



The E-Fuel Company\*

\*since 2016, with over 100 people fueling the future today.



PROBLEM

# Decarbonizing Hard-to-abate sectors



PROBLEM



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PROBLEM

SOLUTION



SOLUTION

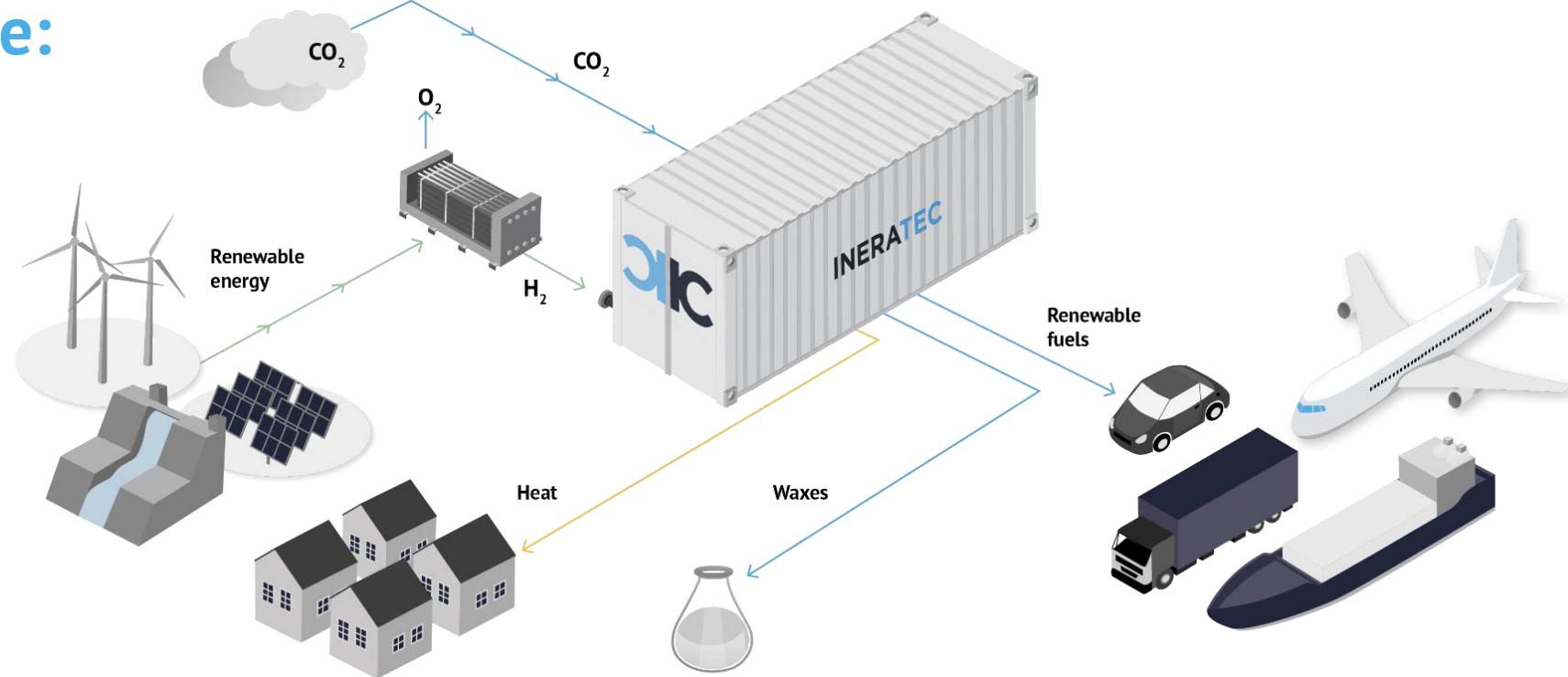
## Oilfield of the future: Power-to-Liquid



### THE POWER-TO-LIQUID SOLUTION:

We recycle the greenhouse gas CO<sub>2</sub> and use green hydrogen in our chemical plants to produce climate neutral e-fuels and e-chemicals.

INERATEC focuses **on high TRL, high product yield and robust thermochemical process pathways** to produce drop-in and ASTM compliant fuels.



SOLUTION

Conventional technologies  
do not match with  
renewable energies.

SOLUTION

**Re-thinking the chemical industry  
with the most compact and efficient  
chemical reactor technology  
in the world.**



A black and white photograph of a factory interior. In the center, a man wearing a cap and a dark jacket is leaning over, working on a piece of machinery. The background shows various industrial elements like shelving units filled with boxes and equipment. The lighting is bright, typical of a factory environment.

