

October 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

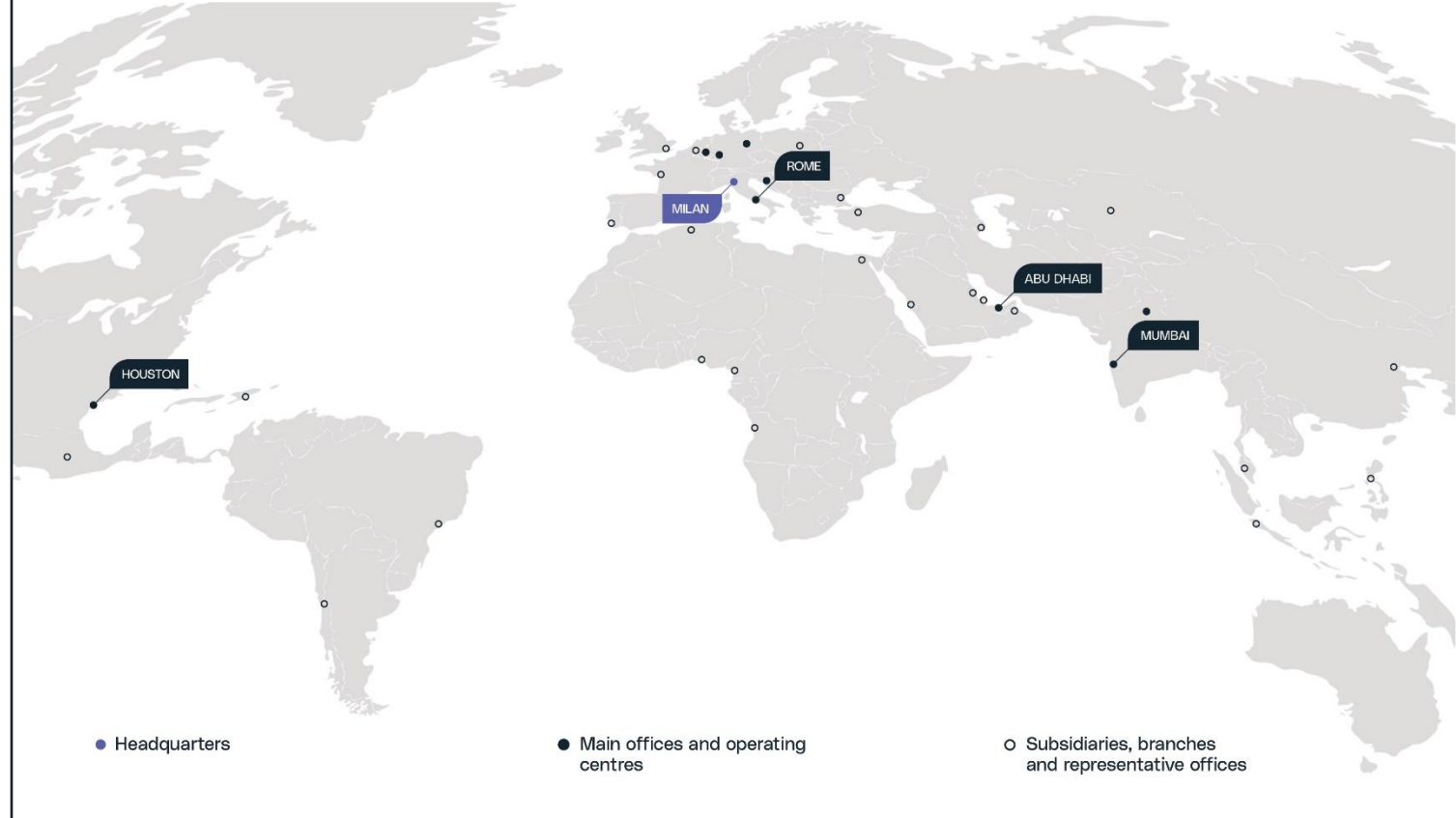
PURPOSE

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

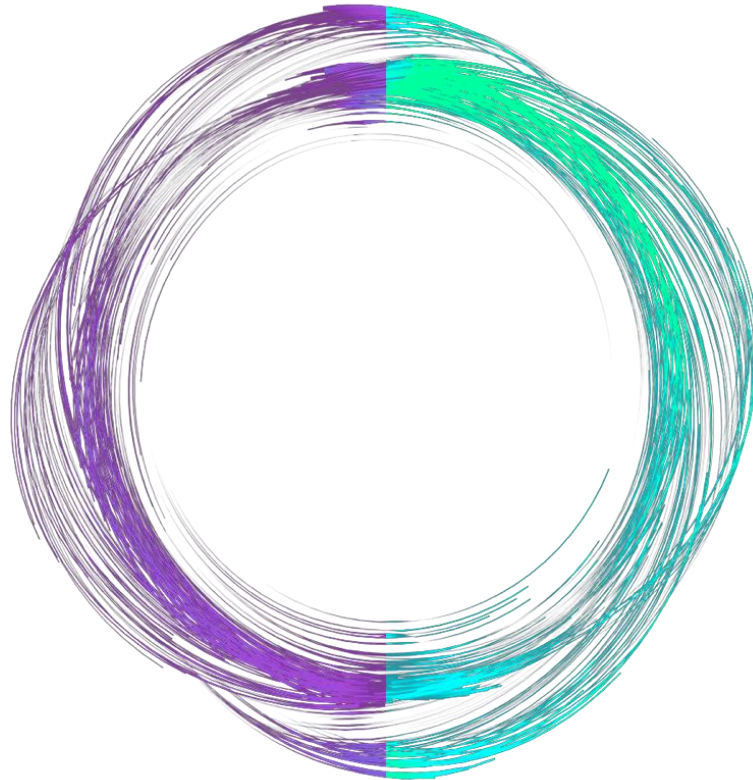
MAIRE CORE BUSINESS



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

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.

