

# SPEAKERS







# EXECUTIVE SUMMARY

A high-tech industrial company in the gas generation sector worldwide (nitrogen, oxygen and hydrogen) using both alkaline and pem technology. Thanks to its extensive experience, scaling up to large electrolyzer for the energy transition

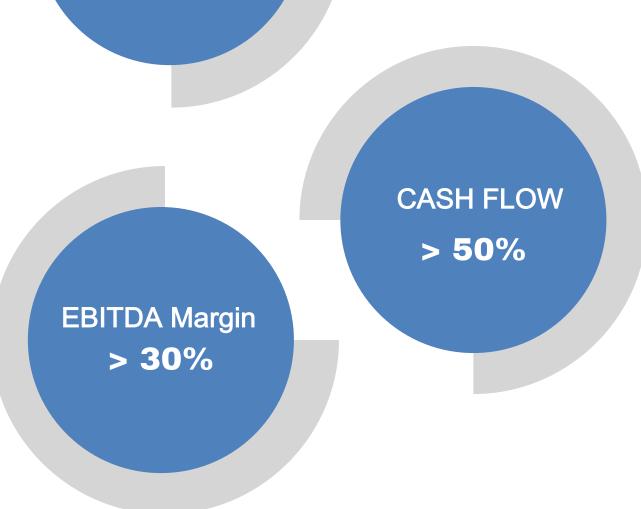
With over 20 years of experience and a track record of satisfied clients, ErreDue is a preferred partner in the large H2 plants that will develop over the next 5-10 years.

The company is building a **new advanced plant** that increases production capacity by 10 times, is **signing commercial partnership** outside Italy

BACKLOG \* **€ 22,5** M

#### TOTAL BACKLOG €22.5 M

- High growth of backlog with €22.5M.
- The **80%** is referred to FY 2025
- Composed by:
  - ✓ €15.9M sales of generator,
  - ✓ €6.6M recurring revenues long term rental and service



# THREE BUSINESS UNITS, ONE GOAL





Transportation

Power Generation and Storage
Residential and Commercial Heating
Renewable Energy Integration



INDUSTRIAL APPLICATION

Agriculture and Fertilizers
Food and Beverage Industry
Pharmaceuticals and Healthcare
Electronics, Manufacturing, Laser cutting
Environmental and Waste Management



LABORATORY LINE

Gas Carrier
Laboratory instruments

## **HYDROGEN**









# **医医疗性性** MURCLINY



**ENERGY TRANSITION** 

## **OTHER GASES**











LAB



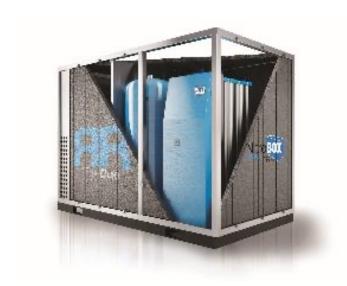






LAB





TRADITIONAL BUSINESS



#### **CUSTOMIZATION**

FULL SYSTEM
OFFERING
CUSTOMIZED FOR
DIVERSIFIED
END-MARKET
APPLICATIONS



#### RELIABILITY

WHITE SPACE IN PILOT
PROJECTS FOR H2
PLANT TO ACHIEVE NET
ZERO EMISSION

# KEY SUCCESS FACTORS







### SCALABILITY

ON-SITE GAS
GENERATION
SCALABILITY ACROSS
MULTIPLE
END-MARKETS



# INTEGRATED BUSINESS

MODEL

EVERY
TECHNOLOGICAL
COMPONENTS IS
RESEARCHED,
DESIGNED, PRODUCED
AND ASSEMBLED INHOUSE





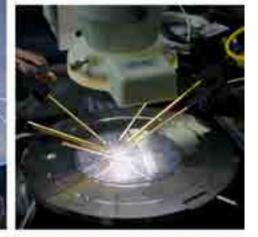




















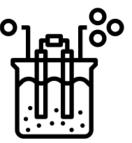
# AN INCOMPARABLE TRACK RECORD

EXTENSIVE EXPERIENCE

COVERING DECADES,

OVER 20 YEARS OF

EXPERIENCE



### TECHNOLOGY LEADE

AWE AND PEM
TECH, RELIABLE AND
PROVEN PERFORMANCE
GUARANTEES
REVOLUTIONARY
NEXT-GENERATION
SOLUTIONSLEADERSHIP IN
COST AND SCALE



### **INDUSTRY LEADER**

MARKET-LEADING
LARGE-SCALE
MANUFACTURING
CAPABILITIES



# COMMITMENT TO SUSTAINABILITY

SOLUTIONS ALIGNED WITH
GLOBAL SUSTAINABILITY
GOALS DEDICATED TO
REDUCING CARBON
FOOTPRINT ACROSS
OPERATIONS

# VERTICALLY INTEGRATED BUSINESS MODEL

All design and production know how is internal. ErreDue's production department is capable of producing in a short time, gas generators of different sizes and related accessories.

01

### **Electrolytic cell**

The heart of the machine, it is made of plastic polymeric components then stacked together, produced with proprietary moduls

02

### Metal shell

Component without any specific know how, whose production is generally outsourced to clients in the metal cutting and treatment business

