
QEMETICA®
Fast track
to sustainability
WE
CHEM DO
BETTER
2024

Our Purpose

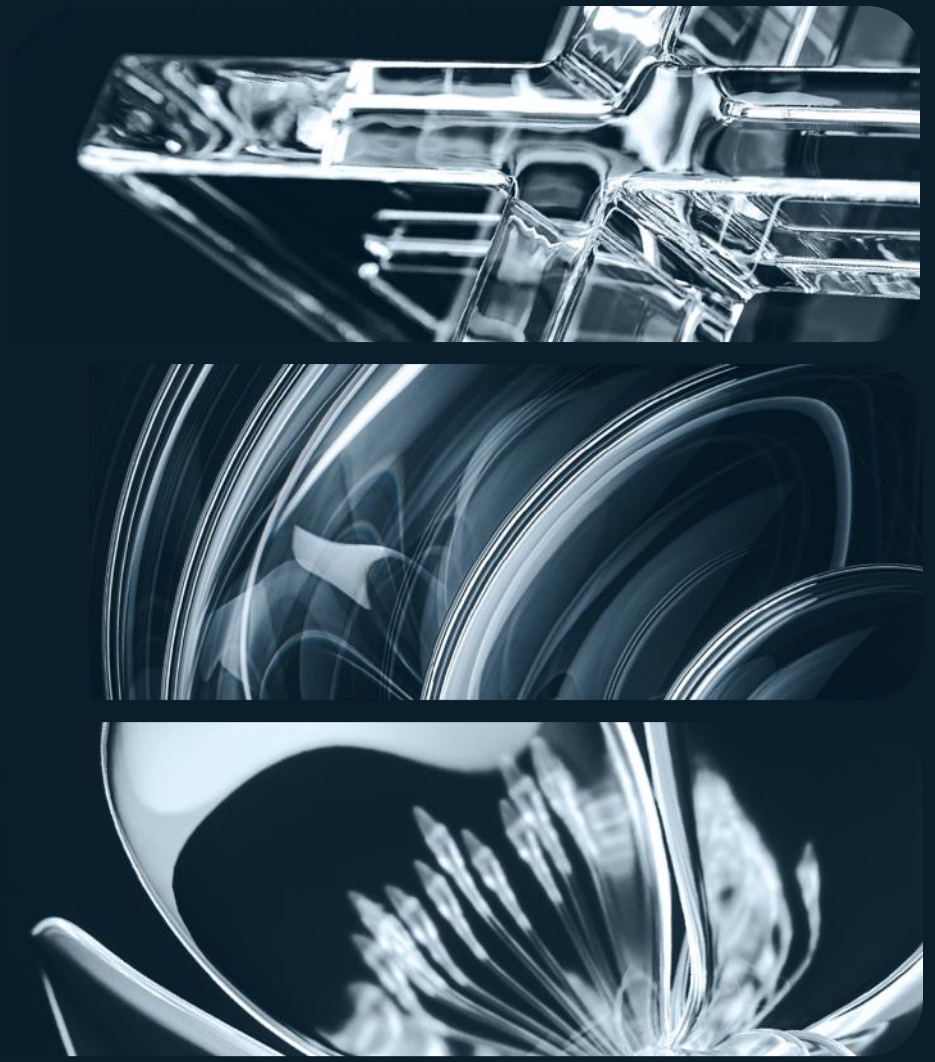
We make chem better as the world's future depends on it.

Our Vision

Re-imagine the chemical industry. Create it our own way, making it clean and people-friendly, while pursuing efficiency.

Our Values

We care for our planet, our teaming, and the "can do" attitude that gives us energy to go beyond.



