

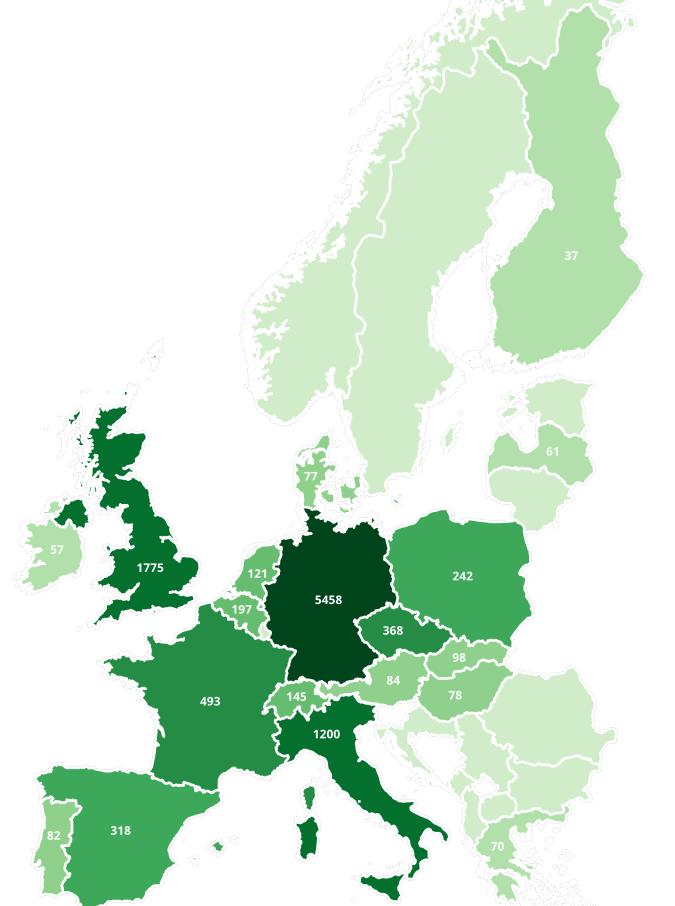




## BIOGAS ENABLES NET-ZERO

ENERGY TRANSITION SUCCESS FACTORS





EU-BIOGAS: INSTALLED ELECTRICAL CAPACITY [MW]



### 24/7/365 SUPPLY SECURITY

Unlike electricity from fluctuating wind and PV, <u>65 million EU households</u> can be supplied with <u>weather-independent</u>, <u>resilient</u> and <u>predictable</u> bioenergy



### LONG TERM ENERGY STORAGE

Power-to-gas with surplus electricity and biogenic  $CO_2$  could generate >40 billion m<sup>3</sup> of renewable gas, replacing >10% of EU natural gas consumption



