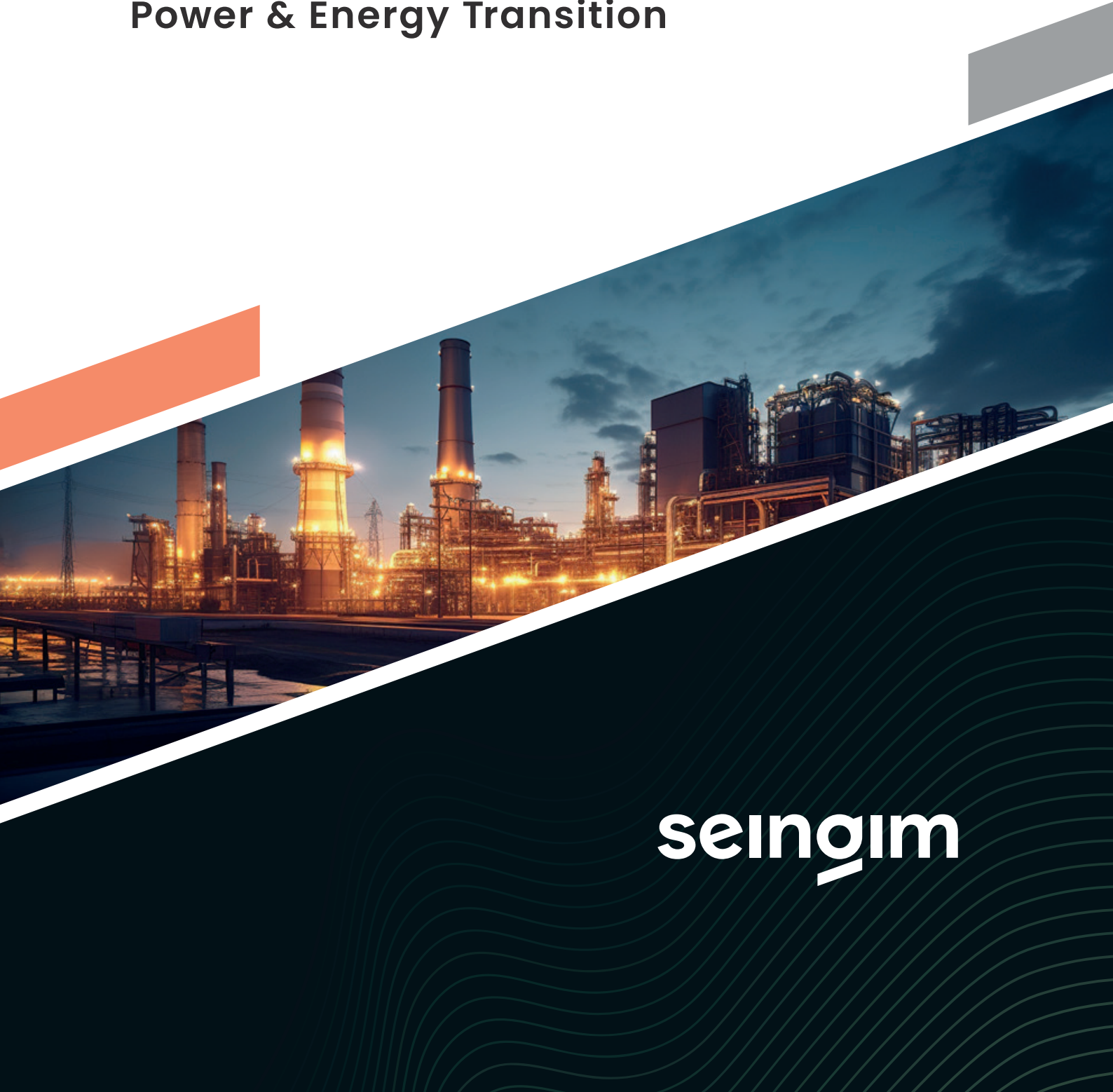


2026 Edition



BUSINESS UNIT

Power & Energy Transition



seingim

ABOUT US

/ Being Seingim

Since 1997, Seingim has been generating value and making a significant contribution to the advancement of civil and industrial engineering, not only in Italy but also worldwide.

