

June 2024

# NEXTCHEM COMPANY PROFILE

---

# WHO WE ARE

## WHO WE ARE

NEXTCHEM is the MAIRE's company dedicated to Sustainable Technology Solutions. Thanks to the extensive know-how of nitrogen, hydrogen, carbon capture, fuels, chemicals and polymers, we offer innovative solutions and processes to fully enable the energy transition.

02

# OUR GROUP



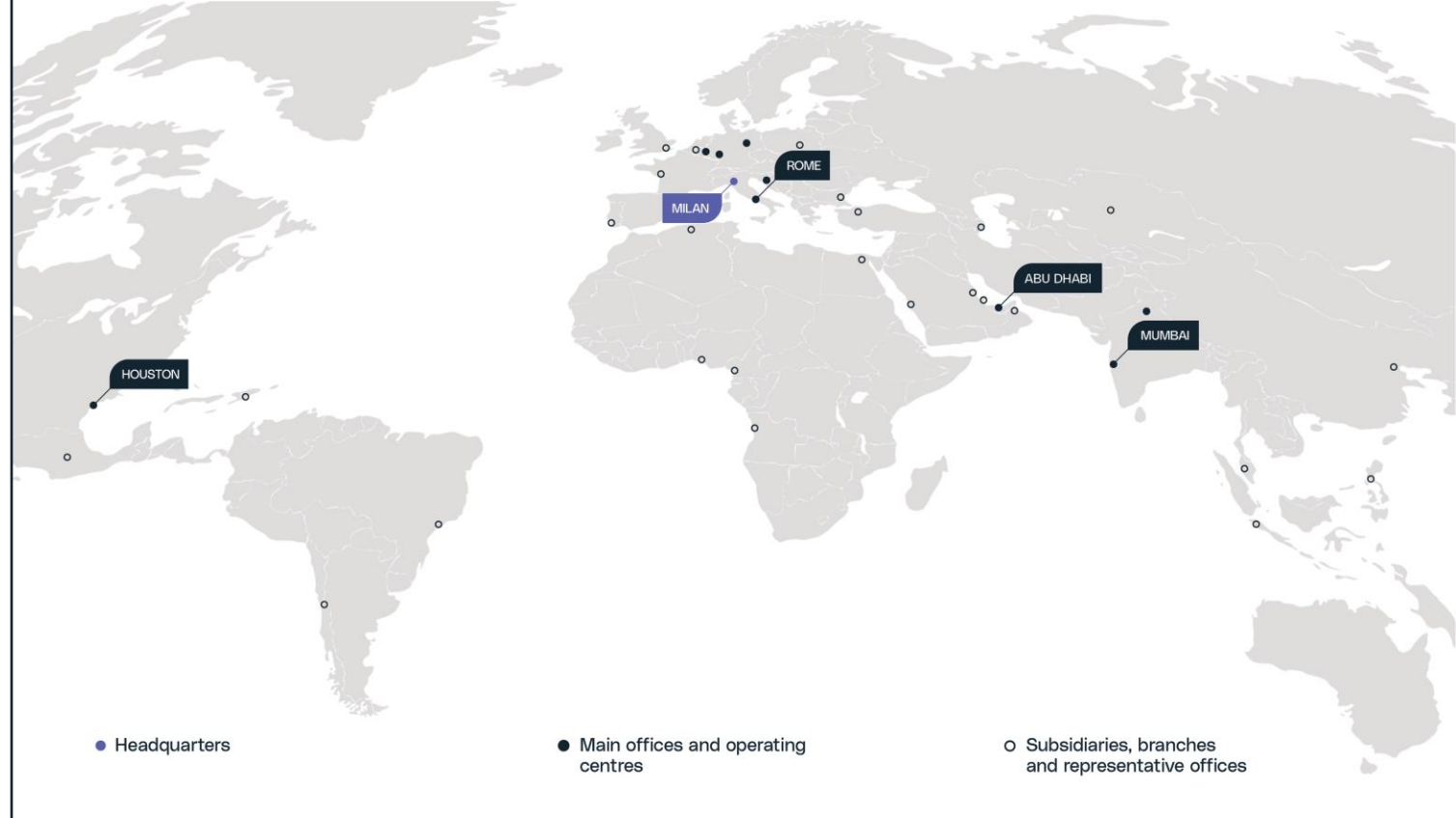
# PURPOSE

We believe in a future where humanity, industries, and the planet can all thrive.