03

### **Software**

Internally developed and proprietary

04

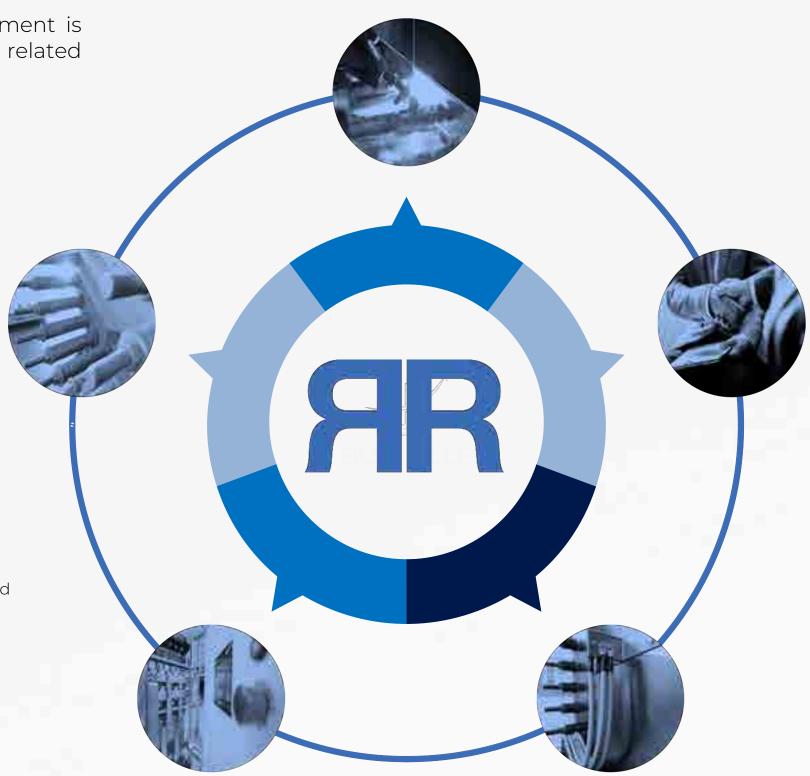
### **Process components**

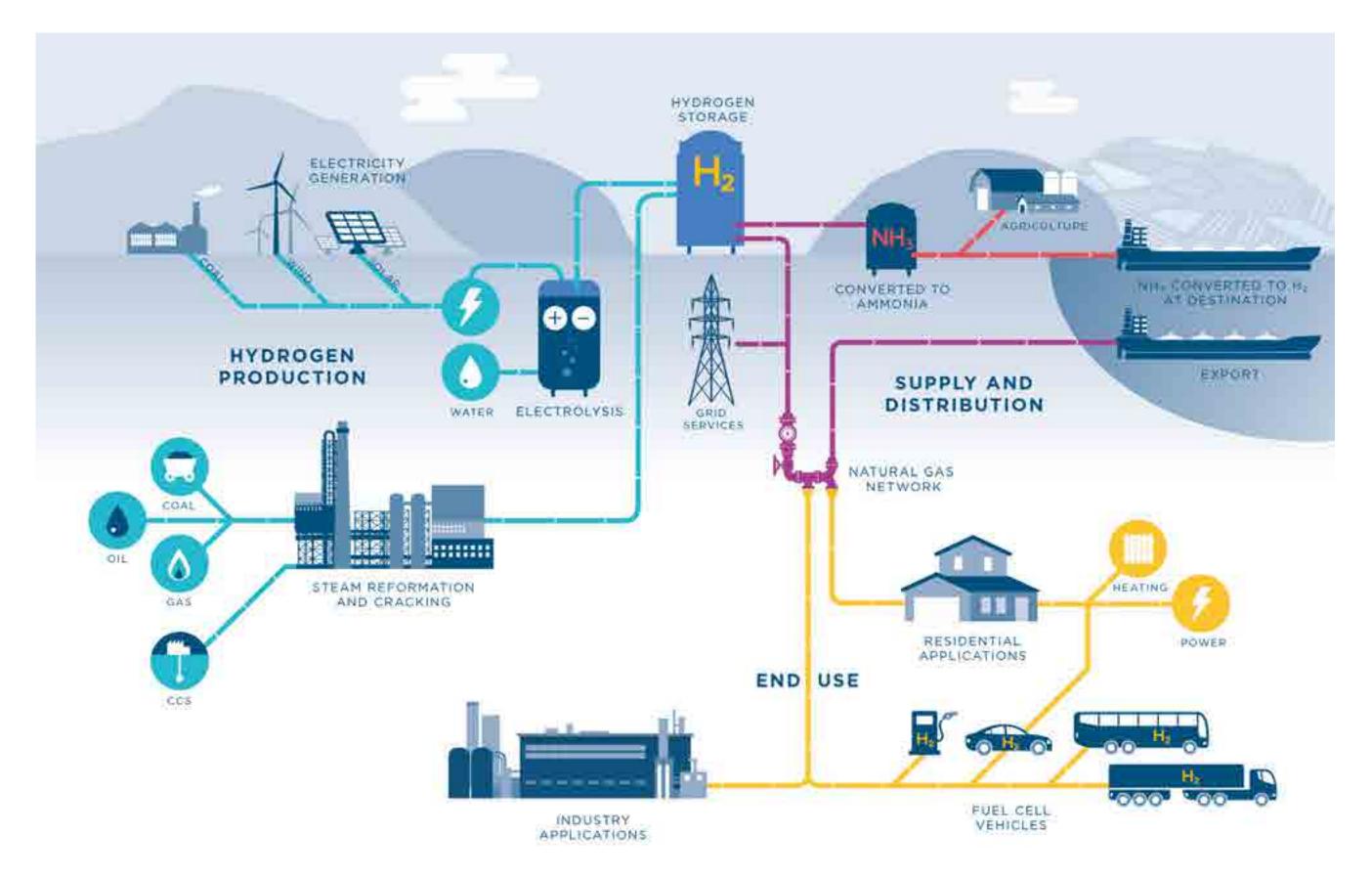
Tanks, tubes, manifolds, generator sealing plates (both for H2 cells and N2 generators); produced internally