Collective well-being is at the core of our engineering philosophy. This is why we strive every day to transform our vision into valuable solutions and opportunities for both people and the environment.

Our clients and partners benefit from the expertise of **over 560 professionals**, a comprehensive suite of integrated services and a strong commitment to innovation and excellence.



/ Our Operating Offices

- Ceggia (Venice) - HQ
- Milan
- Rome-Prati
- Rome-Parco de' Medici
- Genoa
- Turin
- Padua
- Verona
- Bolzano
- Ispra
- Trieste
- Udine
- Ferrara
- Fano
- Cagliari
- Taranto
- Vibo Valentia
- Catania
- Almaty (KZ)
- Riyadh (SA)
- Basel (CH)
- Munich (DE)

Quality Standards & Certifications

- Quality: **ISO 9001:2015**
- Environment: **UNI EN ISO 14001:2015**
- Health & Security: **UNI EN ISO 45001:2023**
- Energy: **UNI CEI EN ISO 50001:2018**
- BIM: **UNI/PdR 74:2019**
- Social Responsibility: **SA 8000:2014**
- Information Security: **UNI CEI EN ISO/IEC 27001:2024**
- Gender Equality: **UNI PdR 125:2022**

/ Vision

Seingim aims to become a global leader in multidisciplinary engineering, delivering advanced and sustainable technological solutions for industry and infrastructure, ensuring efficiency, safety and innovation.

/ Mission

Seingim develops innovative and sustainable engineering solutions by integrating advanced technologies and multidisciplinary expertise to ensure efficiency, safety and high-quality standards in industry and infrastructure.

COMPANY

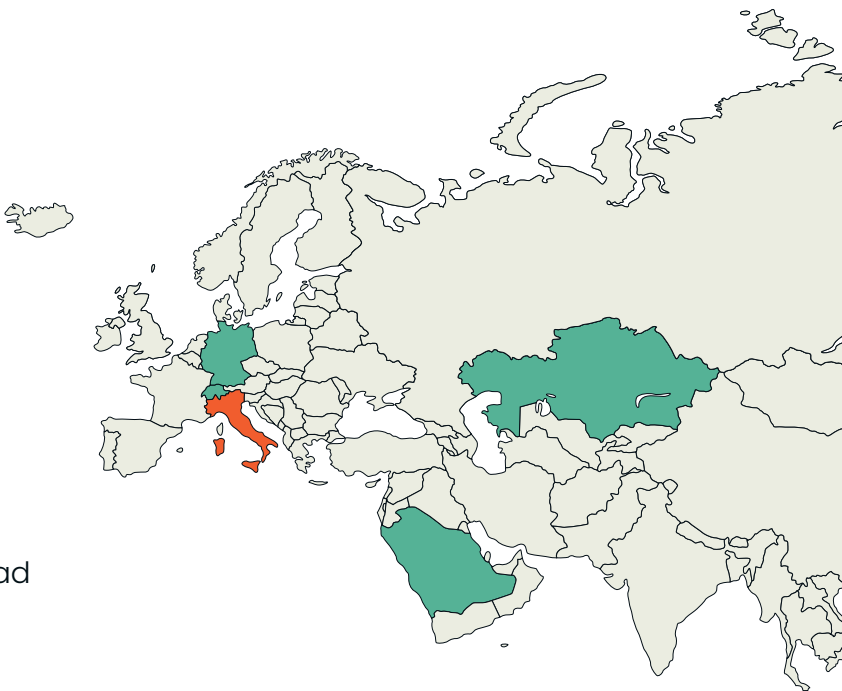
/ Key Data

560+
Resources at
Seingim

180+
New entries in
2025

1.1 Mln
Engineering
hours in 2026

22
Group offices:
18 in Italy and 4 abroad



WHAT WE DO

/ Always With Passion

We manage complex projects by leveraging multidisciplinary expertise, advanced methodologies and a highly skilled team

Our approach is defined by the adoption of BIM, a state-of-the-art tool that centralizes project information, enhances planning accuracy, minimizes errors and facilitates cross-disciplinary collaboration. This enables us to consistently deliver reliable and high-quality results.