# MAIRE AT A GLANCE

We are a technology and Engineering Group that develops and implements innovative solutions to enable the Energy Transition.

We offer **Sustainable Technology Solutions** and **Integrated E&C Solutions** in nitrogen fertilizers, hydrogen, circular carbon, fuels, chemicals, and polymers.



4.3

Revenues (€ billion)

15.0

Backlog (€ billion)

129.5

Net Income (€ million)



~45

Countries



~8,300

Employees

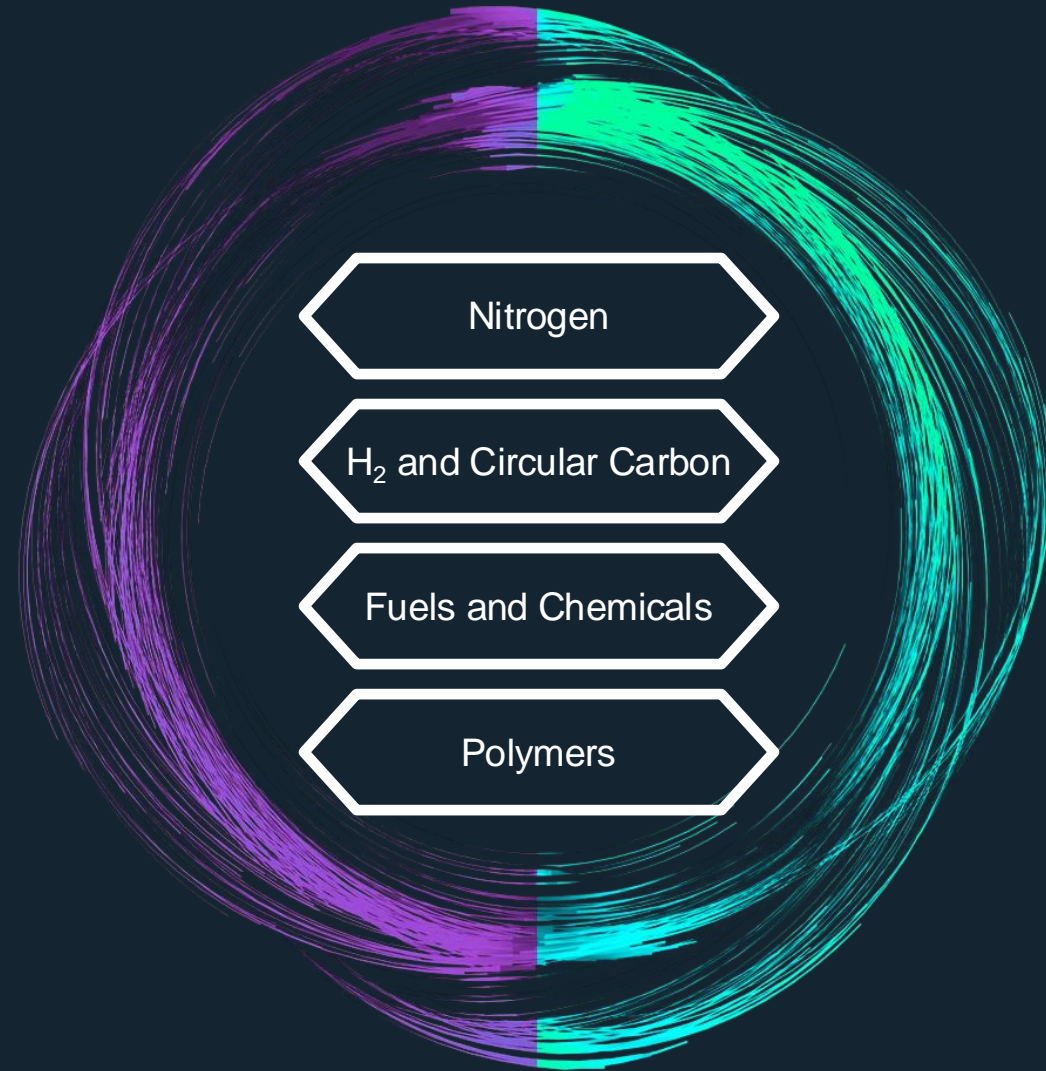
29,000+

People engaged worldwide\*

Data as of 31<sup>st</sup> December, 2023

\*The data includes employees, collaborators and sub-contractors

# MAIRE CORE BUSINESS



# HOME TO THOSE WHO MAKE TO INSPIRE

## SUSTAINABLE TECHNOLOGY SOLUTIONS

---

We offer **Sustainable Technology Solutions** to fully **ENABLE** energy transition. Innovative and sustainable processes, optimizing conventional ones and creating new processes from non-fossil feedstock.



