



DESTINATION DEFOSSILIZATION

**Press kit for the opening
of INERATECs pioneer plant
„ERA ONE“**

CONTENT

1.	About INERATEC	3
a.	Management	3
b.	Company history	4
2.	About „ERA ONE“	7
a.	Overview of the pioneer plant	7
b.	The project timeline	8
c.	Opening speech by Tim Böltken, CEO INERATEC	2
3.	Your contact	2

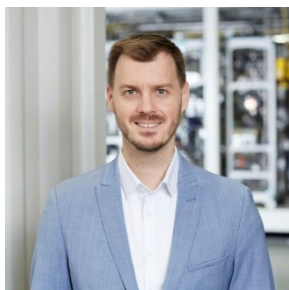
1. About INERATEC

INERATEC - background information:

INERATEC stands for defossilization and decarbonization. The company produces e-fuels and e-chemicals: CO₂-neutral substitutes for fossil fuels used in aviation, shipping, and the chemical industry. The modular, scalable plants use renewable hydrogen and biogenic CO₂ to produce synthetic kerosene, gasoline, diesel, waxes, methanol, and natural gas. The company is based in Karlsruhe and is supported by various international investors.

a. Management

Dr. Tim Boeltken



Tim, a co-founder of INERATEC as well as its Chief Executive Officer, guides the company's strategic direction and innovation-related efforts, leading it into a new era of energy. He holds a PhD in chemical engineering from the Karlsruhe Institute of Technology (KIT) and has extensive industrial experience in the fields of hydrogen production, catalysis and petrochemicals. Before co-founding INERATEC in 2015, he was a research assistant at KIT and project manager at hte GmbH, a subsidiary of BASF. Under his leadership, INERATEC has received numerous awards, including the German Founders' Award, and has established itself as a pioneer in synthetic fuels.

Maximilian Backhaus



Max, who has been Chief Commercial Officer at INERATEC since 2024, advances the company's global expansion and commercialisation efforts. He began his professional career as a strategy consultant in the chemical and pharmaceutical industries. He then spent a decade at HelloFresh, most recently as Global Chief Marketing Officer. During this period, he played a pivotal role in the company's growth – from a start-up to a global market leader with annual turnover of €7.6 billion – enabling HelloFresh to achieve profitability and secure its IPO in 2017. Max holds a master's degree in management from WHU – Otto Beisheim School of Management.

Caspar Schuchmann



Caspar joined INERATEC's management team as Chief Financial Officer in 2022. Before that, he worked in various management positions, including Director of Corporate Finance at MPC Capital AG. As Managing Director at MPC Container Ships GmbH & Co. KG, he acquired over €800 million in equity and debt capital in addition to contributing to the successful IPO of a shipping company. Caspar brings to INERATEC extensive experience in capital markets, corporate development and strategic planning, which he uses to drive growth and achieve the company's objectives.

Ingo Katz



Ingo, Chief Operating Officer at INERATEC, has been an expert at building and scaling companies for many years. He has a degree in mechanical engineering and began his career in development before taking on his first job managing two workshops with a total of 250 employees. With over 30 years of management experience, Ingo has been responsible for the advancement and standardisation of INERATEC technology since 2023. His portfolio includes responsibility for the entire production of plants and reactors as well as for the operation of already installed plants. In addition, he oversees quality and project management.

b. Company history

Jahr

- 2016 The year INERATEC was founded: on May 20th 2016, Dr. Paolo Piermartini, Dr. Tim Böltken, Philipp Engelkamp and Prof. Peter Pfeifer founded the spin-off from the Karlsruhe Institute of Technology (KIT). After years of research at KIT and intensive discussions about market potential, the founding team decided to take the plunge into entrepreneurship. Together, they pursue a major goal: to industrialize the technology so that synthetic fuels replace all fossil crude oil in the long term. They secure the patents for the microstructured reactor design and put their vision into practice.
- 2016 The founding of the company is accompanied by the first customer order: the first demonstration-scale power-to-liquid plant is sold. It is delivered to Finland in September, where it produces sustainable e-Fuels from solar energy and CO₂ for the first time.
- 2018 To accommodate system production and the constantly growing team, INERATEC moves to its current headquarters in Karlsplatz (Karlsruhe) in April. There is room to build and develop for production and even for the company's own test plant.
- 2018 In September 2018, INERATEC receives seed financing from the Hightech-Gründerfonds with the special support of KIT as an additional investor.
- 2018 INERATEC is awarded the German Founder Award in the Start-up category.
- 2019 The world's first integrated plant for the production of e- Fuels from CO₂ and hydrogen with INERATEC's participation begins operation. The special feature of this plant: as part of the Kopernikus P2X project, CO₂ filtered directly from the ambient air is being used for the first time to produce synthetic fuels in collaboration with Climeworks and Sunfire.
- 2020 INERATEC delivers its first industrial-scale plant: the pilot plant is installed in Werlte in northern Germany to produce 350 tons of e-Fuels per year from biogenic CO₂ and renewable hydrogen.
- 2020 INERATEC's pioneering spirit and the team's tireless commitment are recognized with the Startup Energy Transition Award 2020.
- 2021 The second industrial pilot plant is manufactured and delivered to Hamburg. This is INERATEC's second plant in an industrial environment, focusing for the first time on the production of sustainable waxes for the chemical industry.