05

### **Electric system**

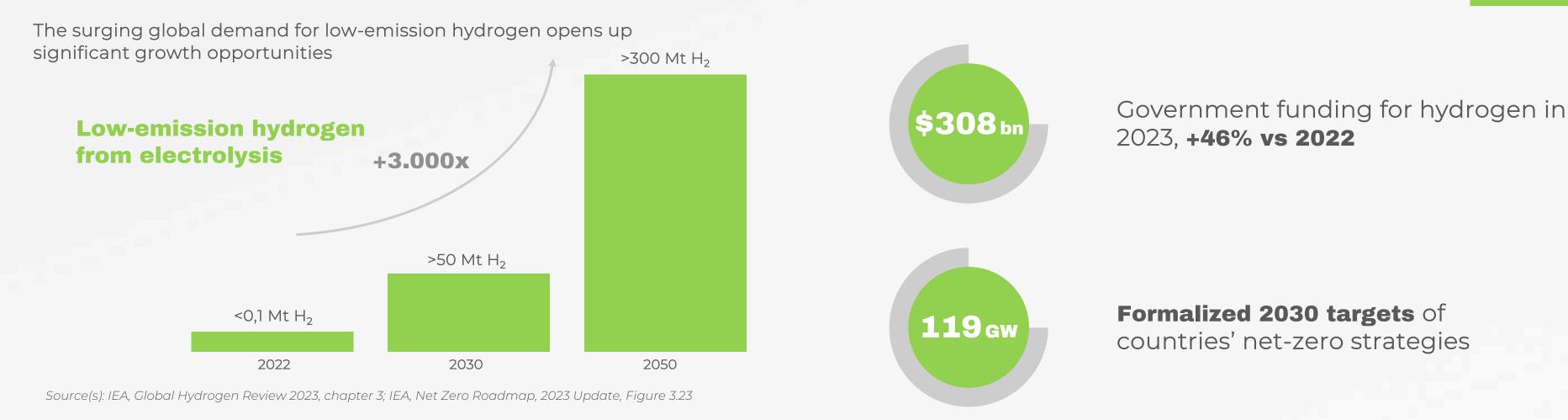
Internally designed and assembled





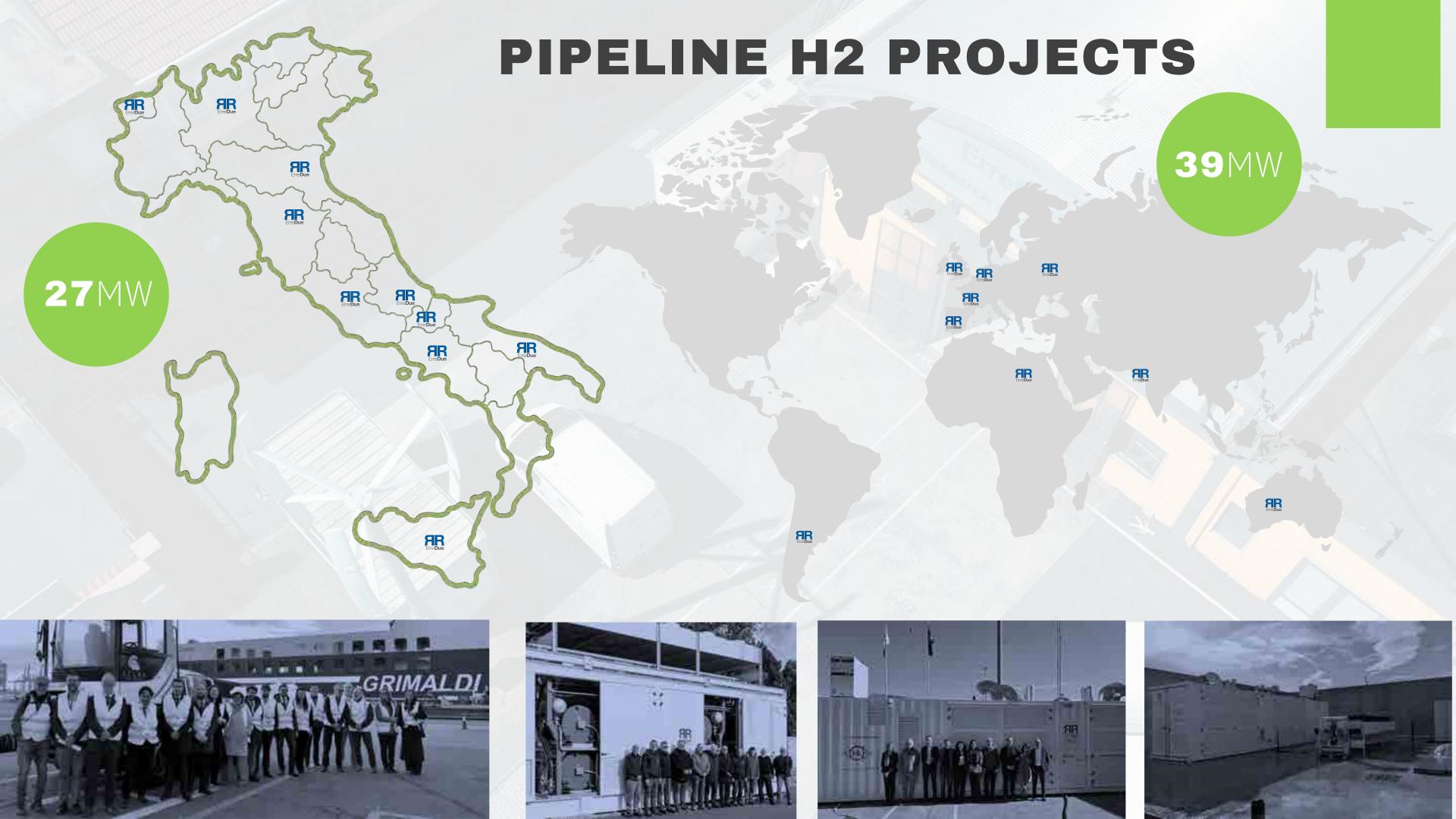
# **ENERGY TRANSITON**

## MARKET OVERVIEW ENERGY TRANSITION



### STRATEGIC POSITIONING

- Broader vision of the hydrogen market, which extends beyond the energy transition to embrace industries' decarbonization
- By establishing itself in the niche of 1-5 MW plants within the broader electrolyzer market, ErreDue could benefit from the proliferation of larger facilities, which would drive growth across the entire market