TECHNOLOGY

# Technology for a better world



TECHNOLOGY

# Key technology: Modular reactors for syngas and fuel production.



## MICRO-STRUCTURED REACTORS

Fischer-Tropsch, Methanol, RWGS, and methanation  
80x more compact than conventional reactors

## HIGHEST EFFICIENCY

2x more efficient  
High conversion and enhanced heat recuperation

## LOAD FLEXIBILITY

Operating with fluctuating renewable energy supply  
Short start-up and shut-down times

## IP AND KNOW-HOW

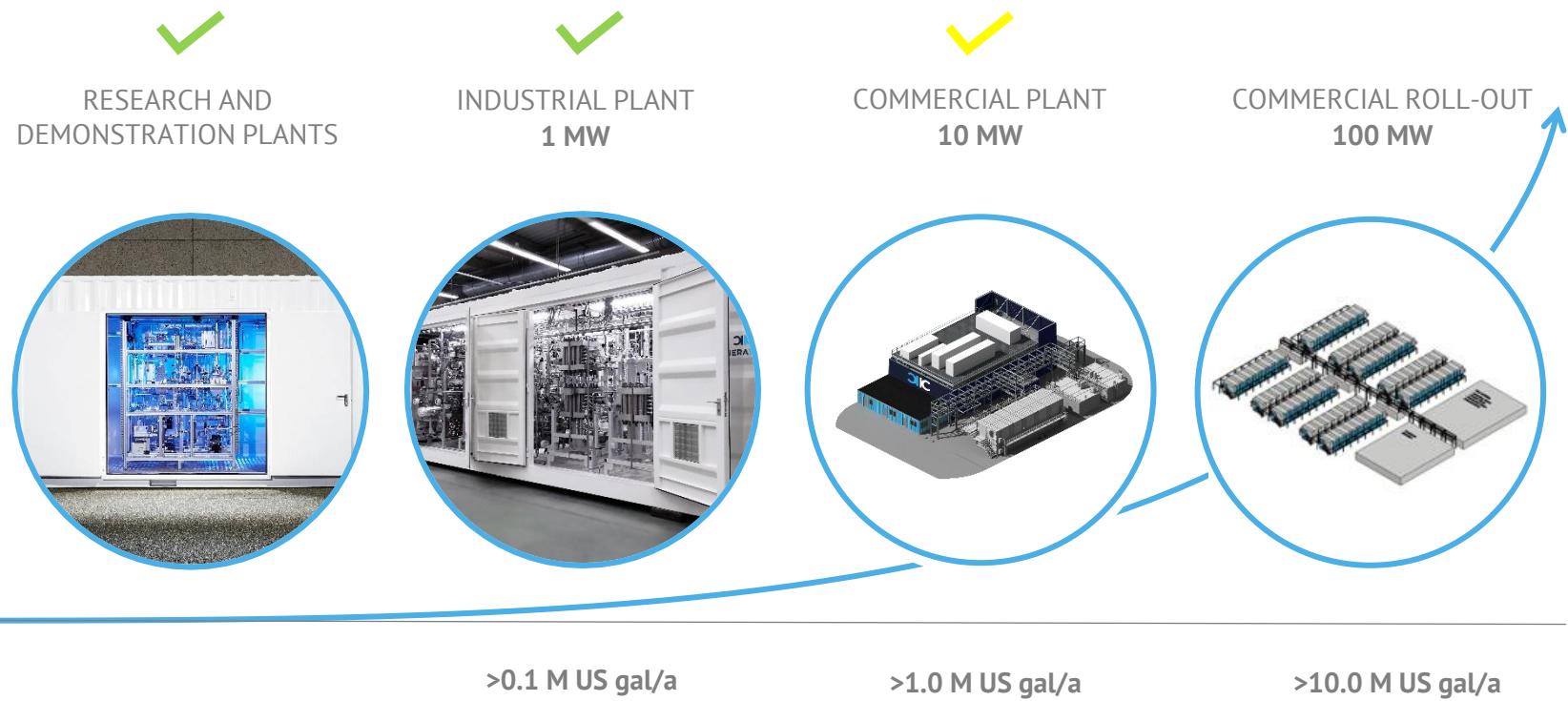
Patent-protected  
>28,000 hours of operational experience

## Scalability through modular approach



### SCALE-UP ROADMAP:

We supply chemical plant units along the availability of green hydrogen and carbon dioxide.



The background of the image is a high-angle aerial photograph of a city street. It shows a mix of modern high-rise buildings and lower residential structures. There are several cars parked along the sides of the street, and some green trees are scattered throughout the urban landscape.