## INTEGRATED E&C SOLUTIONS

---

We **MAKE** energy transition happen through our **Integrated E&C Solutions**. We bring into reality complex plants and frontier projects designed to provide access to the latest technologies.

## PROJECT DEVELOPMENT



# PROVIDING TOMORROW'S TECHNOLOGY



## NEXTCHEM

MAIRE Sustainable Technology Solutions

---

Technology  
Licensing

---

Process Design Package  
Basic Engineering Design

---

Proprietary Equipment  
& Catalysts

---

Services and  
Digital Solutions

---

Selected Specialty  
Solutions

# DELIVERING FUTURE-PROOF PLANTS



# TECNIMONT

MAIRE Integrated E&C Solutions

---

Front End  
Engineering Design

---

Engineering  
& Procurement

---

Engineering, Procurement  
& Construction (management)

---

Upgrading  
& Revamping

---

Operations  
& Maintenance

# PROJECT DEVELOPMENT REMARKS

## OUR DISTINCTIVENESS



---

Investors & Financial  
Sponsors Involvement

---

Capital Structuring

---

Project Structuring:  
Feedstock, EPC, Offtake

---

Public Funding  
& Grants Coordination

---

Co-Development  
& Partnering

03

# NEXTCHEM

# TOGETHER, WE PROPEL THE WAY FORWARD.

Our technology solutions are designed to make the energy transition happen by slashing the environmental impact of traditional industries, leveraging our consolidated know-how in hydrogen and carbon-capture technologies, transforming waste into valuable resources like chemicals, fuels, and recycled plastic, finding new processes from non-fossil feedstock.



# TECHNOLOGY EXCELLENCE STRENGTHENED OVER TIME

**Fausser Montecatini** pioneers the ammonia production process from renewables.

**Stamicarbon** is established in the Netherlands, bringing crucial technological and engineering skills. This marks the start of a journey towards global leadership in the fertilizer market.

The Italian engineering company Selas Italia (later known as KTI) is founded. Specializing in high-temperature technologies, **KTI** brings expertise in customized, advanced solutions for hydrogen and syngas production.

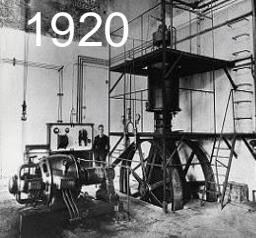
**TPI** is established, focusing on high-end know-how in planning plants for low-density polyethylene (LDPE) production.

The green acceleration begins: **NEXTCHEM** is launched, spearheading green chemistry and energy transition. The acquisition of **MyReplast Industries** and the creation of **MyRechemical** enhance the group's position in plastic upcycling and waste-to-chemical technologies.

The "Unbox the Future" **Strategic Plan** is announced. A new unit lights a new phase in the industrial cycle: Sustainable Technology Solutions is formed under **NEXTCHEM**. Acquisitions of **Conser** and **MyRemono** expand expertise in biodegradable plastic and chemical recycling.

**NEXTCHEM** continues its growth with the acquisition of **HyDEP** and **GasConTec**. **HyDEP** pioneers proprietary solutions for green hydrogen production, while **GasConTec** excels in low-carbon hydrogen, ammonia, and methanol technologies.

