

Kanadevia
INOVA

For a future free of wasted waste

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Guided by a mission

"At Kanadevia Inova, innovation with impact means delivering real, measurable progress — for people, for industry, and for the planet we all share."

Bruno-Frédéric Baudouin
Chief Executive Officer & Member of the Supervisory Board



We are building the future of waste management infrastructure. Our world-leading Waste to X and renewable gas systems deliver tangible impact for communities, the environment and generations to come.

Our mission is to create lasting value for society. We are paving the way towards a future free of wasted waste. As a global, vertically integrated green utility and an innovation leader in the waste infrastructure sector, we actively drive decarbonisation, resource circularity and supply security for present and future generations.

We are global



Operating in

30+
countries

3,800+
employees around the globe

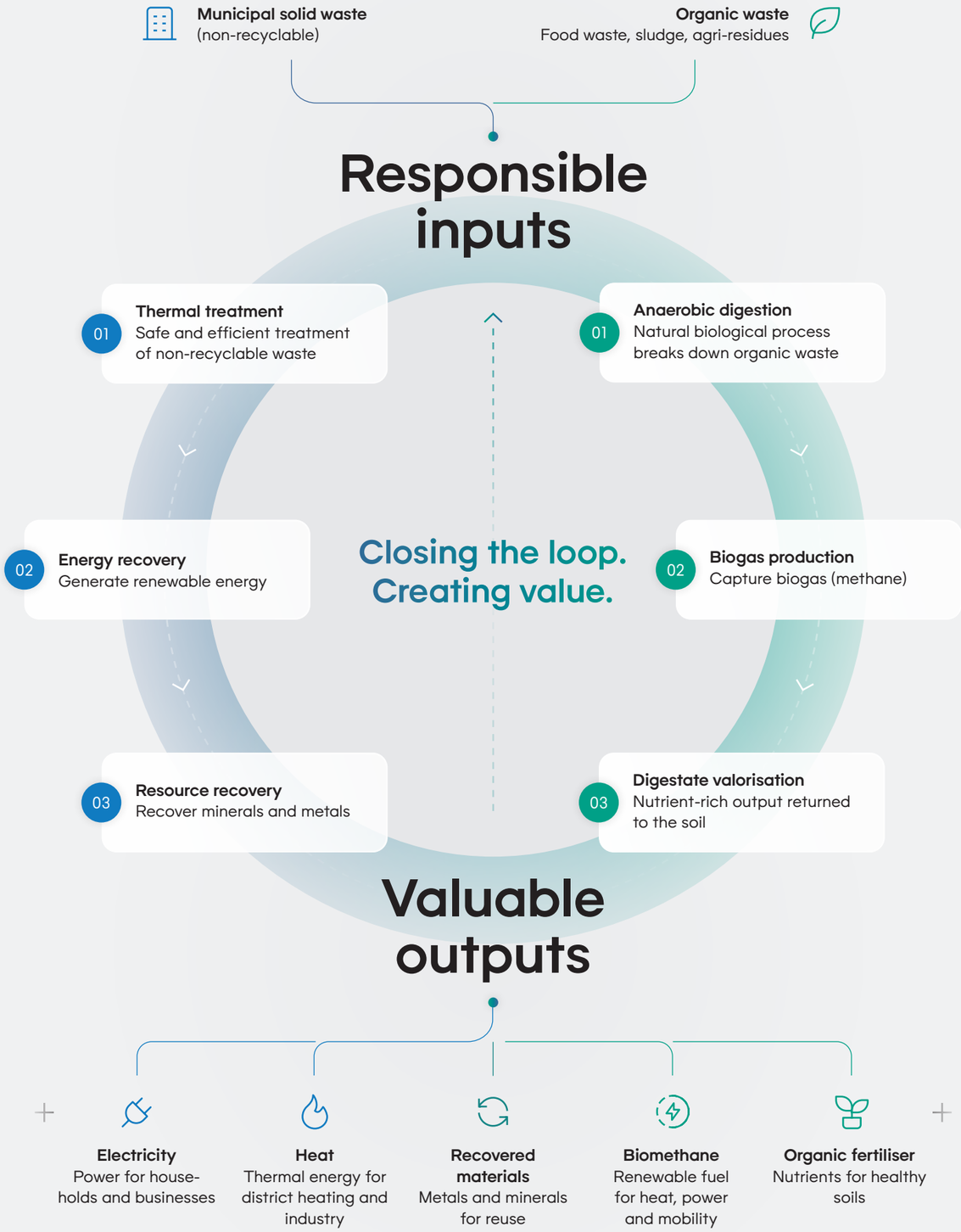
855+
filed patents

2,000+
projects successfully executed

Closing the loop. Creating value.