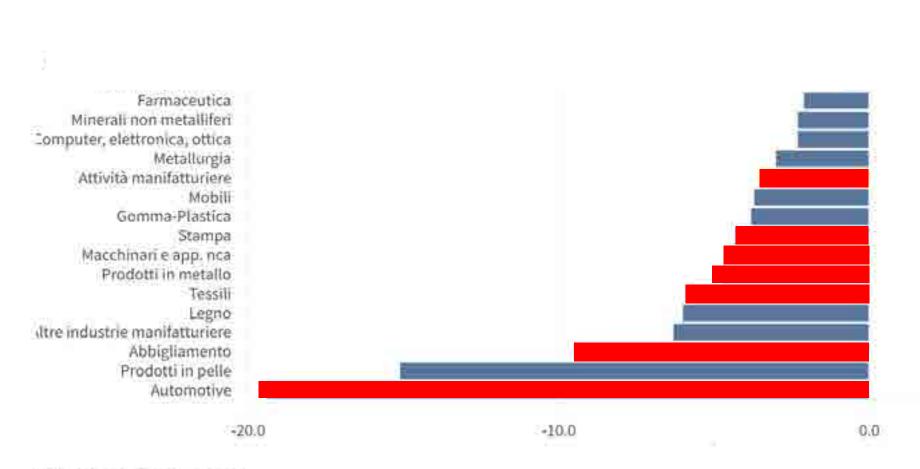


## MARKET OVERVIEW TRADITIONAL BUSINESS



Dinamiche settoriali eterogenee nella produzione industriale (Italia, var % 2023-2024\*)

1 of 1



\*Primi 9 mesi di ciascun anno. Fonte: elaborazioni CSC su dati Istat. In the first nine months of 2024, Italian industrial production saw a decline up to -20% compared to the same period in 2023. This downturn was primarily driven by a significant drop in Q1 (-1.4% on a cyclically adjusted basis), with a gradual easing through late spring (-0.9% in Q2). Despite some improvement, Q3 data still showed negative growth, registering an additional decline of -0.6%.