MARKET

Strong tailwinds  
and the urge to reduce  
carbon emissions fast



## Unique market opportunity driven by regulatory pressure and demand/supply gap

### Regulation

- Blending quotas and tax incentives in place in Europe and U.S.
- Penalties / ban of operation if companies do not comply

### Demand

- Companies have no choice other than to comply with regulation
- Guaranteed strong demand of e-fuel in various industry sectors

### Supply

- Limited e-fuels available: Strong pull market & excess demand due to quotas
- Seller's market – high green premiums can be achieved



Following quotas is essential for companies to keep their freedom to operate



## Regulatory environment providing strong tailwinds

✓ UN JOINT CREDITING MECHANISM – JCM (UN)

✓ INFLATION REDUCTION ACT (US)

✓ H2Global (GER)

✓ ReFuelEU AVIATION (EU)

✓ FUEL EU MARITIME LAW (EU)

✓ RENEWABLE ENERGY DIRECTIVE (EU)



IC  
INERATEC

✓ CARBON CONTRACT FOR DIFFERENCE (GER)

✓ CARBON BORDER ADJUSTMENT MEASURE (EU)

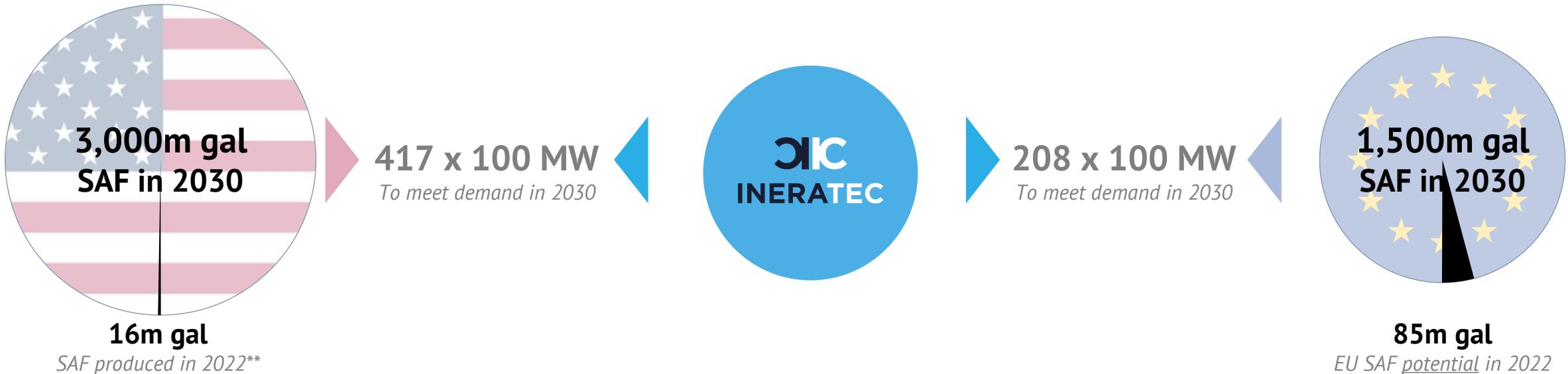
✓ FIT-FOR-55-PACKAGE (EU)

✓ EMISSION TRADING SYSTEM (EU)

MARKET DRIVERS

## U.S. and EU SAF demand far beyond expected availability

>600 x 100 MW Plants\* required to fulfill SAF Demand  
for Europe and US by 2030