Waste is inherent to urban and rural communities alike.

A future free of wasted waste requires us to extract maximum value from every feedstock and every process. In line with the universally accepted waste hierarchy, we focus on what cannot be recycled and turn it into essential resources. What leaves our plants returns to the communities it came from: powering homes, heating neighbourhoods, fuelling mobility and feeding soils. Where we recover metals and heat homes today, we will fuel ships and fly planes tomorrow.



Solutions engineered for the long run

Developing, designing, building, operating and optimising Waste to X and Renewable Gas plants is our business.

Every solution is tailored to your site, feedstock and goals, combining proven engineering with digital monitoring and dedicated service support.

From first concept to daily operation, our teams work alongside yours, adapting each system as needs evolve. So performance holds not just on day one, but across the plant’s entire lifecycle.





Waste to X

Turning waste into resources

Waste to X converts waste materials into valuable outputs like energy, fuel, chemicals and materials. Instead of landfilling, waste is transformed through thermal, biological or chemical processes – reducing emissions while generating vital resources that boost circularity.

This shift turns disposal costs into recovered value for both businesses and environment.

Reliable technology for decades

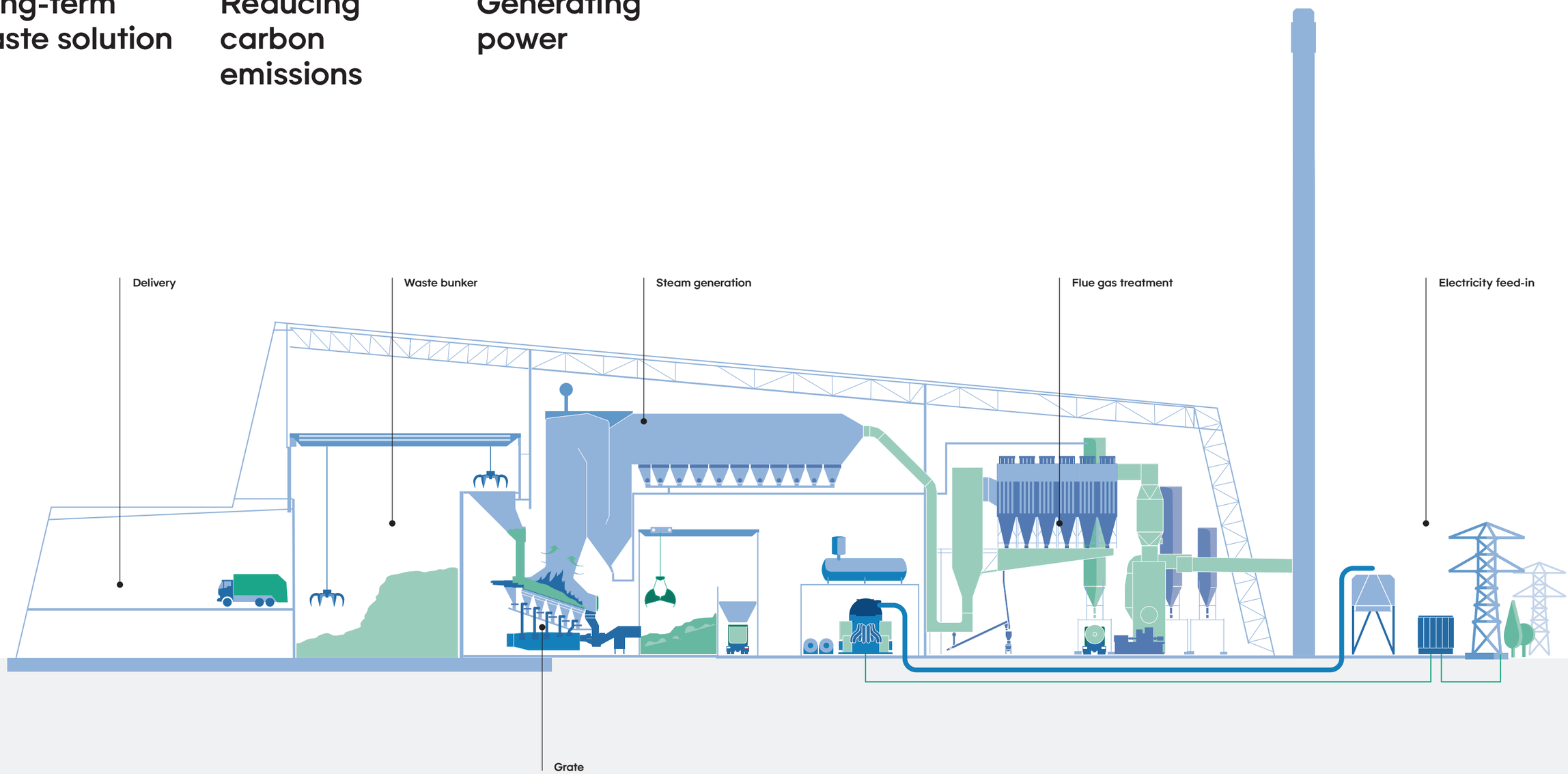
Long-term waste solution

Carbon capture supporting net zero

Reducing carbon emissions

Providing additional base load to the grid

Generating power



Waste to X projects