10:0

### COMPETITIVE ADVANTAGE

## **VISION**



**LOW POWER CONSUPTION** 

high purity of nitrogen \*

COMPETITOR

**ERREDUE** 

 $\approx 1.2 \text{ kW/m}$ 3 VS  $\approx 0.50 \text{kW/m}$ 3

**THANKS TO** 

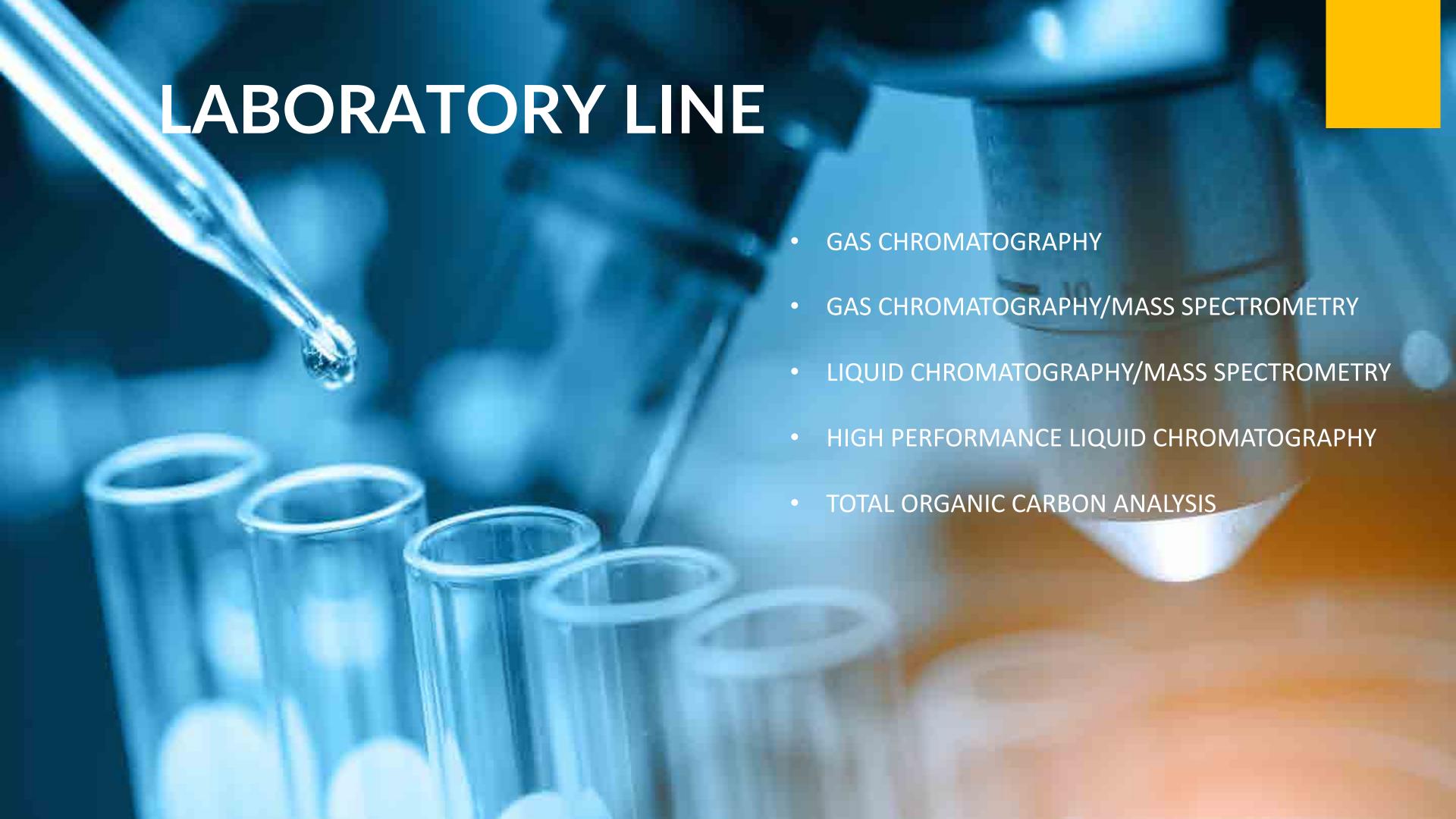
The air/nitrogen ratio of 3:1

MAXIMUM BRILLIANCE WITH ONLY ONE PROCESSING

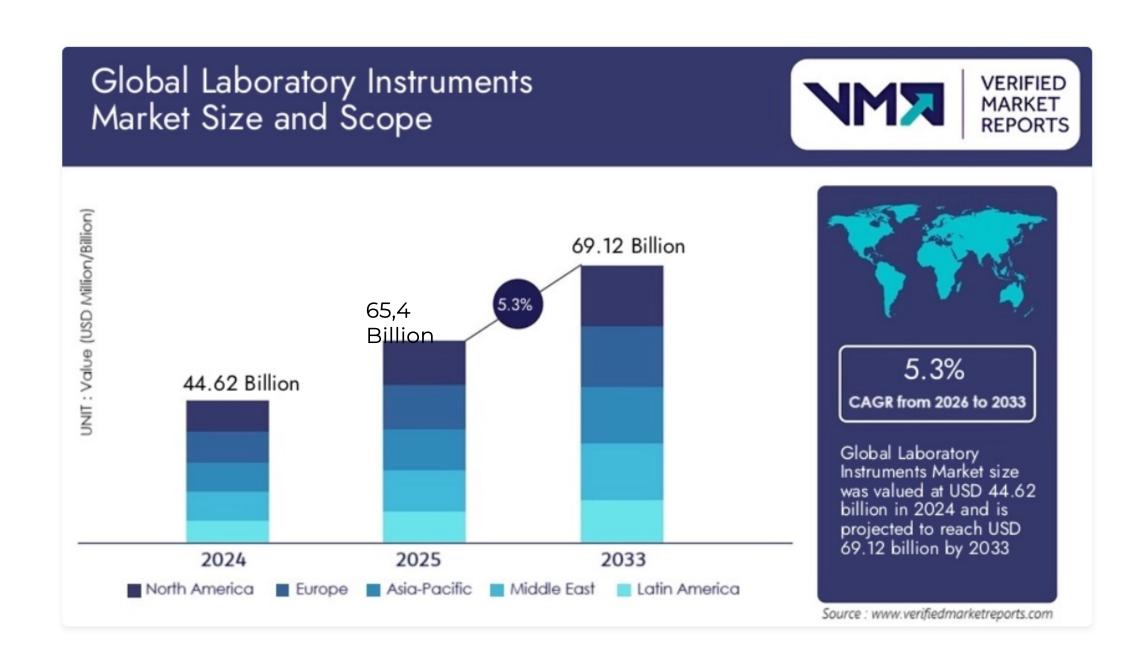


In order to have a stronger presence in our traditional business, we have a number of initiatives in place, which are as follows:

- Recruitment of a new business developer to promote Erredue's presence in foreign markets
- Strategic partnership with complementary company
- Expansion of our product portfolio with the addition of a new technology



## MARKET OVERVIEW LABORATORY LINE

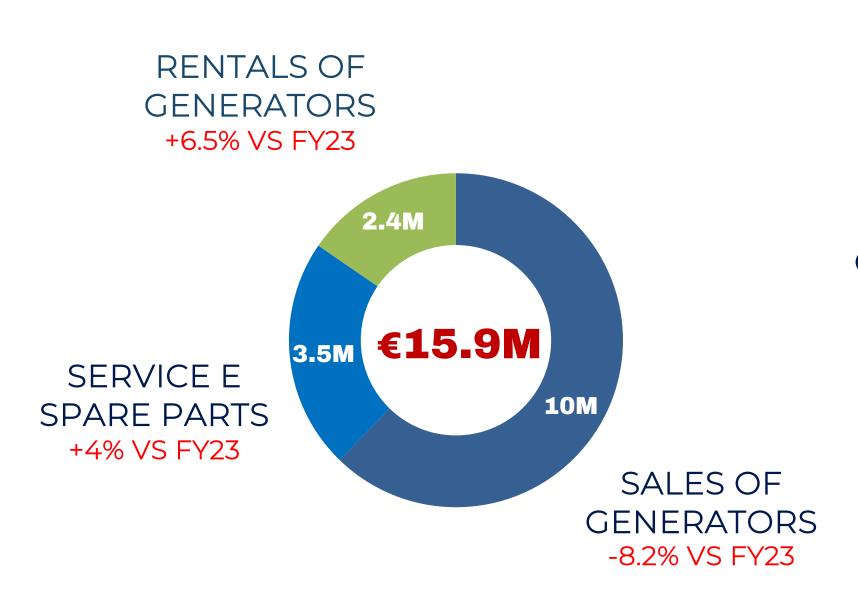


Emerging Markets: Developing countries are investing in healthcare infrastructure, creating a demand for laboratory instruments. For example, the Indian medical devices market grew from \$2.02 billion in 2009 to \$3.9 billion in 2015, with a CAGR of 15.8%.Point-of-Care Testing: There is a growing trend towards decentralized testing, which requires portable and intuitive instruments, opening new avenues for market expansion.

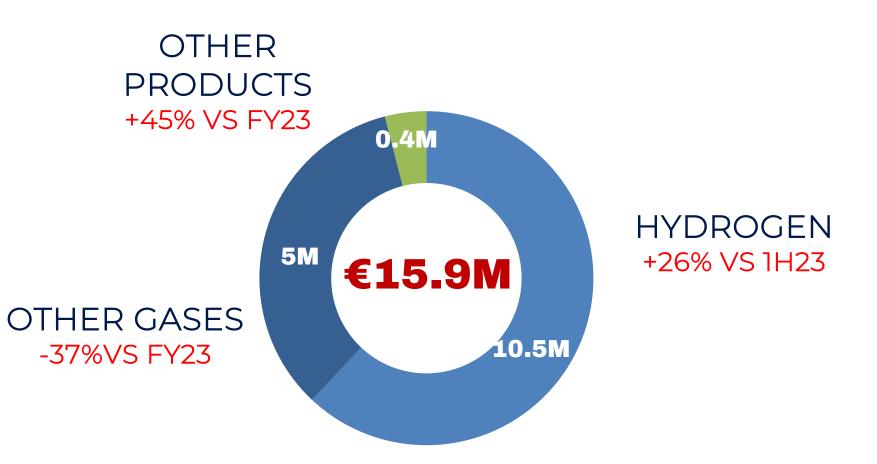
### **VISION**

Erredue has signed a partnership agreement with a specialist sales consultant to develop the laboratory market. The growth strategy began with the rebranding of the division and will continue with a deep analysis of the benchmark target following the goal to begin one of the key player of the laboratory sector