\* 100 MW plant ~ 12 M US gal e-Fuel with 60% eSAF yield

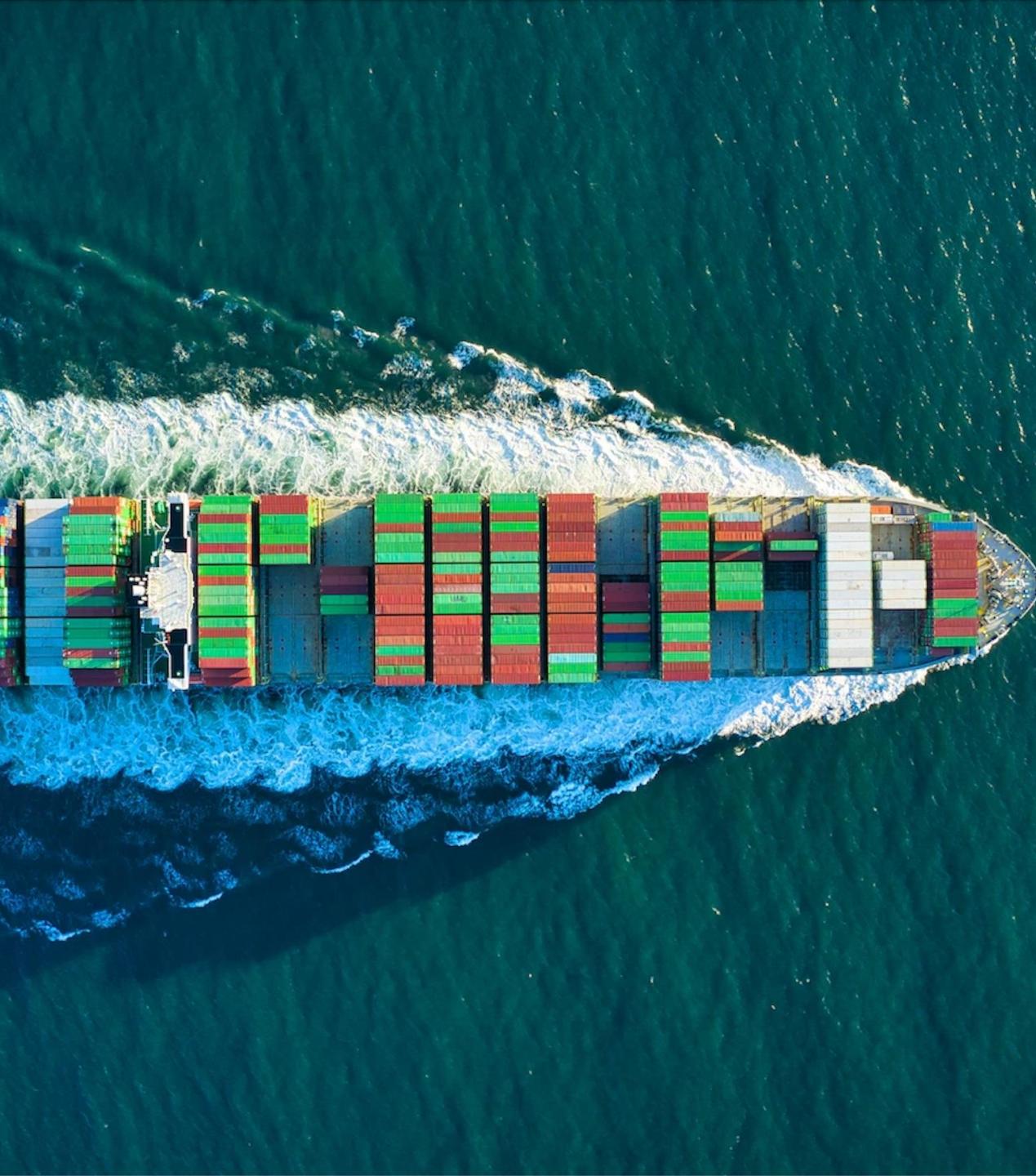
\*\*<https://www.gao.gov/products/gao-23-105300>

A large cargo ship is shown from a low angle, sailing across a dark blue ocean. In the background, a range of mountains with snow-capped peaks is visible under a clear sky.