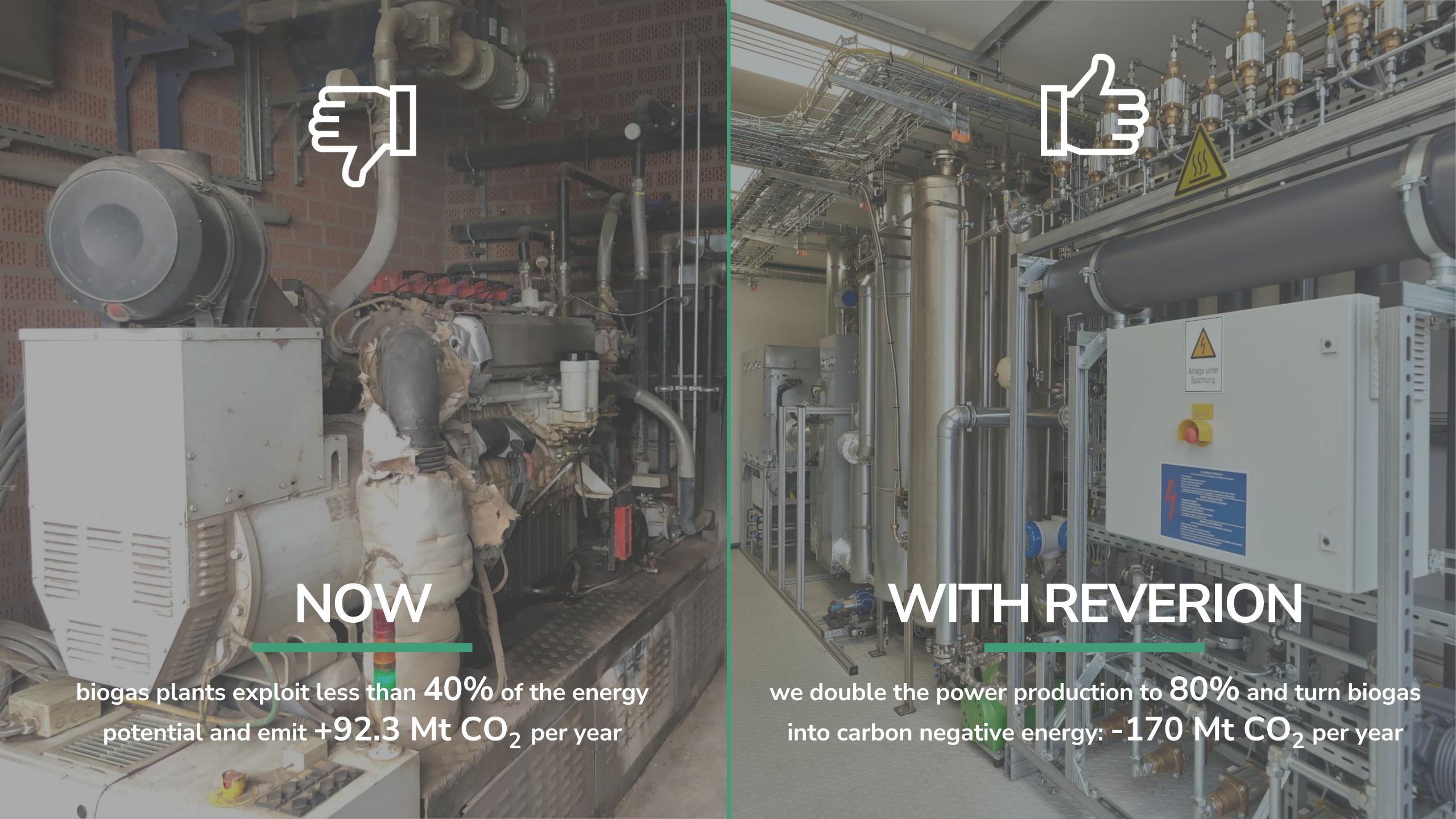
#### **DECENTRALISED SOLUTION**

Limited power grid transmission capacity (e.g. GER north-south) can be relieved and infrastructure costs reduced using **fossil substitutes** in the **existing gas grid** 



### REDUCE CO<sub>2</sub> EMISSIONS

Fit for 55: Cutting 9.6% of Europe's total emissions through biogas as the first climate positive energy source for economic carbon removal at gigaton-scale