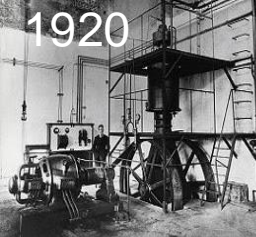
TPI is established, focusing on high-end know-how in planning plants for low-density polyethylene (LDPE) production.

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!



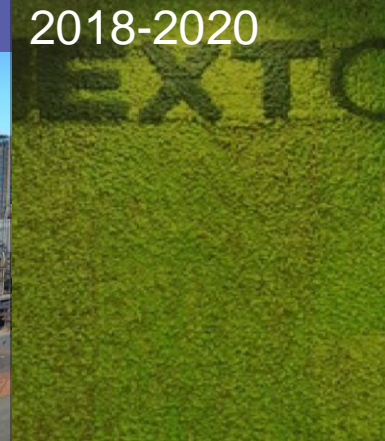
FUELING THE FUTURE



POLYETHYLENE PIONEERS



GREEN CHEMISTRY & UPCYCLING



UNBOXING THE FUTURE



HYDROGEN HORIZONS



MAIRE'S TECHNOLOGICAL ROOTS

NEXTCHEM: THE GREEN ACCELERATION

THE ONGOING BLOOM

04

INTRODUCING OUR BUSINESS LINES

AT THE FOREFRONT OF INNOVATION, OUR COMPANY IS DEDICATED TO SHAPING A LOW-CARBON FUTURE:

Our expertise is seamlessly integrated into our three business lines providing end-to-end solutions from feedstock to final product.

Together we want to revolutionizing tradition industries such as agriculture, hard to abate, transportation, energy, and manufacturing.

A STREAMLINED STRUCTURE

THREE BUSINESS LINES SERVING MAJOR DRIVING FORCES



**Sustainable Fertilizers
& Nitrogen-Based Fuels**

FEED



**Low Carbon
Energy Vectors**

MOVE



**Sustainable Materials
& Circular Solutions**

MAKE

DRIVING INNOVATION ACROSS THREE CORE PILLARS

TO SEIZE THE DECARBONIZATION OPPORTUNITY



Sustainable Fertilizers & Nitrogen-Based Fuels



Low Carbon Energy Vectors



Sustainable Materials & Circular Solutions

Driving sustainable nitrogen solutions in **fertilizers**, leveraging our leadership in **urea**, while innovating in **ammonia** for hydrogen transport

Advancing low carbon energy via **hydrogen** and **CO₂ valorization**, powering aviation, shipping, chemicals, as well as **sustainable plastics** innovation

Enhancing **circularity** by transforming waste into valuable resources, while using **chemical** and **mechanical recycling** for sustainable material recovery



SUSTAINABLE FERTILIZERS & NITROGEN-BASED FUELS

SUSTAINABLE FERTILIZERS

NITROGEN-BASED SOLUTIONS

Technology solutions

NX STAMI Urea™

including Ultra Low Energy design
and fluid bed granulation technology

Leaders in fertilizer technology, maximizing
energy efficiency

NX STAMI Nitrates™

Optimizing nitric acid production

NX STAMI Ammonia

Ammonia from low carbon hydrogen
(through ATR or CPO)¹

NX STAMI Green Ammonia™

Futureproof carbon-free
ammonia production

1. ATR – “Auto Thermal Reforming” and CPO – “Catalytic Partial Oxidation”.



LOW CARBON ENERGY VECTORS

LOW CARBON ENERGY VECTORS

HYDROGEN SUITE, LOW CARBON FUELS AND CARBON CAPTURE, SULPHUR RECOVERY AND ADVANCED POLYMERS

Technology solutions

NX CPO™ Catalytic partial oxidation	Small scale hydrogen production through syngas for hard to abate	NX Decarb™	Optimizing and integrating core carbon capture unit
NX Reform™ Steam methane reforming	Small-medium scale hydrogen production from gas (available with carbon capture)	NX SulphuRec™ Sulphur recovery	Abate pollutants in refinery and natural gas processing
NX AdWinHydrogen® Suite Autothermal reforming	Large scale low carbon hydrogen from gas with high efficiency and capture rates	NX MAN	Sustainable processes for fine chemicals production
NX HyDEP	Reliable and cost-effective electrolysis modules for green hydrogen	NX CONSER™ Duetto	Building a sustainable future through biodegradable plastics
NX AdWinMethanol® Suite Autothermal reforming	Large scale methanol synthesis from gas for a new low carbon fuel		
NX SAF™ BIO HEFA process, also with pre-treat	Unlocking sustainability of aviation through cost-effective small scale plants		



SUSTAINABLE MATERIALS & CIRCULAR SOLUTIONS



NEXTCHEM

MAIRE Sustainable Technology Solutions

SUSTAINABLE MATERIALS & CIRCULAR SOLUTIONS

VALORIZING WASTE

Technology solutions

NX Circular™

Valorization of waste through gasification and conversion of syngas into hydrogen, methanol, ethanol, or SAF

NX BioEnergy

Production of bioenergy from waste biomass

NX Replast™

Upcycling rigid plastic waste into valuable products

NX Re™ Suite

Chemical recycling of plastic waste into monomers



NEXTCHEM