BUSINESS MODELS

# Fueling the future





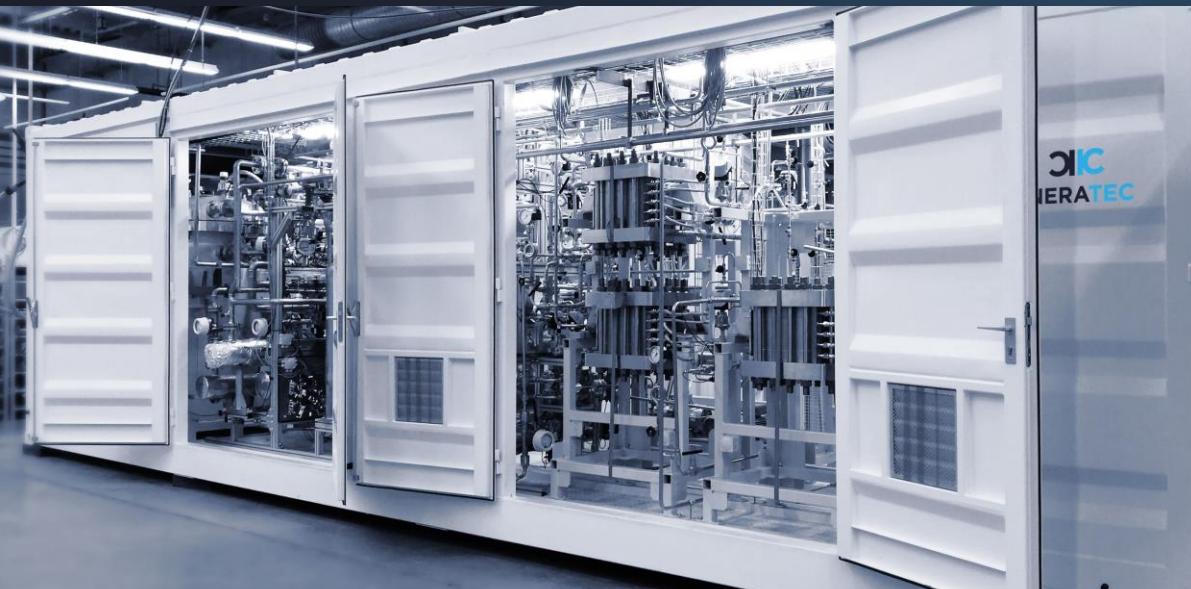
BUSINESS MODELS

## Power-to-X-Plants

As a technology provider,  
we offer modular chemical plants for Power-to-X  
applications.



We sell



## E-Fuels and E-Chemicals

As a solution provider, we deliver drop-in ready  
SAF (Sustainable Aviation Fuel), AvGas (Aviation  
Gasoline), and e-diesel, as well as e-waxes and e-  
methanol for sustainable chemical products.



SUCCESS STORIES

We have worked with more  
than 30 customers and 50  
partners globally.