Every plant we deliver is shaped around its site, its waste and the community it serves.

From the Middle East to Europe and Australia, our Waste to X facilities turn non-recyclable waste into electricity, day after day. Here is what that looks like at scale – in tonnes, megawatts and decades.

Dubai’s flagship Waste to X project

Dubai Waste Management Centre, UAE

As a cornerstone of Dubai’s Net Zero 2050 strategy, this project sets new benchmarks for efficiency and sustainability.





Turkey’s first Waste to X plant

Istanbul Waste Power Plant, Turkye

At the time of completion the largest Waste to X plant in Europe. Located right next to Istanbul Airport.





Waste throughput	**1,000,000 t/a**
Electric power generation	**77 MW**
Number of lines	**3**

Powering 36,000 households

East Rockingham WtE, Australia

The East Rockingham Waste to X plant is located approximately 40 kilometres south of Perth, Western Australia.

View more Waste to X projects online



Waste throughput	**300,000 t/a**
Electric power generation	**28.9 MW**
Steam parameters	**66 bar / 431°C**

Renewable Gas

Clean energy, naturally sourced

Renewable gas is gas produced from organic or regenerative sources. It can replace fossil gas in heating, transport and industry with a significantly lower carbon footprint.

Because it draws on organic and regenerative sources rather than finite fossil reserves, it can be produced continuously and distributed through existing gas infrastructure with minimal change.



Reliable technology for decades

Long-term solution for biological waste

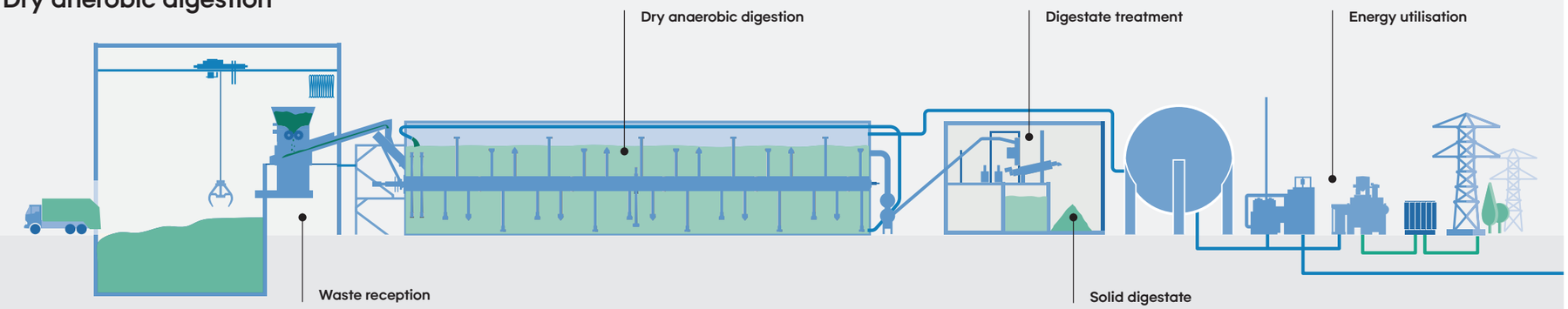
Supporting net zero through carbon capture