Continuous training and professional development are fundamental to our success. We ensure that our team remains at the forefront of technological advancements, maintaining the ability to provide high-quality, future-ready solutions for our clients.



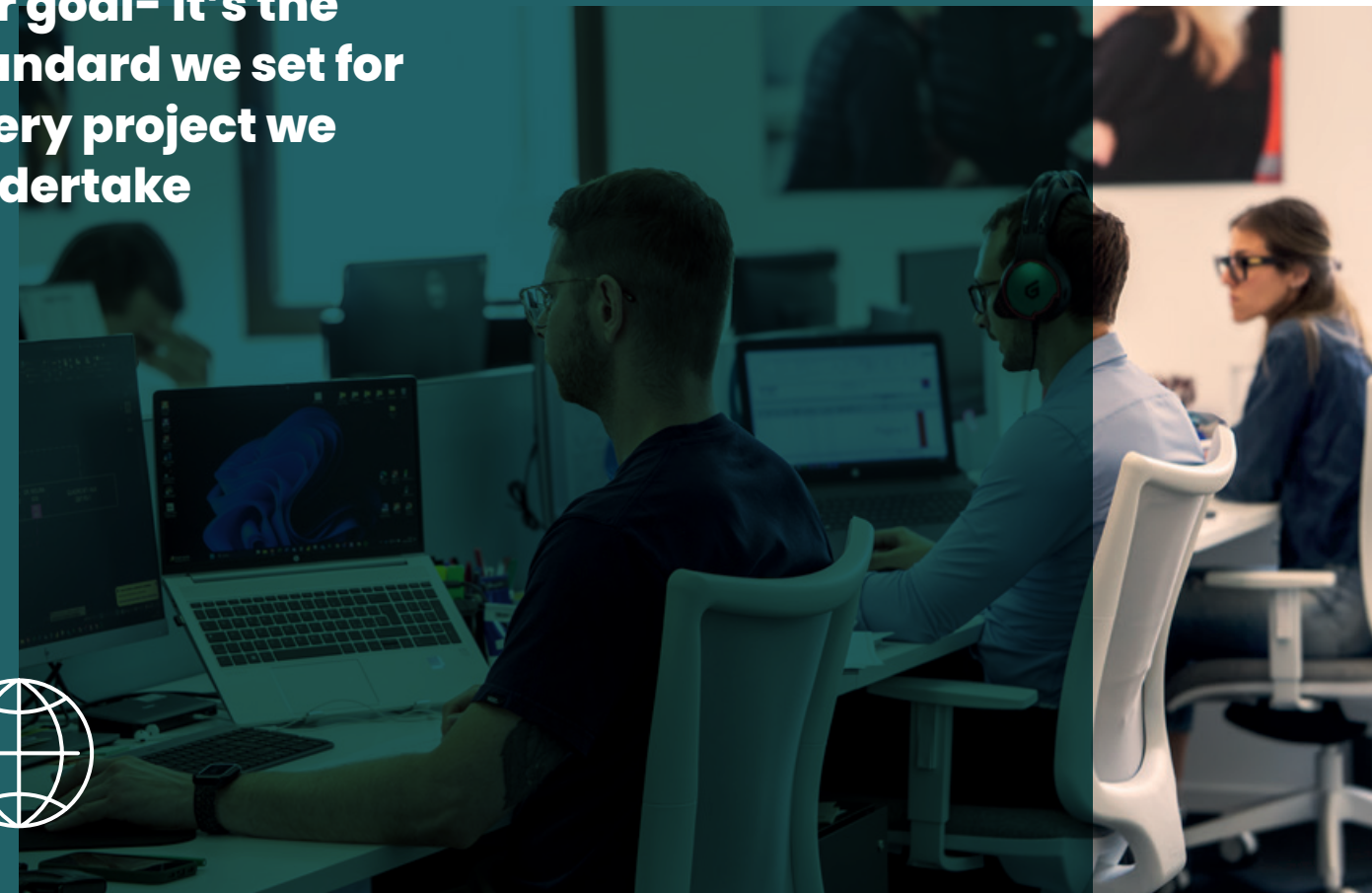
HOW WE DO IT

/ Our Process

At Seingim, we adopt a structured approach that integrates transparency, innovation and multidisciplinary expertise. With a proven methodology, we efficiently manage complex projects, ensuring quality and precision.

Our commitment to excellence is strengthened by a multidisciplinary team that combines technical expertise with continuous learning. We heavily invest in professional development, equipping our workforce with cutting-edge knowledge and tools to stay ahead in a rapidly evolving industry. This synergy of talent, technology and methodology allows us not only to meet expectations but to exceed them, fostering long-term partnerships with our clients.

Excellence isn't just our goal- it's the standard we set for every project we undertake



OUR EXPERTISE

/ Business Sectors

Our multidisciplinary expertise enables us to successfully operate across a broad range of industries, delivering tailored solutions that meet each client's specific needs. By combining advanced technical capabilities with an innovative approach, we effectively tackle complex challenges, ensuring quality, sustainability and outstanding results.

- Chemical & Petrochemical
- Life Sciences
- Oil & Gas
- Buildings
- Water & Transport Infrastructure
- Smart Solutions
- Infrastructure
- Renewable Energies
- Energy Efficiency
- Industry 5.0
- Management & Consulting
- Environmental Permitting
- Site Survey
- Power Plants & Energy Transition

Every project starts with an idea and with us ideas become reality.



/ Our Organization



LIFELONG LEARNING

/ Professional Growth