## AMMONIA REVOLUTION



## HERE COME THE FERTILIZERS!



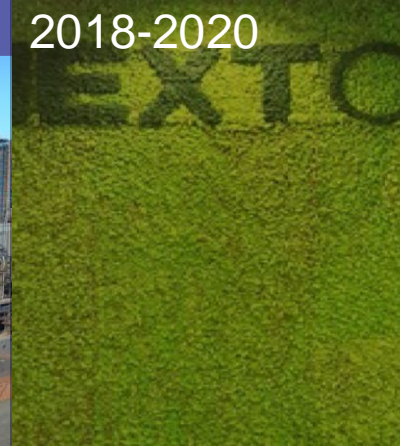
## FUELING THE FUTURE



## POLYETHYLENE PIONEERS



## GREEN CHEMISTRY & UPCYCLING



## UNBOXING THE FUTURE



## HYDROGEN HORIZONS



MAIRE'S TECHNOLOGICAL ROOTS

NEXTCHEM: THE GREEN ACCELERATION

THE ONGOING BLOOM

04

# OUR SOLUTIONS AT A GLANCE



H<sub>2</sub> & CC

**NX Reform™ Hydrogen**

Producing cost-effective, low carbon hydrogen integrating CO<sub>2</sub> capture technology

**NX Reform™ Blue Hydrogen**



H<sub>2</sub> & CC

**NX eBlue™**

Reducing natural gas usage and CO<sub>2</sub> emissions in hydrogen production



H<sub>2</sub> & CC

**NX CPO™**

Leading the way in decarbonizing hard-to-abate sectors



H<sub>2</sub> & CC

**NX Decarb™**

Optimizing and integrating core carbon capture unit



H<sub>2</sub> & CC

**NX SulphuRec™**

Reducing the emissions associated to refinery and natural gas processing



Fuels and Chemicals

**NX SAF™ BIO**

Unlocking the opportunity of a sustainable aviation industry



Polymers

**NX Replast™**

**Solution for plastic upcycling**



H<sub>2</sub> & CC

**NX HyDep AWE/PEM/AEM**

Reliable, high efficiency, high purity and cost-effective electrolysis modules for green H<sub>2</sub> production



Fuels and Chemicals

**NX Circular™ Methanol**



Fuels and Chemicals

**NX Circular™ Ethanol**



Fuels and Chemicals

**NX Circular™ SAF**



H<sub>2</sub> & CC

**NX Circular™ Hydrogen**

Our solution  
for waste-to-X

STAMICARBON



Nitrogen

**NX STAMI Nitric Acid™**

Optimizing  
nitric acid production



Nitrogen

**NX STAMI Green Ammonia™**

Futureproof carbon-free  
ammonia production



Nitrogen

**NX STAMI Urea™**

*Innovators in fertilizer  
plant technology*



Polymers

**NX CONSER™ Aromatics**

Driving innovation in TMA technology



Polymers

**NX CONSER™ Duetto**

Building a sustainable future through biodegradable plastics



Polymers

**NX CONSER™ Halo-Butyl Rubber**

Solution for sustainable butyl rubber synthesis



Fuels and Chemicals



Polymers

**NX CONSER™ C2 Derivatives**

Adaptable plant design for tailored production



Polymers

**NX CONSER™ C3 Derivatives**

Transforming C3 streams into high-value molecules



Fuels and Chemicals



Polymers

**NX CONSER™ C4 Derivatives**

Transforming C4 streams into high-value molecules





H<sub>2</sub> & CC

**NX AdWinHydrogen<sup>®</sup> Blue**

**NX AdWinHydrogen<sup>®</sup> Green**

Solutions for large-scale production of hydrogen from natural gas, with low CO<sub>2</sub> footprint using carbon capture



H<sub>2</sub> & CC

**NX AdWinAmmonia<sup>®</sup>**

**NX AdWinAmmonia<sup>®</sup> Zero**

**NX AdWinAmmonia<sup>®</sup> Power**

Front-end solutions for large-scale Ammonia production

**NX AdWinMethanol<sup>®</sup> Suite**

Solutions for large scale production of methanol with low CO<sub>2</sub> footprint, from natural gas, bio feedstock and waste.



Fuels and Chemicals

**NX AdWin<sup>®</sup> EcoReform**

Solution to improve the profitability of existing Steam Reformer methanol plants

**NX AdWinCombined<sup>®</sup>**

Solutions for large-scale combined production of ammonia and methanol

**NX AdWin<sup>®</sup> Solvent**

Solution for the large-scale production of raw gasoline from natural gas

05

# NEXTCHEM TECHNOLOGY SOLUTIONS

# NITROGEN



**NEXTCHEM**

MAIRE Sustainable Technology Solutions

# NITROGEN

Food security is driving an intensification of sustainable agriculture, achievable through the proper production of Sustainable Nitrogen-based fertilizers. We have a proprietary technology portfolio which is considered the leading and most efficient one in the production of various fertilizer technologies from Urea to Nitrates, also offering our proprietary Green Ammonia technology for non-fertilizers use.

