

June 2024

NEXTCHEM COMPANY PROFILE

WHO WE ARE

WHO WE ARE

NEXTCHEM is 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

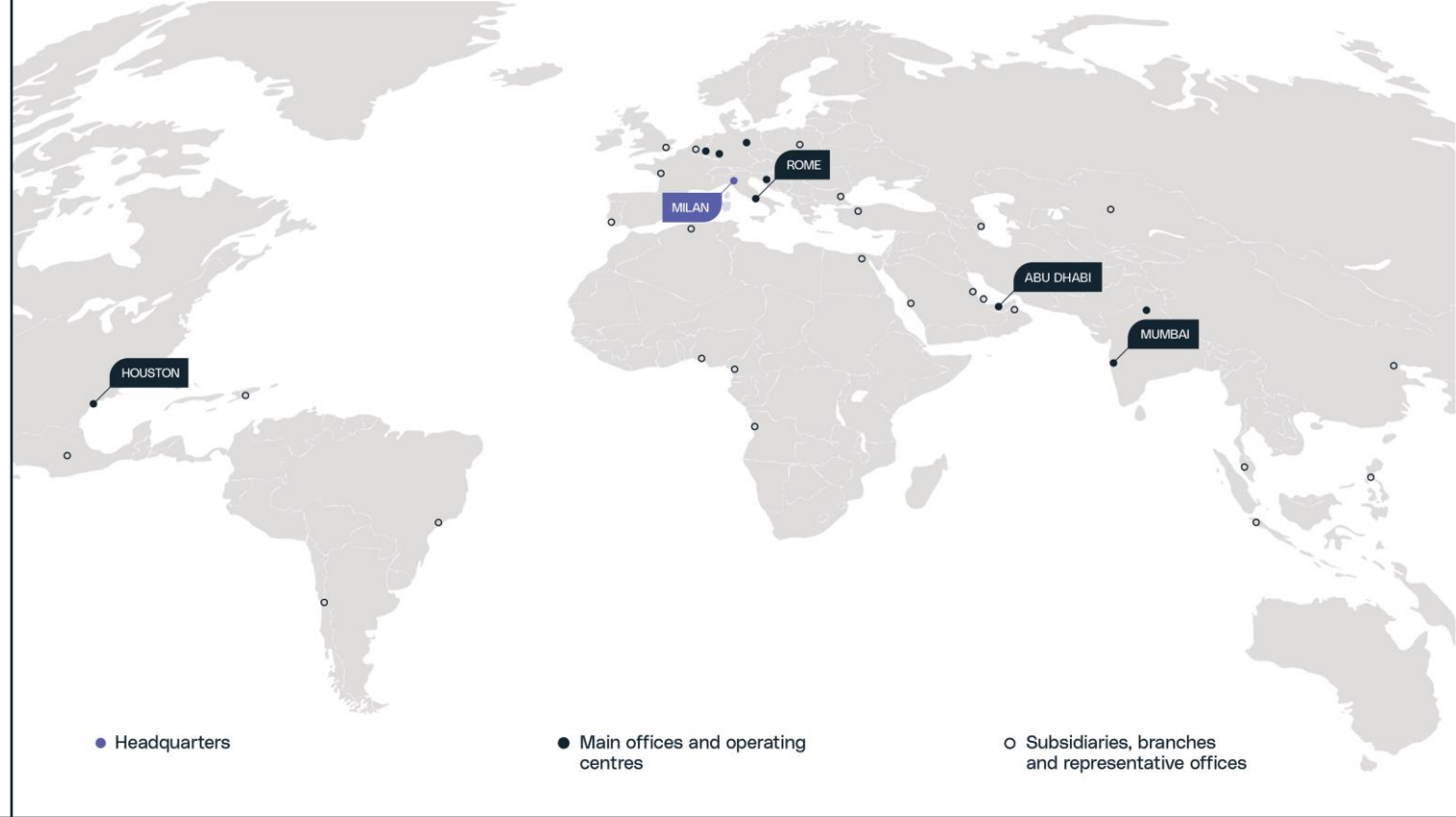
PURPOSE

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

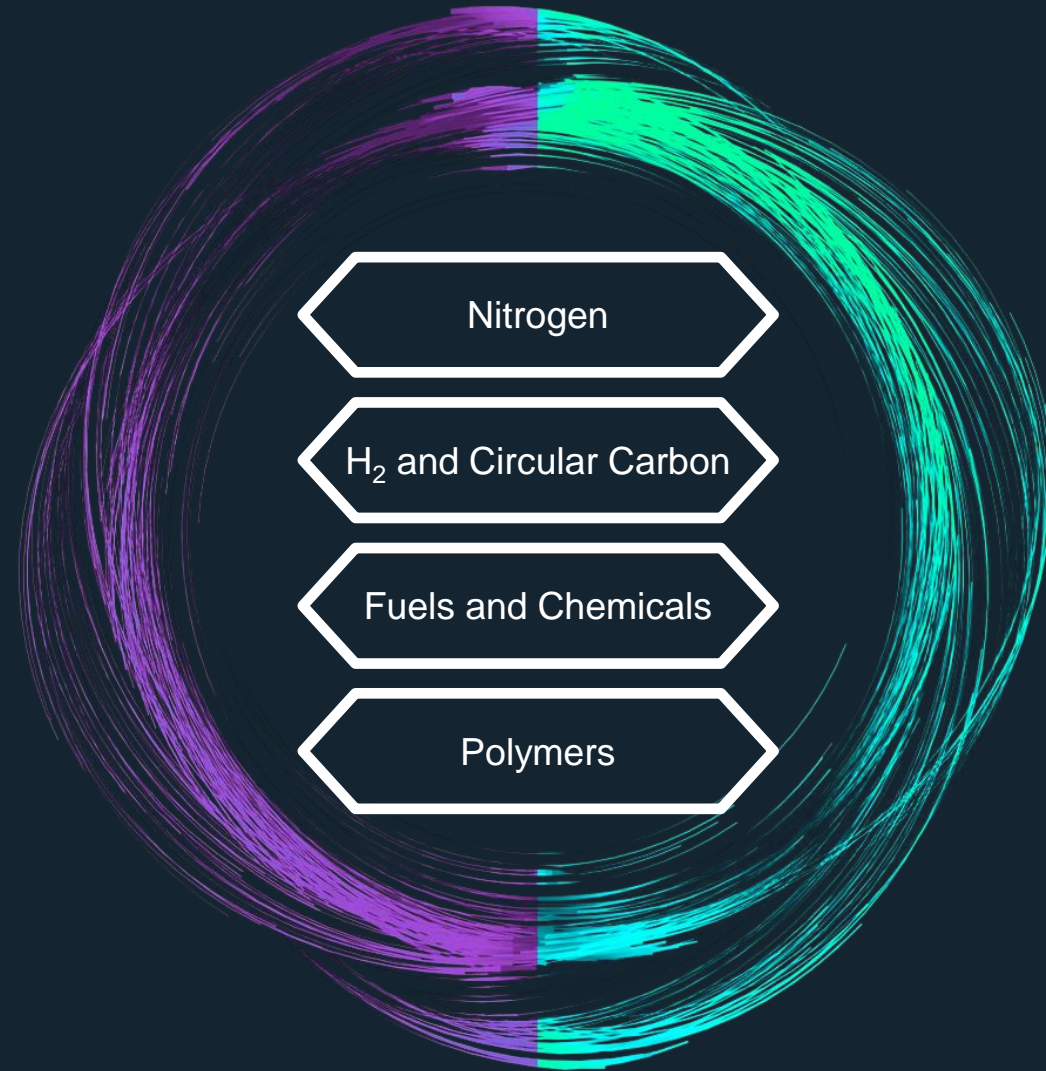
29,000+

People engaged worldwide*

Data as of 31st 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

Fauser 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.

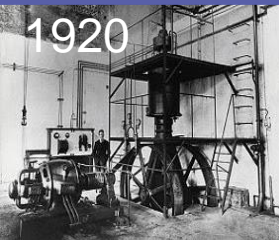
TPI is established, focusing on high-end know-how in planning plants for low-density polyethylene (LDPE) production.

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



H₂ & CC

NX Reform™ Hydrogen

Producing cost-effective, low carbon hydrogen integrating CO₂ capture technology

NX Reform™ Blue Hydrogen



H₂ & CC

NX eBlue™

Reducing natural gas usage and CO₂ emissions in hydrogen production



H₂ & CC

NX CPO™

Leading the way in decarbonizing hard-to-abate sectors



H₂ & CC

NX Decarb™

Optimizing and integrating core carbon capture unit



H₂ & 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



H₂ & CC

NX HyDep AWE/PEM/AEM

Reliable, high efficiency, high purity and cost-effective electrolysis modules for green H₂ production



Fuels and Chemicals

NX Circular™ Methanol



Fuels and Chemicals

NX Circular™ Ethanol



Fuels and Chemicals

NX Circular™ SAF



H₂ & CC

NX Circular™ Hydrogen

Our solution
for waste-to-X

STAMICARBON



Nitrogen

NX STAMI Nitrates™

Optimizing
nitric acid production



Nitrogen

NX STAMI Green Ammonia™

Futureproof carbon-free
ammonia production



Nitrogen