New business strategy for 2024-2029

FOUR STRATEGIC PILLARS

GROWTH

INNOVATION

BUSINESS EMPOWERMENT

SUSTAINABILITY

ON FAST-TRACK TO SUSTAINABILITY

I **Go for ESG excellence,** beyond EU regulations

II **Energy mix diversification** - towards sustainable and cost effective

III **Further efficiency improvement**

IV **Courage to seek innovative solutions** for soda ash production process

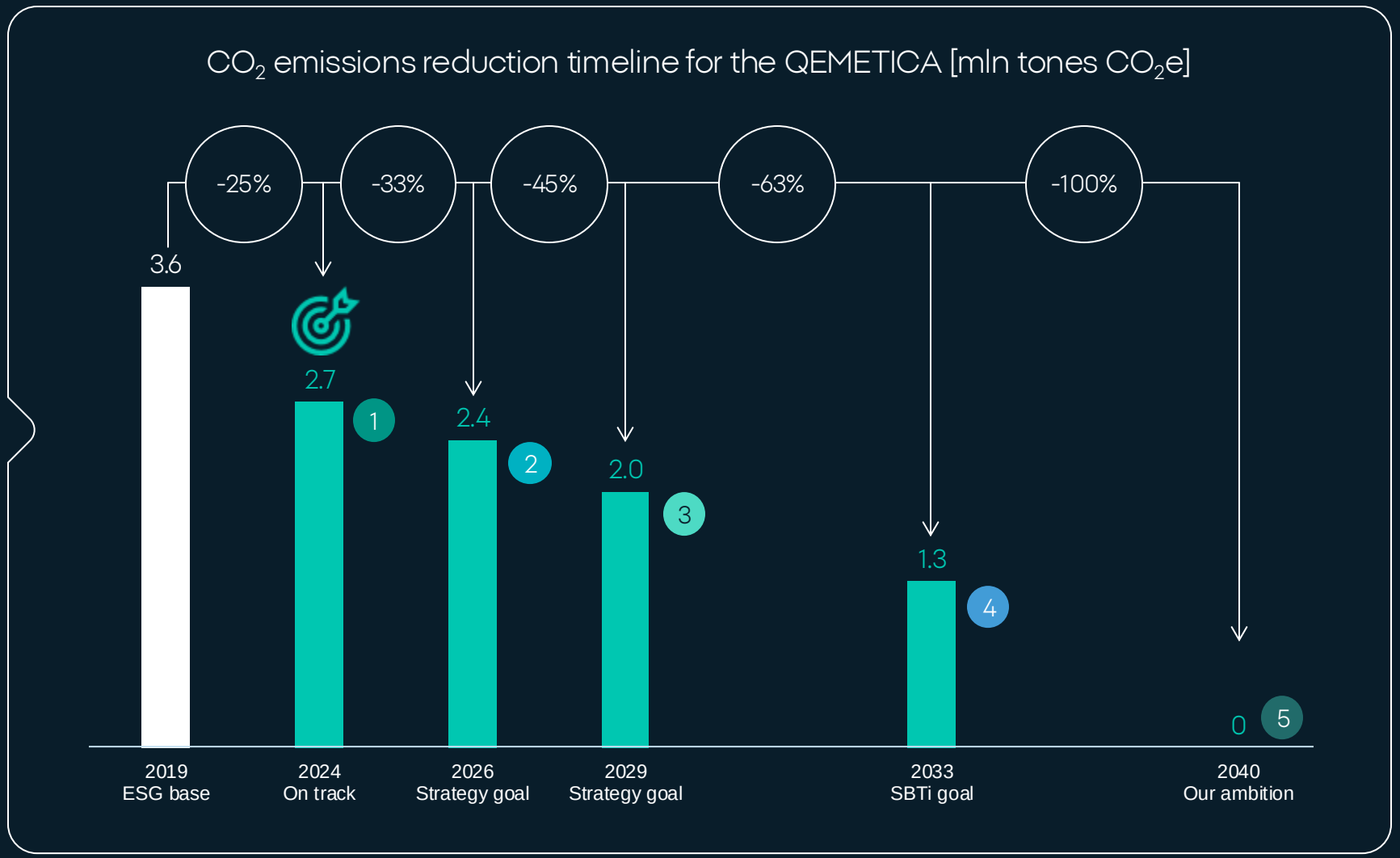
Our climate ambition

Scope 1 & 2 [tones CO_2e]