We believe in continuous improvement. In the engineering sector, staying up to date is essential to meeting industry standards and driving innovation. That's why we invest in development programs to ensure our team is always equipped to tackle new challenges and deliver cutting-edge solutions.

/ Our Design Solutions

Multidisciplinary Engineering & Management:

- Pre-feasibility Studies (Concept Selection)
- FEED (Front End Engineering Design)
- DDE (Detailed Design Engineering)
- Construction Management activities

/ Our Technical Disciplines

- Environmental Permitting
- Technical Safety Engineering
- Process Engineering
- Static Equipment, Rotating Machines & Package Engineering
- Piping & Layout Engineering
- Civil & Structural Engineering
- Electrical Engineering
- HVAC Engineering
- Instrumentation, Automation & Telecommunications Engineering
- Energy Engineering
- Project Management & Consulting
- Multidisciplinary Site Survey
- Construction Management

SOLUTIONS FOR ENERGY TRANSITION

/ Innovation, Engineering, and Sustainability for Power Plant Development and Optimization



With extensive expertise and a highly specialized team, we deliver cutting-edge engineering solutions for energy production, conversion, and distribution.

Our multidisciplinary approach enables us to design and optimize utility-scale power plants that harness the full potential of renewable and high-efficiency thermal energy sources. Every project is driven by a strong focus on sustainability, emissions reduction, and performance maximization.

Every project we develop integrates seamlessly across multiple domains:

- **Regulatory Compliance & Environmental Impact:** Managing permits, impact assessments, and compliance with energy and environmental regulations.
- **Engineering & Performance Optimization:** Designing high-efficiency power generation systems with advanced technologies for maximum output and reliability.
- **Construction & Commissioning:** Overseeing full project execution, from procurement and installation to testing and operational startup.