Reducing carbon emissions

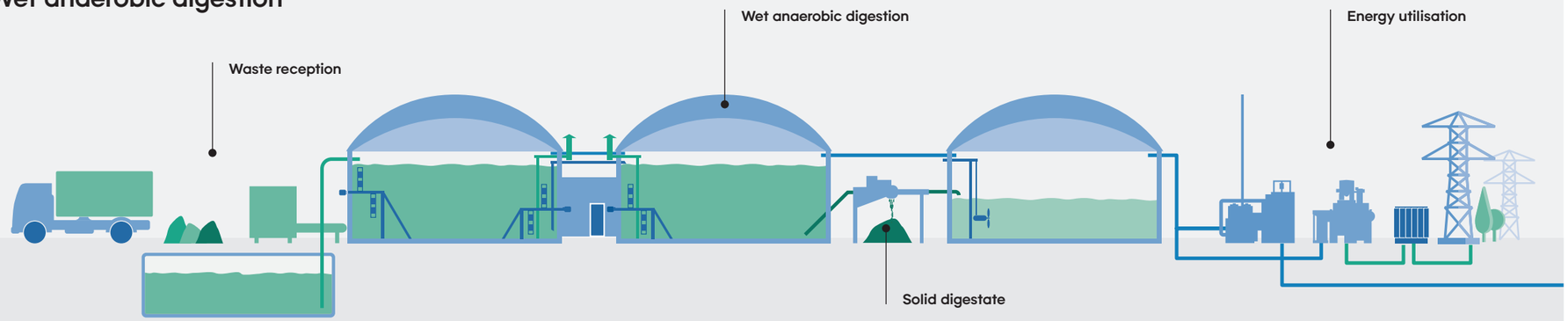
Renewable power promotes circularity

Production of biomethane

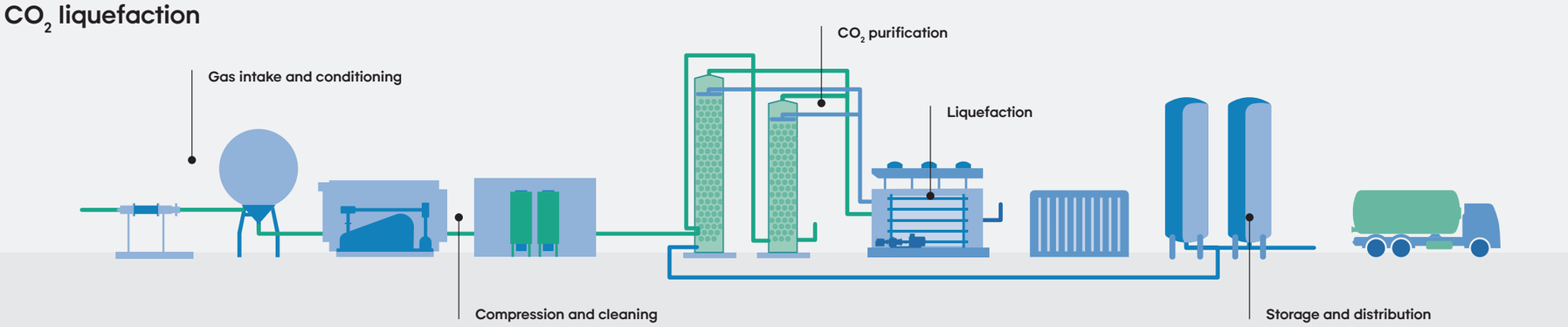
Dry anerobic digestion



Wet anaerobic digestion



CO_2 liquefaction



Renewable Gas projects

Organic waste is a resource waiting to be used. Across Northern Europe, our renewable gas plants turn food waste, manure and agricultural residues into biomethane for grids and vehicles, liquefied CO2 and fertiliser for local fields.

Each project is engineered for its feedstock – and built to perform long after commissioning.



Waste treatment capacity	**40,000 t/a**
Biogas generated	**6,300,000 m³/a**
Biomethane generated	**3,800,000 m³/a**



Fuel for buses and refuse trucks

Jönköping Biogas, Sweden

The organic fertiliser produced in the process is used in local agriculture. As the owner, Kanadevia Inova was responsible for the design, construction and operation of the plant.



Expanding biogas production

Apensen Gas Upgrading, CO_2 and Biomethane Liquefaction, Germany

The retrofit of the plant enables the facility to improve environmental performance and resource efficiency with manure-based feedstocks.