**NX STAMI Nitric Acid™**

**NX STAMI Green Ammonia™**

**NX STAMI Urea™**

**Optimizing  
nitric acid production**

**Futureproof carbon-free  
ammonia production**

***Innovators in fertilizer  
plant technology***

# HYDROGEN & CIRCULAR CARBON



**NEXTCHEM**

MAIRE Sustainable Technology Solutions



# HYDROGEN & CIRCULAR CARBON

Alternative hydrogen-based & circular carbon solutions are crucial to decarbonize the industry. Leveraging MAIRE 50 years of experience in Hydrogen Tech, we enable the decarbonization of industries through the valorization and utilization of captured CO<sub>2</sub> and the implementation of technologies to produce cost-effective, clean and green hydrogen.

**NX Reform™ Hydrogen**

**NX Reform™ Blue Hydrogen**

**NX eBlue™**

**NX CPO™**

**NX Decarb™**

**NX SulphuRec™**

**NX HyDep AWE/PEM/AEM**

**NX Circular™ Hydrogen**

**NX AdWinHydrogen® Blue**

**NX AdWinHydrogen® Green**

**NX AdWinAmmonia®**

Producing cost-effective, low carbon hydrogen integrating CO<sub>2</sub> capture technology

Reducing natural gas usage and CO<sub>2</sub> emissions in hydrogen production

Leading the way in decarbonizing hard-to-abate sectors

Optimizing and integrating core carbon capture unit

Reducing the emissions associated to refinery and natural gas processing

Reliable, high efficiency, high purity and cost-effective electrolysis modules for green H<sub>2</sub> production

Our solution for waste-to-X

Solutions for large-scale production of hydrogen from natural gas, with low CO<sub>2</sub> footprint using carbon capture

Front-end solutions for large-scale Ammonia production

# FUELS & CHEMICALS



**NEXTCHEM**

MAIRE Sustainable Technology Solutions

# FUELS & CHEMICALS

To fight global warming, we need alternative and innovative fuels and chemicals obtained through a circular model where waste is finally considered a valuable feedstock. Leveraging MAIRE know-how in hydrotreating and hydrocracking, we are now applying our expertise to offer bio-fuels (SAF), synthetic fuels and chemicals (methanol, ethanol), e-fuels and chemicals,

**NX SAF™ BIO**

**NX Circular™ Methanol / Ethanol**

**NX Circular™ SAF**

**NX CONSER™ C2 Derivatives**

**NX CONSER™ C4 Derivatives**

**NX AdWinMethanol® Suite**

**NX AdWin® EcoReform**

**NX AdWinCombined®**

**NX AdWin® Solvent**

Unlocking the opportunity of a sustainable aviation industry

Our solution for waste-to-X

Adaptable plant design for tailored production

Transforming C4 streams into high-value molecules

Solutions for large scale production of methanol with low CO<sub>2</sub> footprint, from natural gas, bio feedstock and waste.

Solution to improve the profitability of existing Steam Reformer methanol plants

Solutions for large-scale combined production of ammonia and methanol

Solution for the large-scale production of raw gasoline from natural gas

# POLYMERS



**NEXTCHEM**

MAIRE Sustainable Technology Solutions

# POLYMERS

New energy carriers are necessary to fight global warming: sustainable polymers are obtained through a circular model where waste is considered a feedstock.

Our technology offering in Sustainable Polymers is extensive and comprehensive: Plastic Upcycling and Compounding, Chemical Recycling, biodegradable and compostable polymers. Our proprietary technology allows to invert the common “waste- to-market” approach into a customer-driven “products-from-waste” strategy.

**NX Replast™**

**Solution  
for plastic upcycling**

**NX CONSER™ Aromatics**

**Driving innovation in TMA technology**

**NX CONSER™ Duetto**

**Building a sustainable future through  
biodegradable plastics**

**NX CONSER™ Halo-Butyl  
Rubber**

**Solution for sustainable butyl rubber  
synthesis**

**NX CONSER™ C3 Derivatives**

**Transforming C3 streams into high-value  
molecules**





**NEXTCHEM**