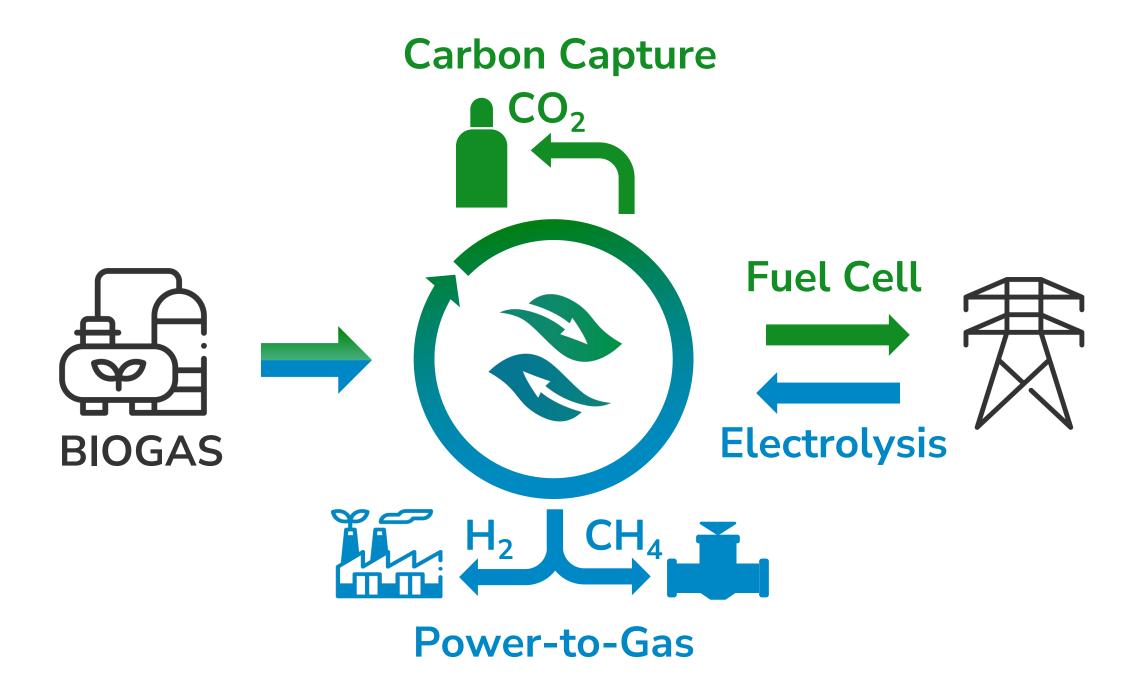


## THE SOLUTION: REVERION

IS THE GAMECHANGER FOR THE ENERGY OF TOMORROW

#### OUR INNOVATIVE ALL-IN-ONE SYSTEM DESIGN

Future-proofed through multifunctional application that offers our customers diverse and lucrative revernue streams from green electricity, renewable gases (hydrigen or natural gas subsitute), balancing power and CO<sub>2</sub> certificates





#### REVOLUTIONARY EFFICIENCY

Using solid oxide fuel cells in our patented system design instead of market-standard combustion engines doubles electricity production by achieving 80%<sub>el</sub> efficiency



#### **REVERSIBLE OPERATION**

Two operating modes with switching in seconds provide balancing power to stabilize the grids and maximum flexibility by generating green H<sub>2</sub>/CH<sub>4</sub> on demand