Energy transition & Power Plants

A Seamless Journey: From Concept to Operation

Our Power Plants Business Unit provides advanced engineering services across the entire lifecycle of energy generation facilities—from conceptual design to construction, commissioning, and performance optimization.

Innovation,
Engineering,
Sustainability

POWER PLANTS

Power engineering is at the core of our expertise, where innovation, reliability and environmental responsibility converge. We provide integrated solutions for energy infrastructures, optimizing performance while ensuring sustainability and regulatory compliance. Our multidisciplinary approach encompasses advanced engineering strategies, from initial feasibility studies to long-term asset management, driving efficiency across every stage of a project.

/ Fields of Application

Conventional Power Generation

We support the design and management of coal, gas, and oil-fired power plants, ensuring efficiency, safety, and environmental compliance. We provide solutions for plant modernization aimed at improving performance and reducing emissions.

Nuclear Power Generation

Nuclear energy plays a strategic role in the energy mix due to its ability to provide stable, low-carbon electricity. We offer engineering services for the design, upgrade, and management of nuclear power plants, with a strong focus on safety and reliability.

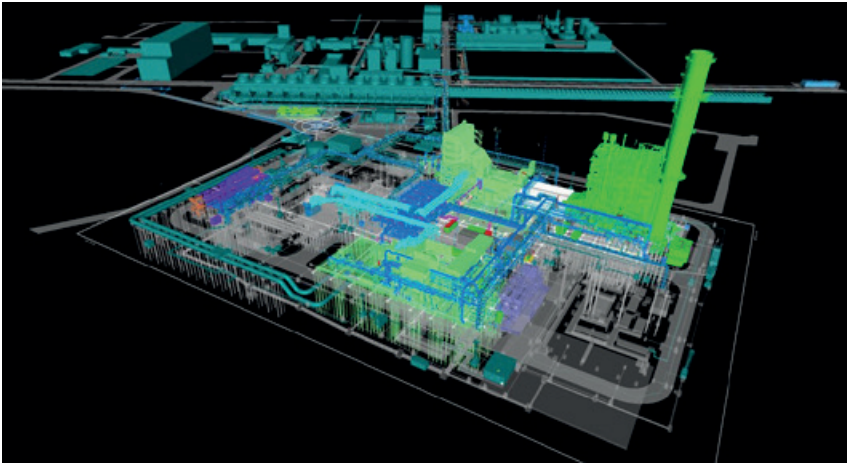
/ Our Services

HV/HV, HV/MV, and CP Electrical Substations

We design high and medium voltage substations for an efficient, safe electrical grid ready for renewable integration. Our approach is oriented towards automation and digitalization.

/ Representative project

Location	Italy
Year	2021 - 2023
Service	Energy reconversion of the Andrea Palladio Thermoelectric Power Plant.
App. Field	Power - Combined and open cycle thermoelectric power plants
Tasks	Multidisciplinary project: design (BIM) for BoP, plant, mechanical, civil, electrical, and automation, construction management and supplier document. follow-up.



The plant covers 449,451 m², including about 71,000 m² for buildings. The project involves installing a combined cycle (CCGT) with a capacity of 860 MWe, replacing existing coal units. This effort aligns with the Integrated National Energy and Climate Plan, which calls for converting to gas or decommissioning coal-fired plants.



ENERGY TRANSITION

/ Innovative Solutions for a Sustainable Future

Green Hydrogen Production

Green hydrogen is a key resource for energy transition and the decarbonization of industrial and transport sectors. We offer advanced expertise in the design and implementation of hydrogen production plants through electrolysis, integrating renewable energy sources for sustainable and competitive production.

Battery Energy Storage System (BESS)

Battery energy storage systems are essential for stabilizing electrical grids and optimizing the management of renewable energy. We design tailored solutions for BESS integration, ensuring high standards of efficiency and safety, with state-of-the-art technologies for optimized energy distribution.