NX STAMI Urea™

*Innovators in fertilizer
plant technology*



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™ C2 Derivatives

Adaptable plant design for tailored production



NX CONSER™ C3 Derivatives

Transforming C3 streams into high-value molecules



NX CONSER™ C4 Derivatives

Transforming C4 streams into high-value molecules



H₂ & CC

NX AdWinHydrogen[®] Suite

Solutions for large-scale production of hydrogen from natural gas, with low CO₂ footprint using carbon capture



H₂ & CC

NX AdWinAmmonia[®]

NX AdWinAmmonia[®] Zero

NX AdWinAmmonia[®] Power

Front-end solutions for large-scale Ammonia production

NX AdWinMethanol[®] Suite

Solutions for large scale production of methanol with low CO₂ footprint, from natural gas, bio feedstock and waste.



Fuels and Chemicals

NX AdWin[®] EcoReform

Solution to improve the profitability of existing Steam Reformer methanol plants

NX AdWinCombined[®]

Solutions for large-scale combined production of ammonia and methanol

NX AdWin[®] 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 Nitrates™

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 CO₂ 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® Suite

NX AdWinAmmonia®

Producing cost-effective, low carbon hydrogen integrating CO₂ capture technology

Reducing natural gas usage and CO₂ 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 H₂ production

Our solution for waste-to-X

Solutions for large-scale production of hydrogen from natural gas, with low CO₂ 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 CO₂ 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