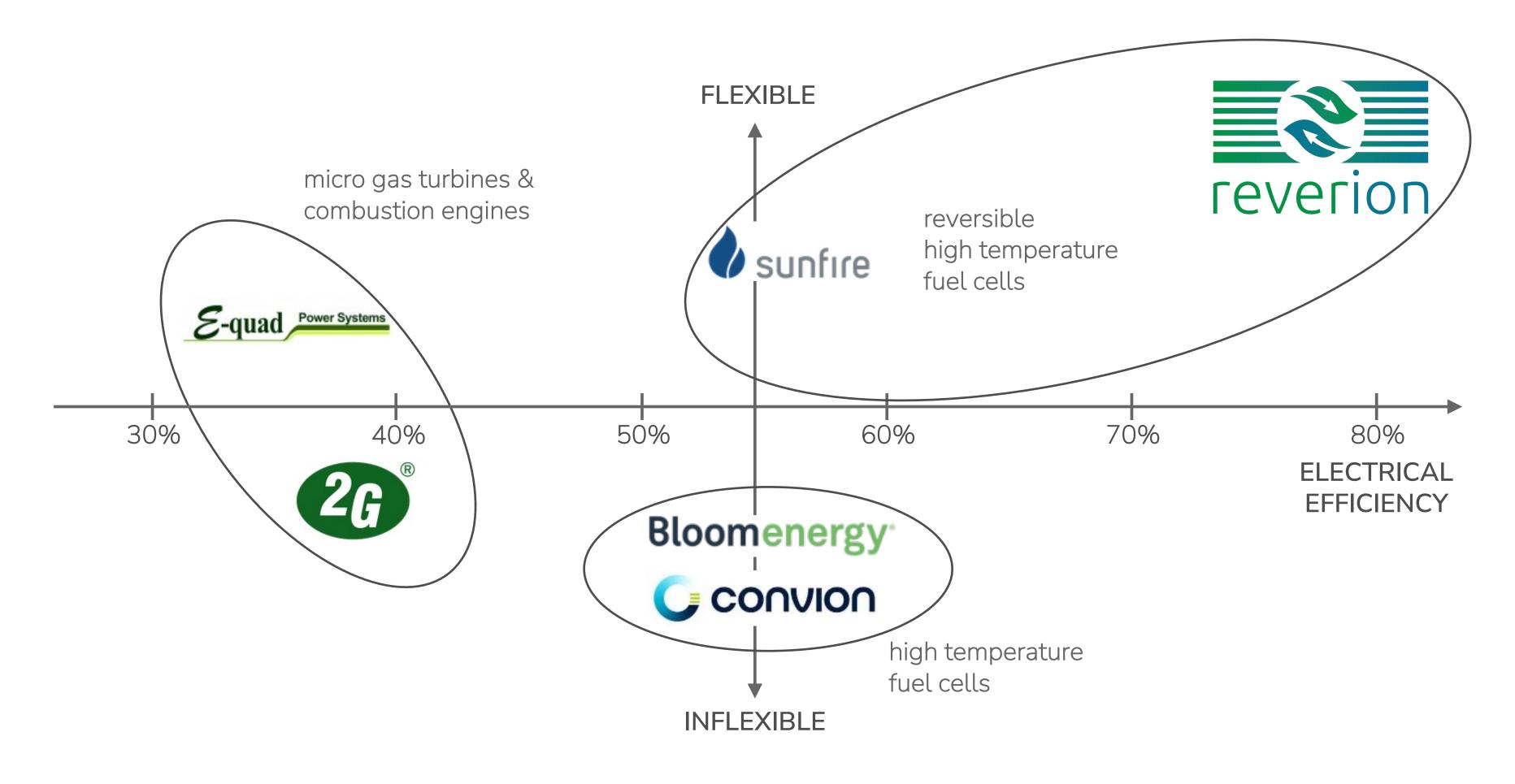
## **NEGATIVE CO<sub>2</sub> BALANCE**

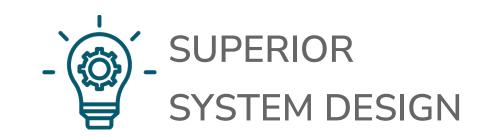
Integrated carbon removal technology using pure biogenic  $CO_2$  as the only waste product during power generation/fuel cell mode, ready for utilization or long-term storage (CCUS)