# REVENUES BREAKDOWN FY2024



FY2024



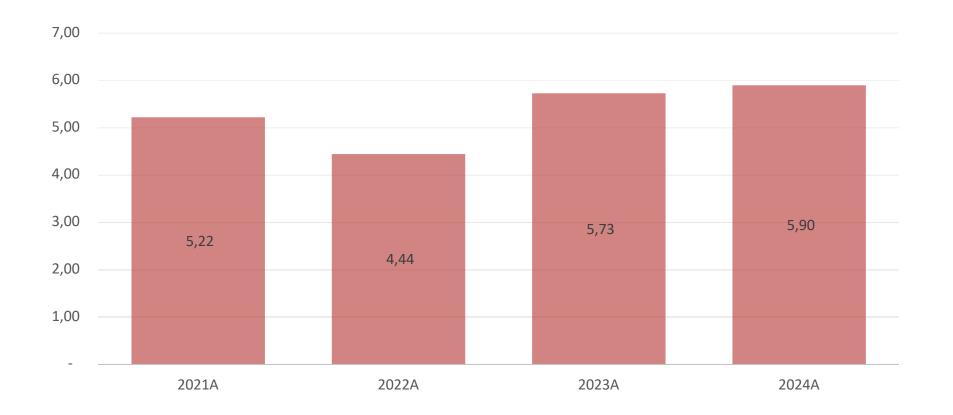
REVENUES
BREAKDOWN BY
CONTRACTS

REVENUES
BREAKDOWN BY
PRODUCTS
FY2024

# RECURRING REVENUES

### Long Term Rental

- The rental of the plant breaks down the wall of diffidence regarding new technology and its introduction in a production line
- Rental contracts often have an average term of 65 months and are indexed to inflation
- At the end of the contract, the generators still have a value (even if fully depreciated); they can be bought back or rented again by the same customer or sold to a third party with a capital gain.



### After Market

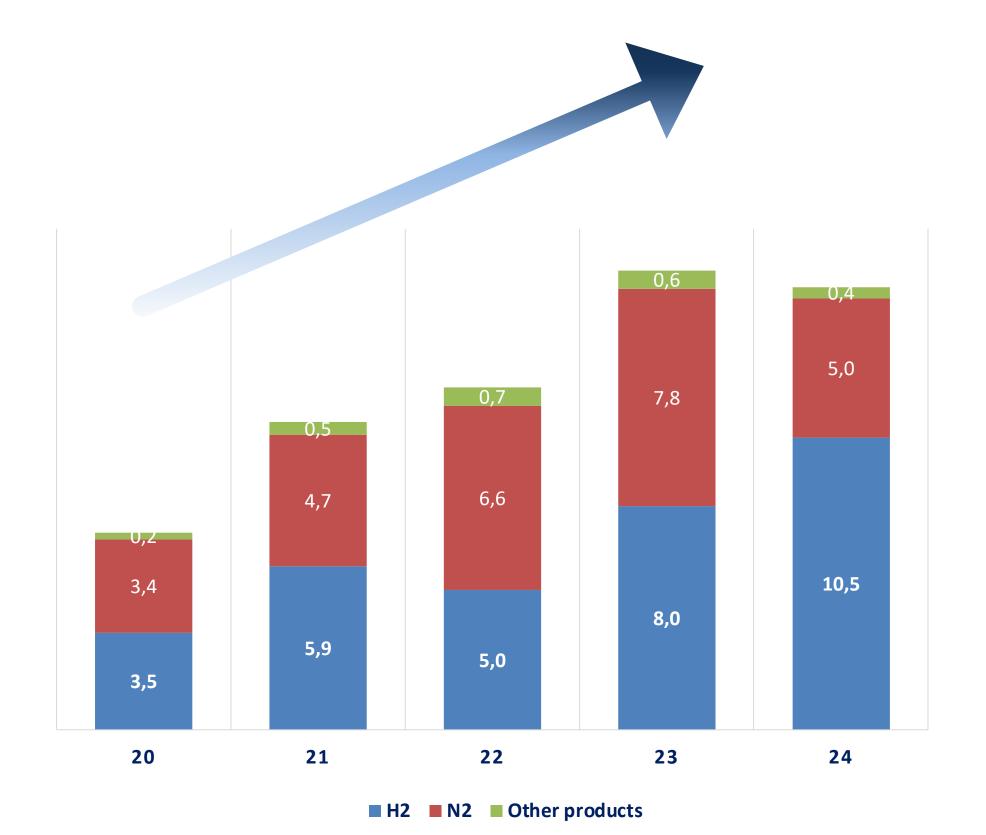
- Highly specialised Technical Department takes care of clients along all the journey, from plant design to installation, and keeps following it in the after marke.
- Generators can only and exclusively be maintained by ErreDue technicians, using only and exclusively components developed inhouse.
- Erredue, in addition to revenues linked to sales, guarantees recurring revenues linked to maintenance contracts, both ordinary and extraordinary.

### 2.6 YEARS AVERAGE PAYBACK TIME

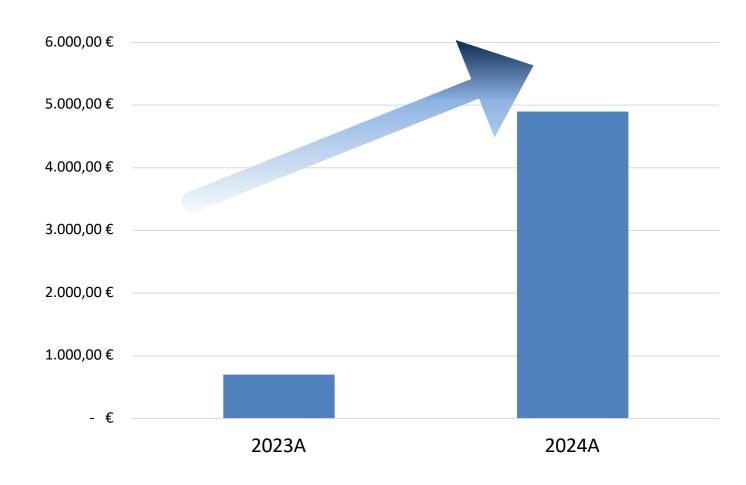
On the investment on internal construction cost (capitalized)