TECHNOLOGY

## Industrial pilot plant ~ 0.1m gal/a



### PRODUCTS:

Drop-in clean paraffinic diesel and synthetic waxes

### CUSTOMER:

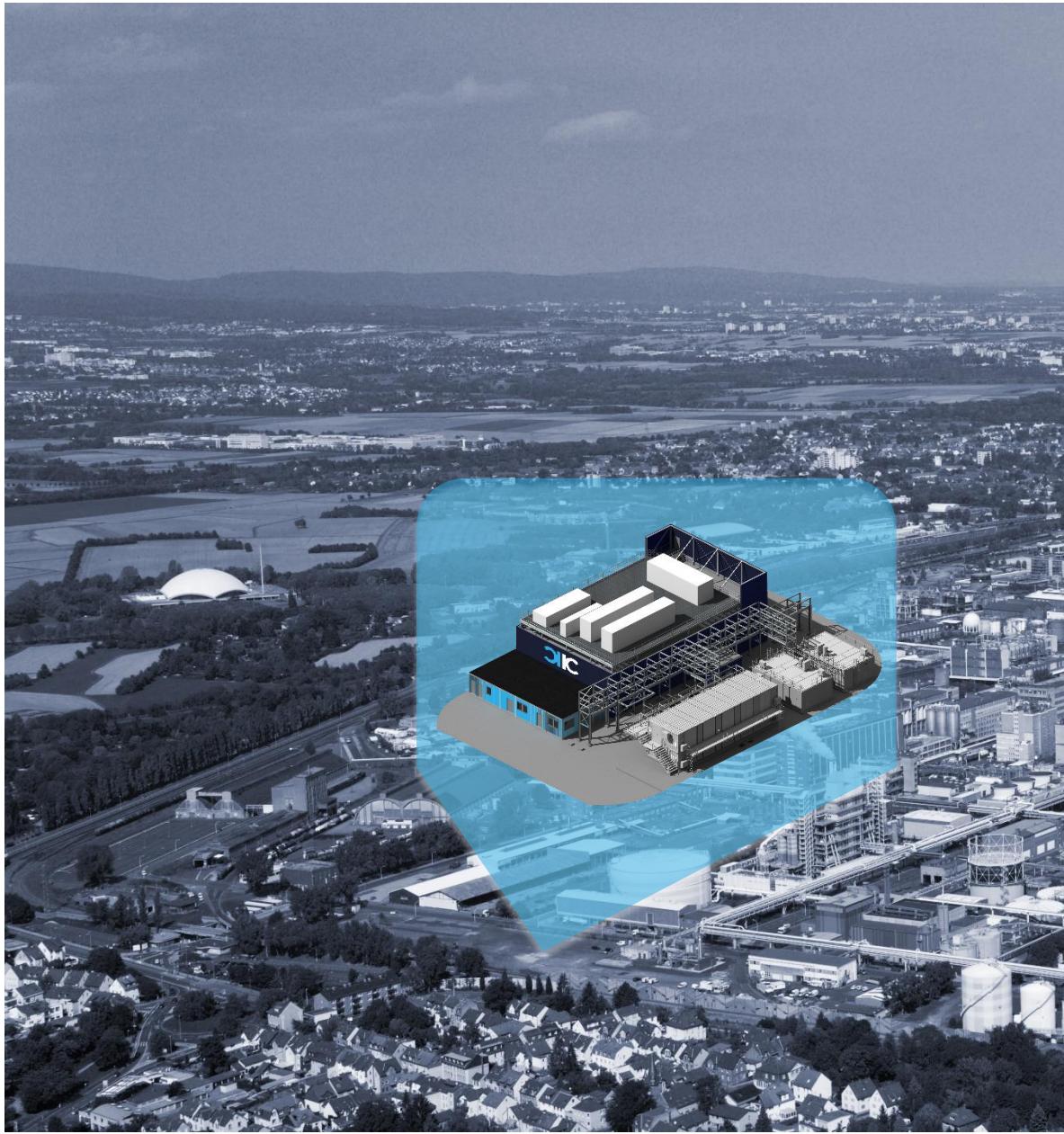
H&R Group

### STATUS:

In commissioning

### LOCATION:

Hamburg, Germany



TECHNOLOGY

## Commercial pilot plant: ~ 1m gal/a



### PRODUCTS:

Drop-in e-fuels and e-chemicals for aviation, shipping, road transportation and the chemical industry.

### TARGET:

Build, own, and operate plant, sell fuels  
Blueprint for worldwide operation of owned plants

### STATUS:

Start of production: 2024

### LOCATION:

Frankfurt/Main, Germany

### PARTNERS:



7MW PIONEER PLANT

**DKC INERATEC**

# FUELING THE FUTURE

Frankfurt Höchst, 19.04.2023

Ab 2024  
jährlich bis zu  
**2.500 t**  
e-Fuels



GROUNDBREAKING CEREMONY, 19.04.2023

from left to right:

Dr. Joachim Kreysing (CEO Infrasev Höchst GmbH), Tarek Al-Wazir, Hessian Minister of Economics, Energy, Transport and Regional,

Dr. Tim Böltken (CEO INERATEC GmbH), Caspar Schuchmann (CFO INERATEC GmbH)