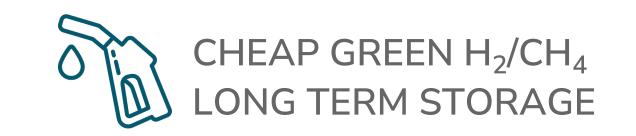
## COMPETITIVE ADVANTAGE

THROUGH HIGHEST FLEXIBILITY AND EFFICIENCY













# BUSINESS MODEL



## MANUFACTURE AND SALES

100 kW fuel cell | 250 kW electrolysis



### PLUG&PLAY CONTAINER SOLUTION

easy scalable plant size | instant installation



## SERVICE, CONTRACTING & LEASING

additional revenue | diversification



## OO FARMERS - ENERGY UTILITIES

established customer relations | direct marketing



## BIOGAS IS THE PERFECT ENTRY MARKET

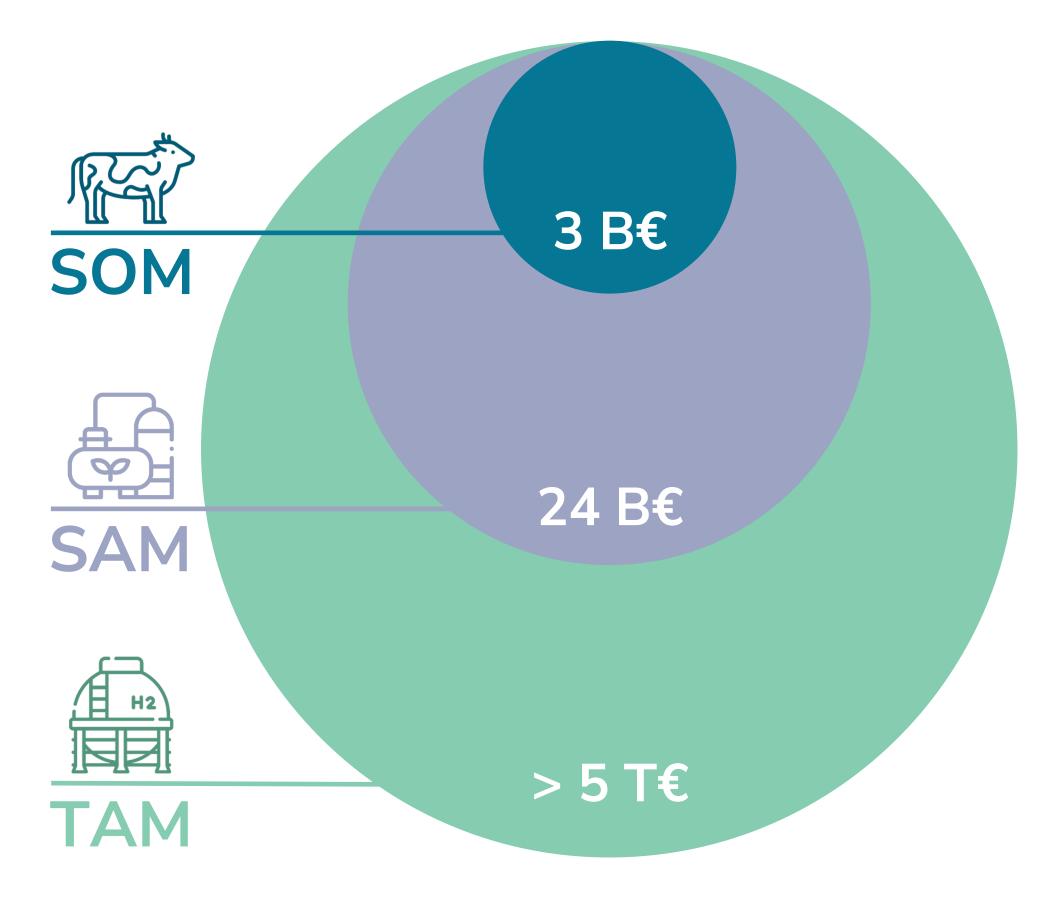
BUT THERE ARE MANY MORE MARKETS

### 3-STAGED-ROLLOUT PLAN:

NEW INSTALLATION
5% of 100,000 cattle farms

2 RETROFIT & UPGRADE existing biogas/biomethane plants

OTHER & FUTURE MARKETS hydrogen, carbon capture, data centers...