VALUE
RESIDUAL
AT EXPIRY
On the generators'
Rental contract
(often up to 72
months, 65 months
on average)

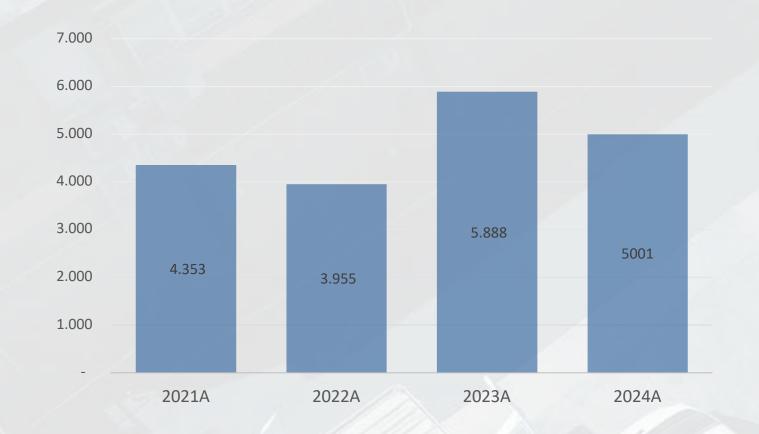
# **H2 REVENUES**

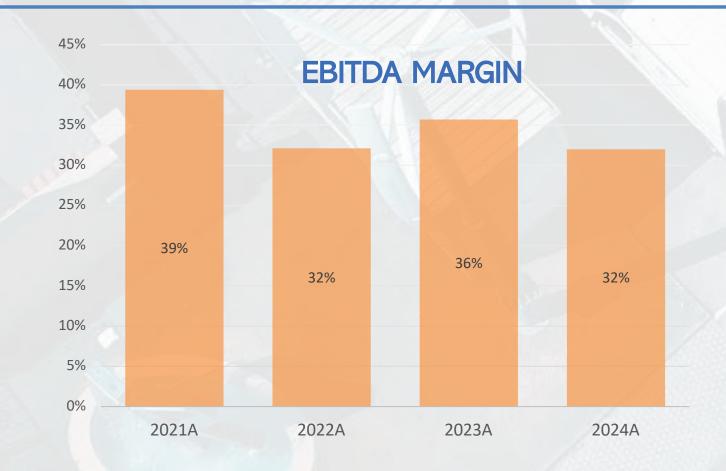


# DOUBLE DIGIT GROWTH IN ENERGY TRANSITION



The energy transition segment has seen significant growth, driven by the ecological transition and promising developments in the energy sector. Along with the sharp increase in sales in the financial year, there has been a substantial rise in orders for plants to be delivered by 2025.





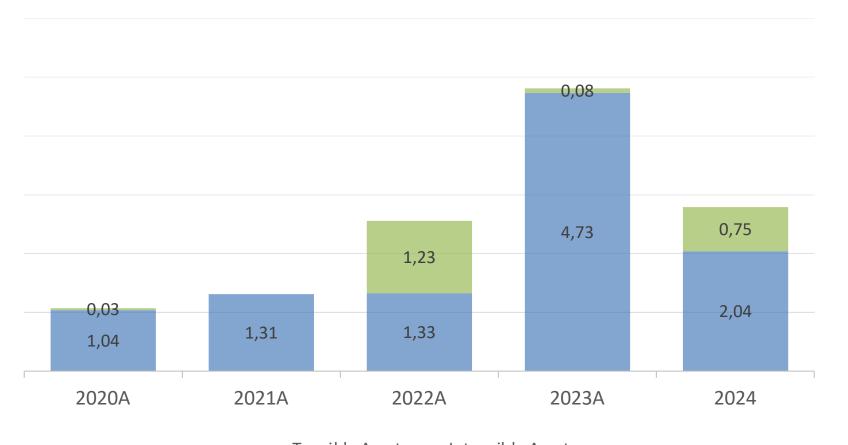
## KEY DRIVERS OF THIS TEMPORARY MARGIN IMPACT INCLUDE:

In 2024, the company achieved an EBITDA of EUR 5,088 thousand, slightly down from EUR 5,888 thousand in 2023.

The decrease is mainly due to higher development costs for new, larger generators, a shift towards these lower-margin products, increased work-in-progress inventory, and rising personnel costs due to new hires and training.

Despite these factors, the company maintains strong operational performance. Depreciation, amortization, and write-downs amounted to EUR 2,077 thousand, a decrease of EUR 240 thousand compared to 2023. This resulted in an EBIT of EUR 3,011 thousand (19% of sales), compared to EUR 4,051 thousand (24.6% of sales) in 2023.





### ■ Tangible Assets ■ Intangible Assets

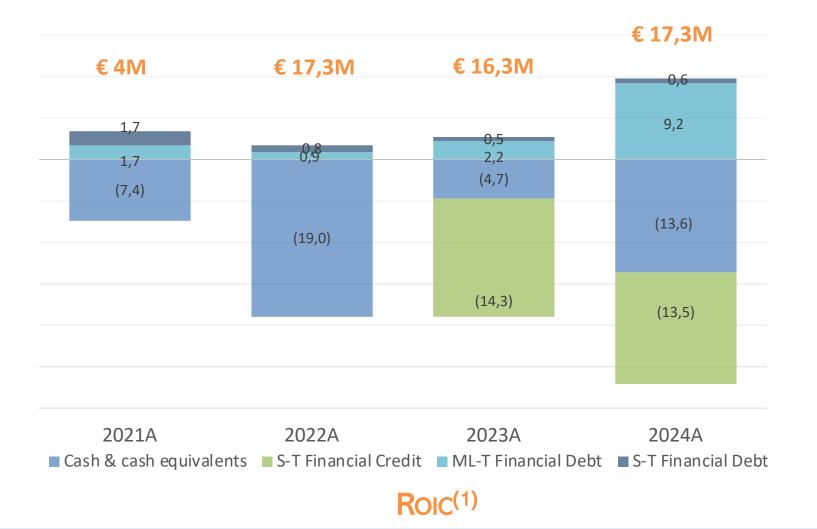
### TRADE WORKING CAPITAL

(€M)



### **NET FINANCIAL POSITION (CASH)**

(€M)





# STRATEGIC GROWING

# NEW PRODUCTION SITE

• ErreDue will be able to produce up to 60 plants per year in a single shift; production will be doubled in the case of two shifts

### **FOREIGN EXPANSION**

• It's scouting opportunity in Europe and discussing partnership agreement with company in Spain, Portugal and

# STRATEGIC POSITIONING

# Strategic Vision of the Hydrogen Market:

ErreDue sees the
hydrogen market as a
long-term opportunity
for both energy
transition and
decarbonization across
high-emission
industries. This broad
vision positions the
company to serve a
diverse range of
applications.

