

DECARBONIZATION OF INDUSTRIAL HEAT

Hans Poser

12/2023 – Energy Startup Day

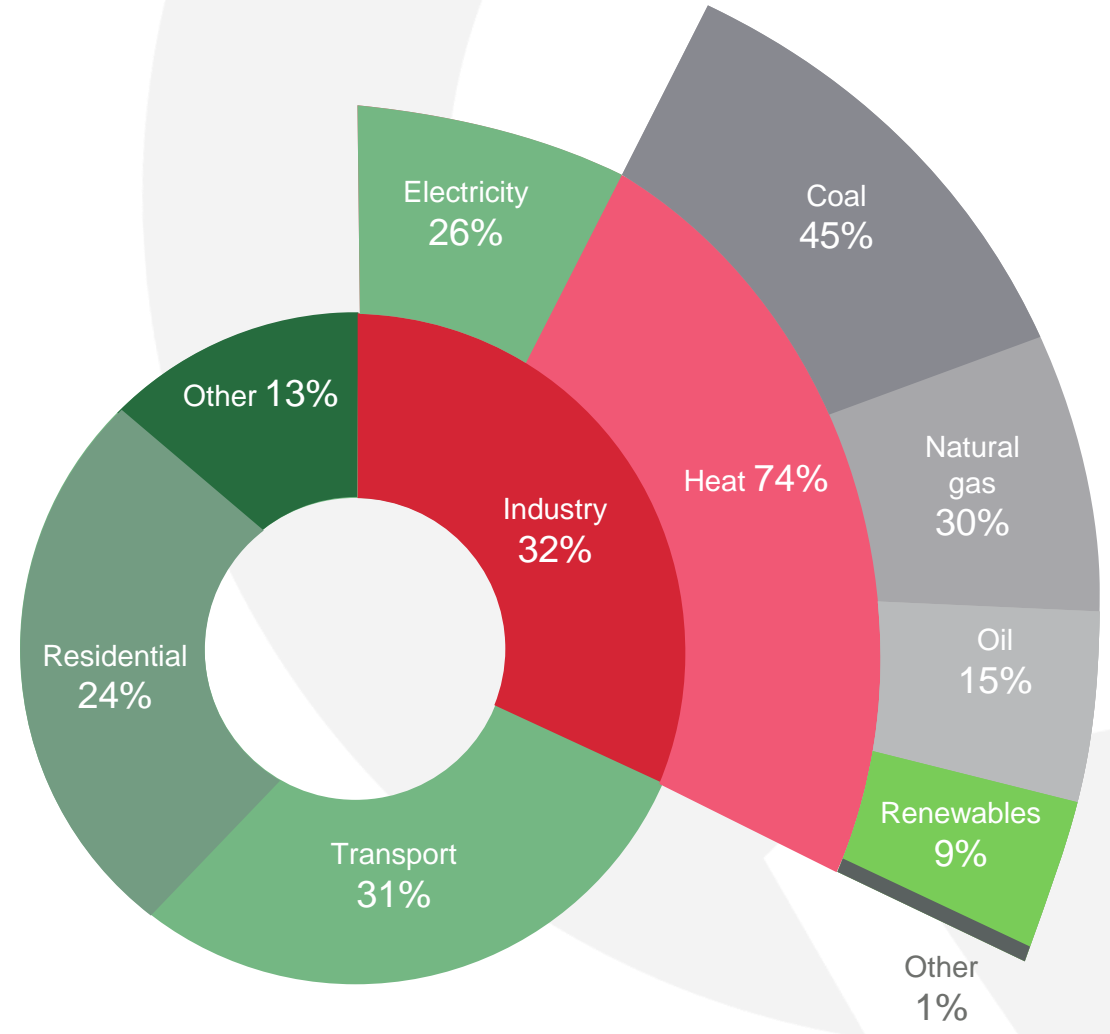
Co-founded by



THE CHALLENGE

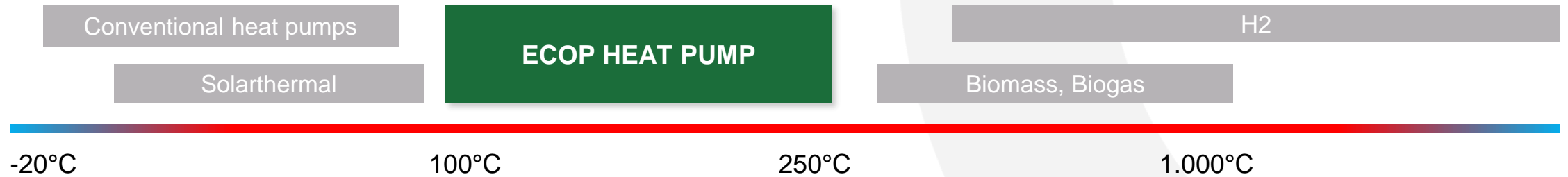
Industrial heat production is currently **90% based on FOSSIL FUELS**

Addressable industrial market (Europe)
€4.2 bn p.a.