**EU MARKET POTENTIAL UNTIL 2030** 



## ROADMAP

FROM THE IDEA TO TECHNOLOGY LEADERSHIP









lab experiments & concept development

engineering & design Proof of Concept 10kW prototype

scale-up to 100kW unit

first (pre-)commercial units produced

rapid market penetration

<b>MARKET</b>
<b>READINESS</b>

IP & patents

orderbook & | market traction

k & | ion field trial biogas plant

piloting completed

2023

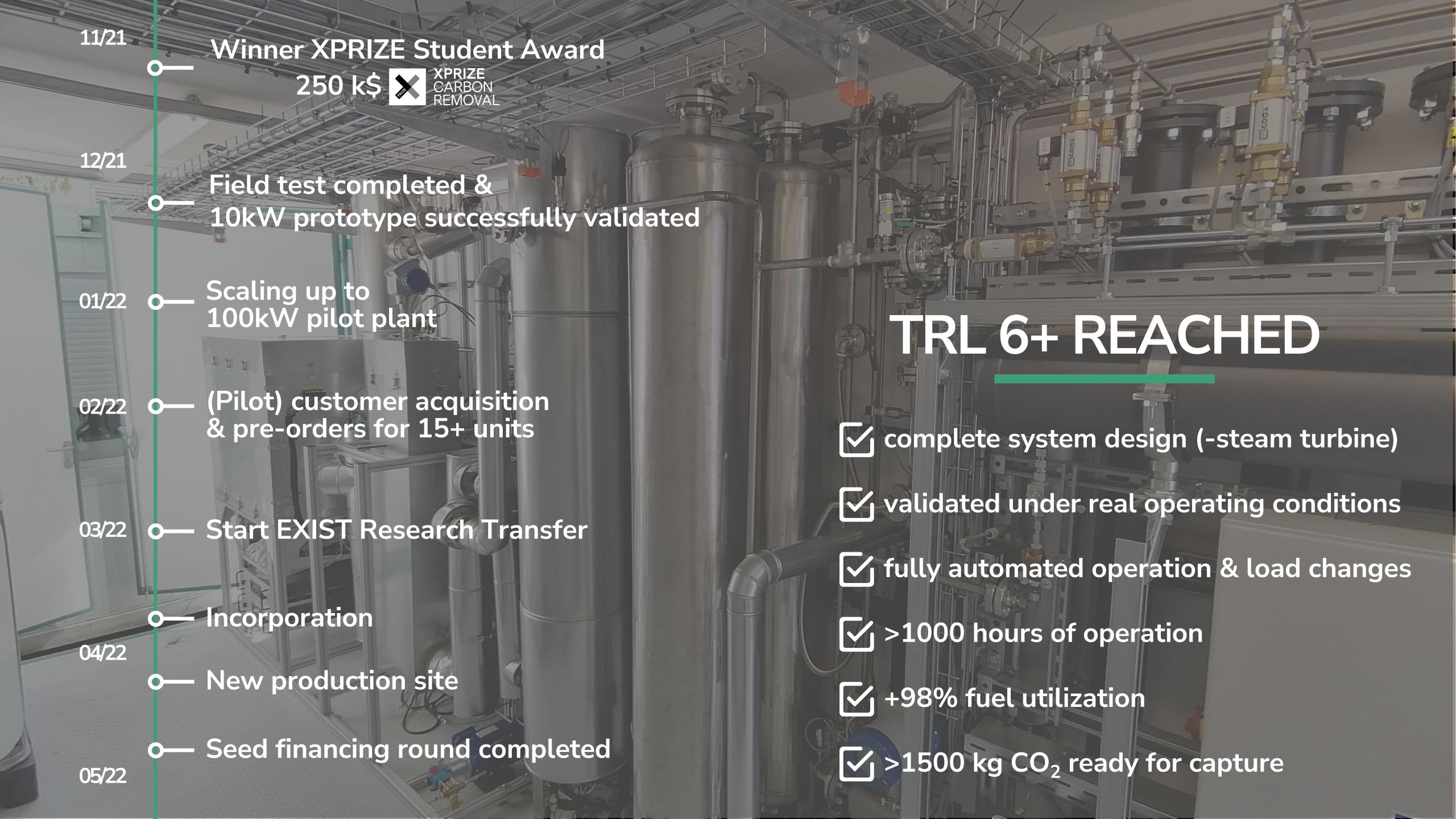
ramp-up production

2019 2020

2021

2022

2024





# WITH OUR UNIQUE SKILL SET & PARTNERS

OVERCOMING ALL POTENTIAL MARKET ENTRY BARRIERS



STEPHAN HERRMANN
CEO & Managing Director

- Inventor, strategist & pioneer
- Broad experience in business development and leadership
- Long-standing head for innovative power plant concepts at TUM



FELIX FISCHER
COO & Managing Director

- Talented organizer & communicator
- Responsible for quality management, procurement and recruiting
- Sales expert: successful customer acquisition for the first 2-3 years



MAXIMILIAN HAUCK CTO

- Expert in fuel cells, high temperature materials and thermofluid dynamics
- In-depth engineering & research background ensuring highest efficiencies and fast product launch



JEREMIAS WEINRICH
Head of Engineering

- Genius in fast prototyping and creative mind behind plant design
- >6 years of professional experience in manufacturing & commissioning of experimental testing facilities



LUIS POBLOTZKI
Head of Automation

- Software developer with hands-on mentality and engineering background
- Worked several years in measurement & control technology as well as process automation for power plants at E.ON



#### **MENTORING**

- Supporting business development and fast company building
- Providing continuous reality checks and market analysis



#### **DISTRIBUTION**

- Access to customer channels to overcome all potential market entry barriers
- Cooperative elaboration of attractive business cases in a highly regulated market



#### MANUFACTURE

- Supplier of core components or external service provider for the production of the 10kW prototype
- Established market players for rapid upscaling and production ramp-up