- 2021 Over the course of the year, INERATEC not only doubles its team, but also its production and office space in Karlsruhe and prepares to manufacture systems at a commercial level. In addition, INERATEC gains impact investors Planet A, Extantia and FO Holding from July.
- 2022 INERATEC closes a Series A financing round and welcomes Engie New Ventures, Safran Corporate Ventures and MPC as strategic industry partners to complement the existing investor portfolio.
- 2022 INERATEC is honored with the Next Economy Award.
- 2023 Fueling Future Mobility - the groundbreaking ceremony for Europe's biggest commercial power-to-liquid plant in Frankfurt Höchst, ERA ONE, takes place in April 2023. At the same time, the manufacturing of the first production modules begins in Karlsruhe.
- 2024 The year starts with a Series B financing round: The venture capital financing is led by US investor Piva Capital with additional international participation from HG Ventures, TDK Ventures, Copec WIND Ventures, RockCreek, Emerald and Samsung Ventures as well as increased support from existing investors, including major companies such as ENGIE New Ventures, Safran Corporate Ventures and Honda Motors Ltd.
- 2024 INERATEC becomes part of the Global Clean Tech 100 and thus part of the most promising technology companies for a sustainable future.
- 2025 The European Investment Bank (EIB) and Breakthrough Energy Catalyst provide a €70 million financing package to INERATEC as part of the EU-Catalyst partnership. This financing supports the development and operation of the ERA ONE pilot plant.

2. About „ERA ONE“

a. Overview of the pioneer plant

PIONEER PLANT „ERA ONE“:



A fossil-free future – The pioneering plant in Frankfurt Höchst has successfully commenced operations, making a decisive contribution to the defossilized mobility of tomorrow. The start of operations in May 2025 is a special milestone for INERATEC's pioneering project, which began with the groundbreaking ceremony in April 2023 and was realized in several stages – from

module production to commissioning.

The plant is Europe's largest plant for the production of e-Fuels using the Fischer-Tropsch process and sets new standards in the production of synthetic, climate-friendly fuels. Up to 8,000 tons of CO₂ are recycled here annually and converted into around 2,500 tons of sustainable e-Fuels and e-Chemicals together with hydrogen.

INERATEC is primarily targeting sectors that are difficult to decarbonize, such as aviation, shipping, and heavy-duty transport, for which electrification is not a viable solution. The plant supplies these sectors with sustainable aviation fuel (e-SAF) and synthetic diesel, thereby reducing their CO₂ emissions and negative environmental impacts.

The modular plants enable efficient scaling and flexible global deployment. INERATEC is already driving forward international projects in Chile and Italy, among other places, to achieve global availability of sustainable e-Fuels.

One of INERATEC's most important partners in Frankfurt is Infraser. Infraser has created important synergies for the pioneering project. The industrial park operator supplies the two key raw materials for the power-to-liquid plant: CO₂ and hydrogen. The CO₂ comes from a biogas plant and is recycled in e-fuel production. The hydrogen is a by-product of chlorine production. In addition to these basic materials, Infraser provides INERATEC with resources such as electricity, water, and compressed air. They also offer infrastructural support such as site security, assistance with regulatory procedures such as BImSchG approvals, and expertise in operational matters.

A detailed overview of the project milestones

[Here](#) are all the milestones of the pioneer plant since the groundbreaking ceremony in 2023.

b. The project timeline



c. Opening speech by Tim Böltken, CEO INERATEC

Note to editors: The following quotes may be used for publication.

- „Just under ten years ago, INERATEC was nothing more than an idea, a small team with a big vision. **Today, we stand here - in front of Europe's largest plant for synthetic fuels produced via the Fischer-Tropsch process.** This milestone demonstrates what can be achieved when technology, determination, and partnerships come together.“
- “Today marks the beginning of the era of green molecules. For decades, fossil fuels have shaped our world – they have moved us forward, kept us warm and protected us. As fuels, plastics and chemicals. But these achievements had their price: environmental pollution and the climate crisis. **With ERA ONE, we are writing a new chapter: we are replacing fossil molecules with green molecules.**”
- „**Our plants are the oil fields of the future – with one crucial difference: our products are climate neutral.** The fuels we produce here release the same amount of CO₂ as we extract from the atmosphere during their production. “
- „At INERATEC, we have revolutionized the Fischer-Tropsch process using microstructured chemical reactors. **Our plants are efficient, compact, and flexible, making them one of the technical cornerstones for the climate-neutral transformation of our industry and mobility. All of this is developed and made in Germany.**“
- „With ERA ONE, we are taking the first step away from fossil fuels. **Up to 2,500 tons of e-Fuels will be produced here each year.** But that is only the beginning. We have ambitious goals: the upcoming plants will have a capacity many times greater, allowing fuel volumes to increase exponentially.”
- „**The global goal must be to replace fossil fuels as rapidly and comprehensively as possible.** We aim to bring all key players together to develop solutions: from policymakers to producers and consumers across the entire value chain.”
- „**Europe has the potential to become a global leader in the production and use of e-Fuels. That's not just key for Europe's competitiveness, but also for its resilience.** But it needs the right framework and conditions for use—and a coordinated, holistic approach across the EU. **Politicians need to lay the groundwork for this.**”
- „Deep tech start-ups such as INERATEC face particular challenges: their capital requirements are enormous. **With this in mind, we welcome the new EU start-up and scale-up strategy presented by the European Commission in May 2025. Measures such as these are important for closing financing gaps.** However, it is clear that Germany and Europe must continue to work on implementing the EU initiatives quickly and efficiently in order to consistently promote innovation in key technologies.”

3. Your contact



INERATEC GmbH

Isabel Fisch

+ 49 162 1852663

isabel.fisch@ineratec.de

Mario Pistorius

+49 173 6860934

Mario.pistorius@ineratec.de