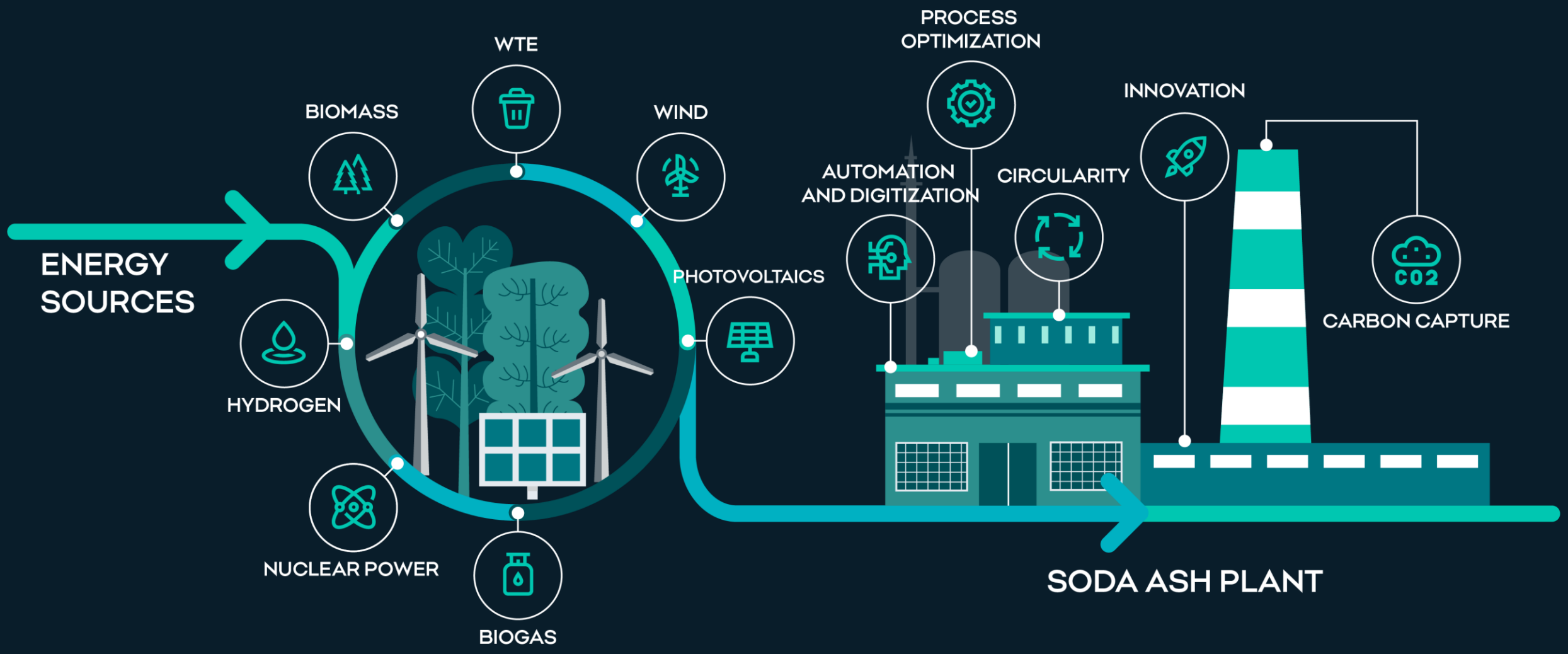
Scope 1 – direct GHG emissions from operations and assets that are owned or controlled by the reporting company.

Scope 2 – Indirect GHG emissions from the consumption of purchased electricity, steam, heating and cooling.

1. 2024: Reducing GHG emissions by 25%
2. 2026: Reducing GHG emissions by 33%
3. 2029: Reducing GHG emissions by 45%
4. 2033: Science-Based Target reduction by 63%
5. 2040: Achieving net-zero GHG emissions



Continuous journey to net zero



Diversified Energy mix till 2029

STASSFURT

- WtE Plant: **operating**
- Biogas: **operating**

JANIKOWO

- Biomass co-fire: **2024**
- PV: **2026**

INOWROCŁAW

- Biomass co-fire: **2024**
- Wind: **2025**
- PV: **2026**
- Biomass boiler: **2027**
- Natural gas boiler: 2028
- WtE Plant: **2028**

	BIOMAS BOILER	WIND	PV	WtE Plant	GAS BOILER
Status as 2024	- Finance secured * - Tender for Contractor in progress, - Environmental Impact Assessment - ongoing	Potential Acquisition of wind farm in Inowroclaw	- Project Development ongoing - Framework: PV as a service in Inowroclaw/ Janikowo	- Project development ongoing - Environmental Impact Assessment - ongoing	- Project development ongoing - construction of a gas connection - Documentation under preparation
Future Effects	- Reduced coal consumption by **100kt /year** - Reduced CO_2 emission by **200kt /year** - c.a. 20 per cent of nedeed steam covered by boiler	Electricity from Renewables.		- Reduced CO_2 emission ~ **c.a 250kt/year** - Reduced coal consumption **c.a.140kt / year** - c.a. 30 per cent of needed steam covered by WtE	- Reduced CO_2 emission **100kt/year** - Reduced coal consumption **100kt / year**

*including 25 mEUR from National Fund for Environmental Protection and Water Management

Process optimization – gradual improvements with substantial impact on efficiency

New in 2024

Advanced Process Control in all three factories

Optimized process of production soda to maximize the efficiency of Solvay's process

Heat Recovery

Turning heat back into the process to reduce the need for steam produced (7 initiatives at different stages).

Electricity Management

Constant efficiency growth thanks to turbine restoration, new compressor roll-out and other minor initiatives.

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ELECTRIFICATION – ONLY A PART OF THE SOLUTION

Electrification can be one of the tools in our box. It will not be the „silver bullet" for all industries and all processes – due to both technological and economic issues.

LIMITATIONS OF TECHNOLOGY

- Higher temperatures needed for some processes
- Energy efficicency and reliability
- Some use cases indeed considered – e.g. MVR

ENERGY MARKET ISSUES

- Energy prices for industry are too high and volatile
- Polish energy mix still not green enough
- Autoproduction - challenges
- PPA's – part of the solution

HOW TO FINANCE IT

- Electrification sounds simple – actually often we talk about building a new factory
- Industry already squeezed by OPEX – CAPEX needs to come from somewhere
- Essentially no EU nor Polish funding – very limited options in Modernisation Fund

QEMETICA® | Thank You

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