Processing raw gas of varying composition

Grasten Gas Upgrading, Denmark

This plant strengthens energy independence and supports Denmark's 2045 climate neutrality target.

View more renewable gas projects online



For a future free of wasted waste

Our portfolio

From the first feasibility study to long-term performance, we support Waste to X and Renewable Gas assets across their full life cycle.

Our teams cover development and financing, engineering and construction, then keep plants running through maintenance, monitoring and modernisation: one dependable partner from concept to continuous operation.

Development & financing

Supporting your project plans through individual or partner development and assisting your financial planning through coinvestment or joint partnerships.

· Feasibility studies
· Development expertise
· Financial planning

Engineering & construction

Compliant with all the relevant legal requirements, designed for optimum operation in economic and environmental terms, with maximum flexibility.

· EPC turnkey solutions
· Value engineering
· Lean construction management tool

Maintenance & spare parts

Managing your asset to increase availability and reliability through repairs, overhauls and technical audits.

· Automated inspections
· Long-term service agreements
· Full spare parts management

Monitoring & optimisation

Optimising your asset to improve efficiency and performance by monitoring, predictive maintenance and expert audits.

· Dashboard with reports and KPIs
· Remote supervision
· Expert support

Modernisation & upgrade

Developing your asset to enhance capabilities and throughput by system modernisation or modifications and equipment upgrades.

· Enhancing capabilities
· Equipment upgrades
· Implementing digital solutions

A legacy of innovation

Our heritage combines more than two centuries of engineering expertise. Founded in Switzerland in 1809, Ludwig von Roll & Cie laid the foundation for a long tradition of technological innovation. Meanwhile, in 1881, Edward Hazlet Hunter established Osaka Iron Works in Japan, later to become Hitachi Zosen.

In 1939, von Roll built its first turnkey waste incineration plant in the Netherlands, marking an important milestone in the development of waste-to-energy technology. The two companies' paths converged in 1960, when Von Roll and Hitachi Zosen Corporation signed a licensing agreement for grate technology in Japan.

In 2010, von Roll Inova became part of the Hitachi Zosen Group. The company expanded its activities into the renewable gas sector in 2014, broadening its technological portfolio and strengthening its contribution to the circular economy.

Rebranded as Kanadevia Inova in 2024, we continue to build on our engineering heritage to advance technologies that transform waste into valuable resources.

1965
First thermal waste treatment plant

Japan

1881
Founding of Osaka Iron Works



1995
Power to Gas (PtG) implementation

2024
Rebranding to Kanadevia Inova

2014+
Further growth and acquisitions within the Renewable Gas market

2020
Growth and acquisitions in engineering and service



1809
Founding of Ludwig von Roll & Cie

1939
First waste combustion plant in Dordrecht

1960
Licence between Von Roll and Hitachi Zosen Corporation

2011
The company becomes part of the Hitachi Zosen Corporation and is now named Hitachi Zosen Inova

Switzerland

Best **employees** never waste **potential.**

They drive impact, growth and global collaboration.

Our culture underpins our commitment to meaningful impact, sustainable growth and global collaboration. By tackling complex challenges, we turn our work into tangible outcomes that deliver genuine value for both communities and the environment.

As our organisation evolves, our teams continuously build technical depth and specialist expertise through hands-on projects, fostering strong, lasting partnerships. Working seamlessly across borders and disciplines as a unified team, we combine international experience with local execution to successfully deliver highly complex projects.



Purpose & impact

At Kanadevia Inova, our vision and mission reflect a strong commitment to sustainability. Implementing our ESG strategy accelerates our journey.



Environmental

Become a net zero company

Minimising our impact on the environment by reducing our scope 1, 2 and 3 emissions to net zero by 2050.

Make resources circular

Minimising our impact on the environment and contributing to a circular economy by considering recycling, recyclability and recycled materials throughout our value chain.

Social

Wellbeing of communities

Increasing our positive impact on local communities by contributing to the creation of jobs and associated wealth and development.

Wellbeing of our employees

Treating all employees fairly and with respect, caring for their health and safety and enabling them to realise their full potential.

Wellbeing of collaborators in the value chain

Holding our partners to the same high social and ethical standards as ourselves.

Governance

Be a model of leadership excellence

Establishing transparency, accountability, ethical leadership and adherence to best governance practices.

Be a good corporate citizen

Maintaining a culture of integrity, accountability and transparency by preventing, detecting and addressing corruption, bribery and fraud.

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