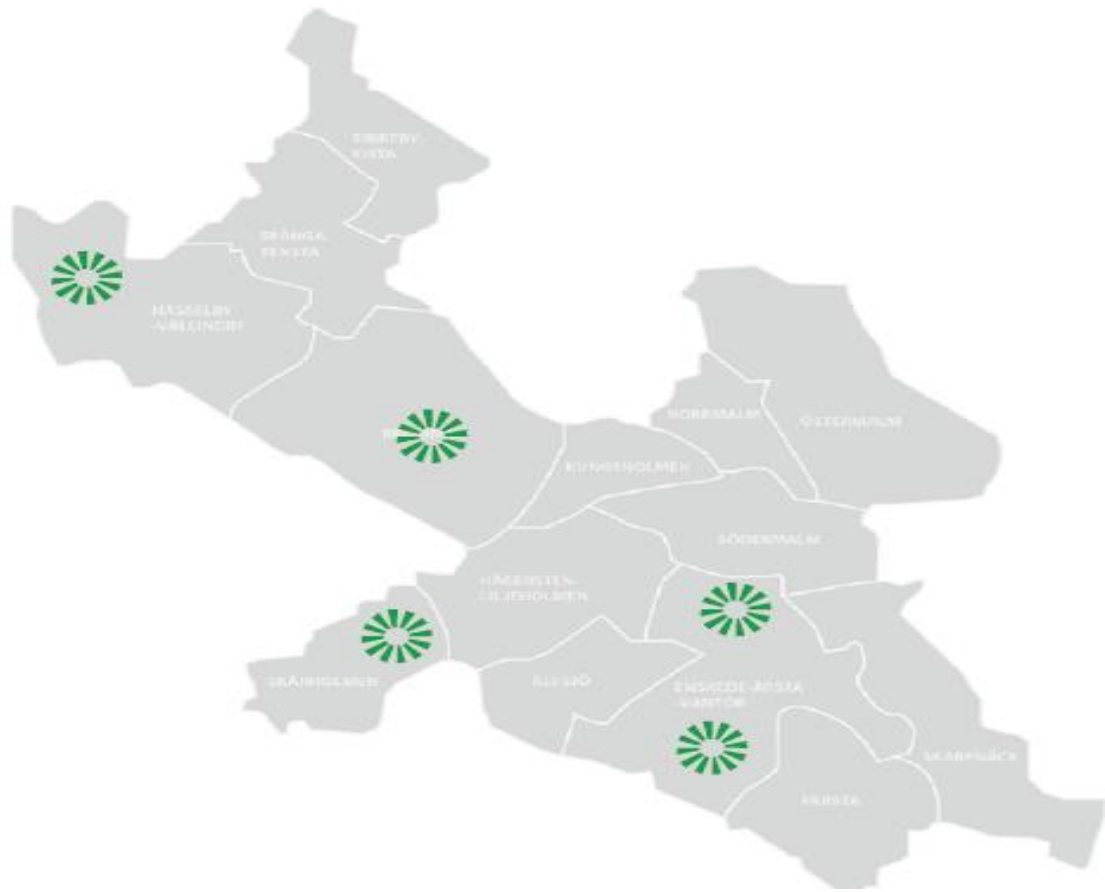
Landfill

Energy Recovery

Recycle

Reuse

Reduce



GARDEN WASTE RECYCLING

1. RC Bromma
2. RC Lövsta, Hässelby
3. RC Trädgård, Högdalen
4. RC Vantör, Högdalens industrial area
5. RC Östberga, Årstafältet
6. RC Sättra
7. Reuse factory at Vanadisberget
(Roslagstull's reuse factory)



STOCKHOLM BIOCHAR PROJECT



Stockholms
stad

STOCKHOLM
Vatten



 **Fortum**

**Bloomberg
Philanthropies**

STOCKHOLM
Vatten