### Opportunities in Large-Scale Projects:

ErreDue sees the
hydrogen market as a
long-term opportunity
for energy transition
and industrial
decarbonization,
allowing it to target a
wide range of
applications.

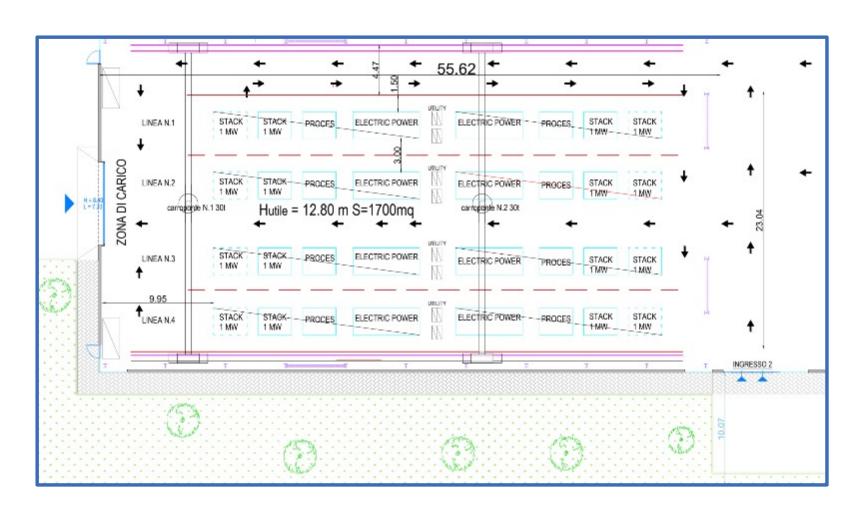
# Proven Technological Quality and Reliability:

With over 30 years of experience, ErreDue has developed reliable, high-quality technology through a fully integrated business model. This expertise has been key to building a strong reputation and a loyal customer base.

### Leadership in the Small to Medium-Scale Electrolyzer Niche:

By focusing on the 1 to
5 mw electrolyzer
niche, erredue
establishes a strong
foundation for growth.
the demand for larger
plants will boost the
overall market,
benefiting providers of
smaller, modular
solutions like erredue.





## **NEW PRODUCTION SITE**

60
plants per year on one shift

4 production lines

17,000 sqm
new area

## increasing to

**27,000** sqm total area

# ESG AGENDA 2030

ErreDue pays a lot of attention to ESG policy and has therefore started a path towards obtaining the major certifications in this area

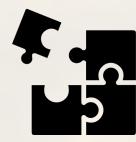
### Environment

The intrinsic nature of ErreDue's business is centred on respect, protection and improvement of the environment in which operates.



### Social

ErreDue 's success is thanks to the invaluable contribution of its people. Erredue invests in learning, promoting and rewarding proactive behaviour at all levels of the organisation.



### Governance

engaged in implementing governance, ethics and compliance best practices, aligning interests between stakeholders, supporting growth and long-term strategies



# ENVIROMENTAL ACHIEVEMENTS





### RENEWABLE ENERGY

Installation of 650 Kw of solar panels on the roof.
In addition, a hydrogen refuelling station will be located in the external area to serve its mobile transport and the gas produced during testing will be used to increase the efficiency of the plant. With the new factory, erredue begins the path to becoming a promoter of sustainability.



### CARBON FOOTPRINT

Measurement of emissions (direct and indirect) of greenhouse gases (CO2, CH4, N2O, CFCs, etc.) due to company activities. Standard: ISO 14064:2019.Locations: Livorno and Lavaiano.Reference year: 2022. Certification: by the first half of 2024



### SUSTAINABILITY REPORT

The Company will produce and publish the Sustainability Report according to the European Sustainability Reporting Standards (ESRS) defined by EFRAG and the European Commission.By I half of 2024

# SOCIAL ACHIEVEMENTS





Women make up 25 per cent of the employees, a great achievement for an industry specialising in manufacturing. Entire departments of the company are managed by women, such as the cell production department and the plant management. In addition, the the company CEO is a woman, Francesca Barontini.



### **EDUCATION**

The valorization of human capital has always been fundamental for ErreDue. The company continually invests in the personal and professional development of its employees. New employees' education includes both practical skills and physical and chemical concepts.



### WELFARE &BONUS

The valorisation of human capital has always been fundamental for Erredue: every employee can benefit from a well-defined Corporate Welfare Plan. The range of services offered to workers include babysitting vouchers, purchase of text books, gym memberships, travel vouchers, reimbursements for school and canteen expenses. In addition, at the beginning of each year the board of directors decides to offer a meritocratic production bonus of up to € 2,000.

# **GOVERNANCE ACHIEVEMENTS**





# MICRO PUBLIC COMPANY

Erredue's focus on people is an integral part of the company's DNA.

The founders' philosophy was to share the benefit of the company with the key workers that proved to be of added value to the organization so the company turned into a micro public company with 22 worker members of Green Holding which holds the 54% of the share capital.



# ENVIROMENTAL MANAGEMENT SYSTEM

The part conforming to the ISO 14001 environmental standard will be added to the certified Integrated Quality and Safety Management System (ISO 9001 and 45001).Standard: UNI EN ISO 14001:2015. By April 2024



# Thank you