THE SOLUTION

CLOSING THE GAP FOR RENEWABLE INDUSTRIAL HEAT



ENERGY SERVICES



PAPER & TEXTILES



BUILDING MATERIALS



FOOD & BEVERAGES



CHEMICALS



METALS



COMPETITIVE ADVANTAGES



CURRENT SITUATION

ecop ROTATIONAL HEAT PUMP



OPERATING RANGES



Up to **90°C**,
fixed



High-temperature level **up to 250°C output**;
flexible input level and flexible temperature
lift of up to 120K



WORKING MEDIUM



Toxic cooling
medium



Eco & **climate-friendly** working gas
(non-toxic, non-flammable, no PFAS)



EFFICIENCY



High efficiency at **one**
temperature level



High efficiency at **all** temperature
levels (typical COP of 3 - 4)



CENTRIFUGAL FORCES

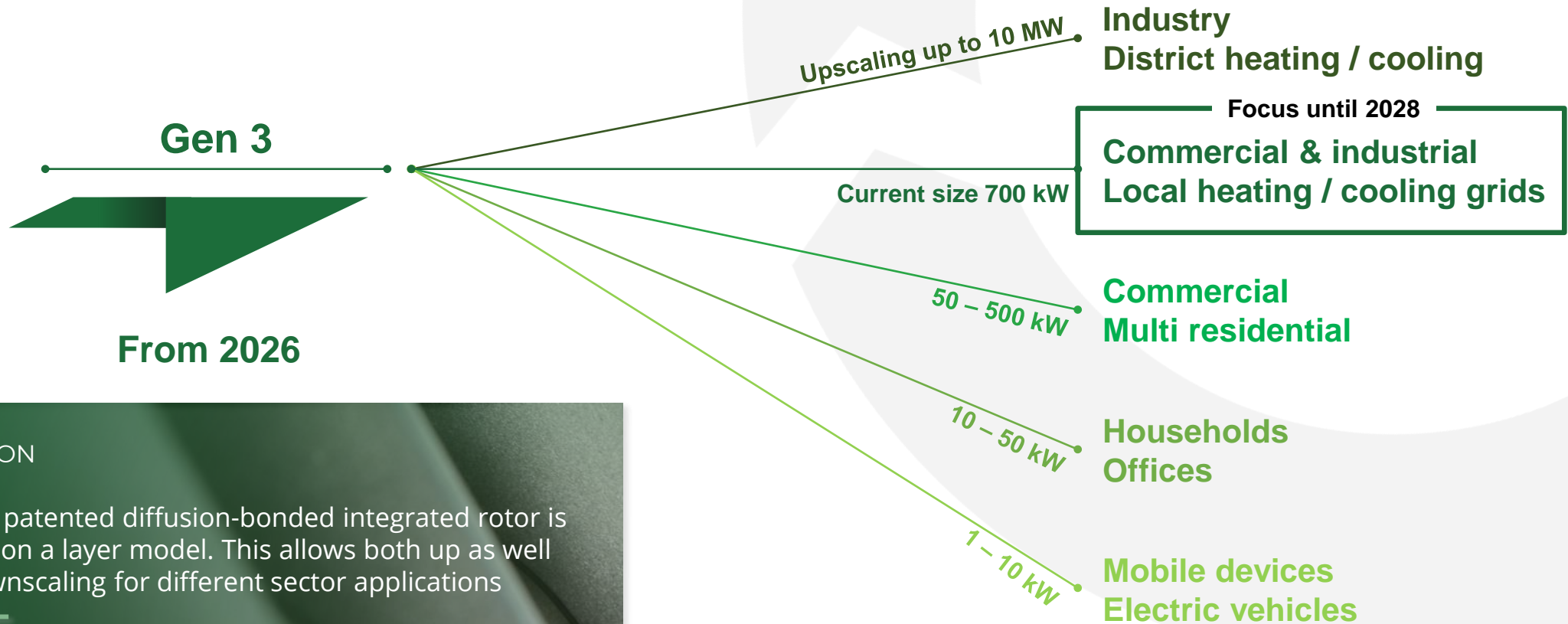


No flexibility in input
or output temperature



Centrifugal force enables 99% compression efficiency
Rotational speed **flexibly defines temperature lift**

HUGE DEVELOPMENT PERSPECTIVE OF PATENTED DESIGN PRINCIPLE



INNOVATION

Ecop's patented diffusion-bonded integrated rotor is based on a layer model. This allows both up as well as downscaling for different sector applications

INVESTMENT OPPORTUNITY

“**Game-changing**” heat pump technology

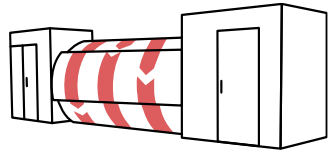
Austrian company, **20 EMPLOYEES**

Worldwide **68** granted **PATENTS**

Public funding + **PRIVATE EQUITY**
of **€ 20 mio** received

PARTNERSHIPS for sales & research

Looking for **€6 million Series A** alongside
strategic partner(s)



CONTACT US

WORK WITH US ON THE GREEN TRANSFORMATION

12/2023

**SERIES A
PITCH**

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