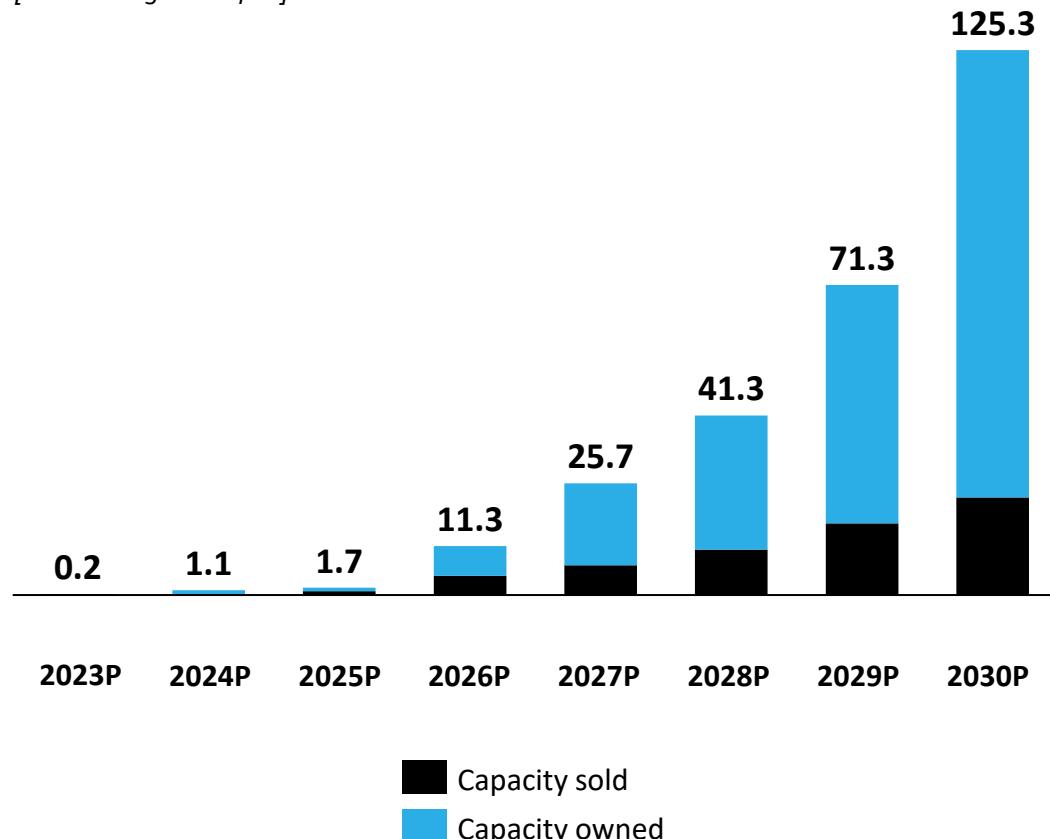
# FUELING THE FUTURE



**FINANCIALS**

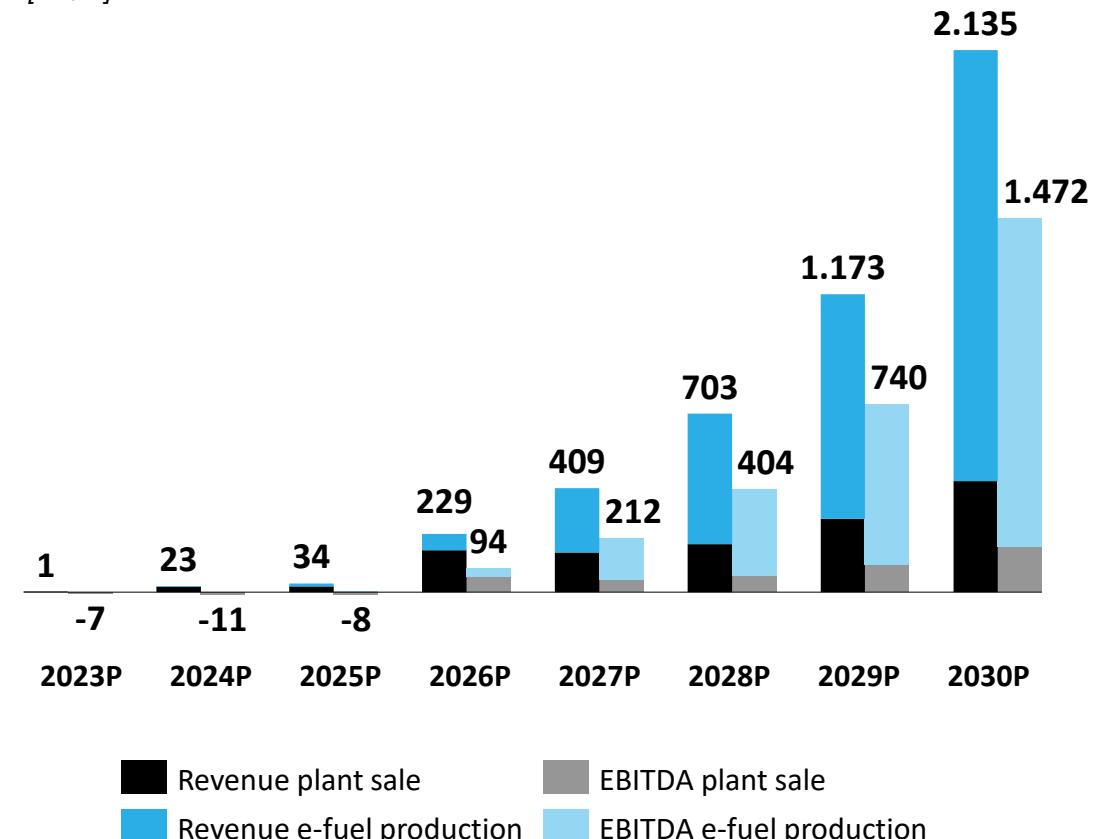
## E-FUEL PRODUCTION CAPACITY

[in million gallons p.a.]



## MARKET PRICE CASE: REVENUE/EBITDA PROJECTIONS

[in \$m]



\* E-fuel production (BOO) figures shown on 100% basis. INERATEC intends to take 10-20% stake in BOO projects.



TEAM

## The team behind **INERATEC**

### CHIEF EXECUTIVE OFFICER:

**Dr.-Ing. Tim Boeltken**

Co-Founder Tim brings top industry expertise in the field of reactor design, chemical processes and catalysis.

### CHIEF COMMERCIAL OFFICER:

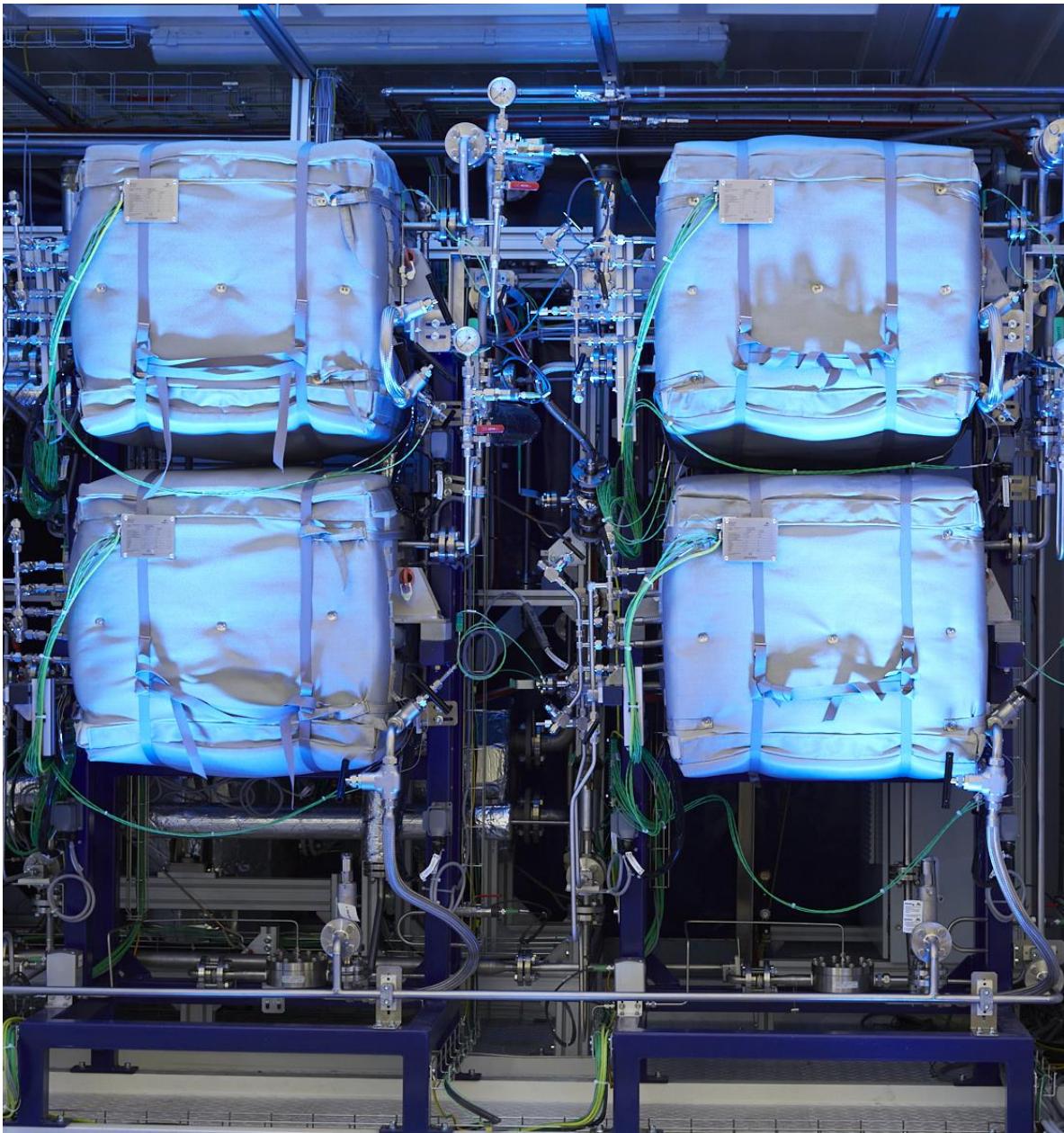
**Philipp Engelkamp**

Co-founder Philipp pioneers the commercialisation with his business drive and deep market knowledge.

### CHIEF FINANCIAL OFFICER:

**Casper Schuchmann**

Has raised already > USD 800m to build and exit leading shipping and renewable energy companies via IPO.



## USE OF FUNDS

# Become a Pioneer with us €75m Series B – Use of Funds

### €30m OPERATIONAL COSTS AND BUSINESS EXPANSION

Ongoing operating costs and expansion of the organization  
Extending existing competencies  
Potential M&A activities

### €40m SERIAL PRODUCTION, REACTOR SCALING, FRANKFURT-HÖCHST

Introduction of serial production with capacity of up to 100 MW p.a.  
Development of new reactors with higher capacities  
Final equity tranche to secure financing for Frankfurt-Höchst

### €5-100m ADDITIONAL GROWTH CAPITAL

Securing strategic expansion and market leadership  
Further growth acceleration and strategic opportunities globally

CONCLUSION

## **INERATEC** **The leading e-Fuel company**

- ▶ PATENTED TECHNOLOGY WITH BEST-IN-CLASS UNIT ECONOMICS
- ▶ STRONG MANAGEMENT TEAM
- ▶ UNIQUE MARKET OPPORTUNITY WITH ECONOMIC AND REGULATORY TAILWINDS
- ▶ PERFECTLY POSITIONED TO ESTABLISH THE MARKET LEADER FOR E-FUELS (TIME-TO-MARKET)
- ▶ MULTIPLE EXIT OPPORTUNITIES

GET TO KNOW US

# Get in touch

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The E-Fuel Company