Biogas Plant

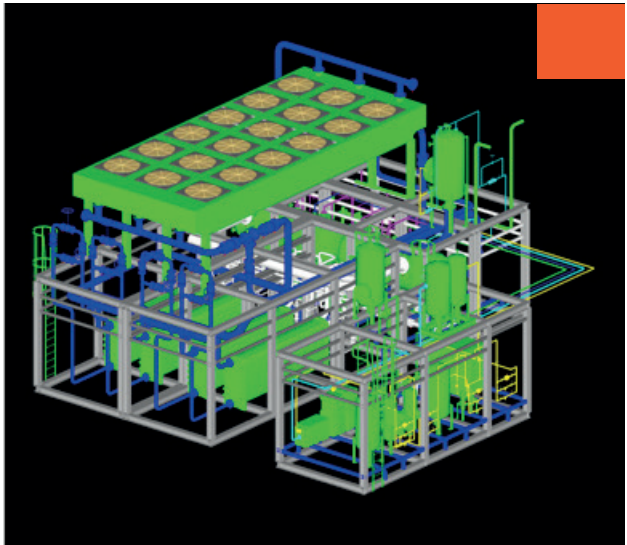
Biogas plants provide a concrete opportunity to harness organic waste and contribute to environmental sustainability. We offer engineering services for the design and optimization of anaerobic digestion plants, ensuring maximum efficiency in biomethane production and byproduct management.

Carbon Dioxide Capture & Utilization or Storage (CCUS)

Carbon capture, utilization, and storage (CCUS) solutions are key to reducing industrial emissions. We provide expertise in designing and implementing CCUS facilities, supporting companies in their transition to low-impact production models, and promoting a circular economy through CO₂ reutilization.

New hydrogen production plant with 7.5MW capacity of alkaline electrolyser.

Seingim has developed the engineering for the design of a new modular plant, consisting of several containers, for the production, storage and distribution of hydrogen from an electrolytic process (alkaline electrolysis of water). The new plant will have an installed capacity of 7.5 MW, with a hydrogen gas productivity of about 1760 Nm3/hour (wet gas from electrolyzers) at a maximum pressure of 30 bar g.



Location	Confidential
Year	2022 - 2023
Service	Multidisciplinary detailed design: Process, Piping (including Autocad Plant 3D development), MEP, Instrumentation & Automation. Tecnichal bid evaluations for plant items/ packages procurement.
App. Field	Renewable Energies – Hydrogen Power Plants
Tasks	Basic and FEED design

Focus on
GREEN HYDROGEN
/ Carbon Neutrality



Hydrogen is a key driver of the energy transition, enabling sustainable solutions for industry, mobility and power generation.

Seingim is committed to advancing green hydrogen production, storage and integration technologies, playing a key role in the decarbonization of the energy sector. Hydrogen represents a fundamental pillar in the transition to renewable energy and carbon-neutral industrial processes, offering one of the most sustainable alternatives to fossil fuels across various applications.

By leveraging cutting-edge engineering solutions, Seingim designs and develops high-efficiency hydrogen production plants, ensuring seamless integration with existing energy infrastructure. Our expertise covers power-to-gas systems, large-scale hydrogen storage&transport and industrial applications, enabling the development of a clean and efficient hydrogen economy.



Design of power-to-gas plants with advanced electrolyzers

We develop hydrogen production systems using electrolysis optimizing efficiency and sustainability.



Integration of hydrogen into industrial processes for decarbonization

We design solutions to replace fossil fuels in energy-intensive industries.



Storage and transport technologies for large-scale deployment

We analyze infrastructure for pipelines, cryogenic tanks and chemical carriers to ensure effective hydrogen distribution.



Development of hydrogen production from renewable sources

We engineer systems that integrate solar, wind and biomass energy for zero-emission hydrogen generation.

New hydrogen production plant from a sewage facility

The new hydrogen production plant will utilize electrolysis with water from the evaporative tower circuit of a waste-to-energy facility. At full capacity, it will generate 760 tons/year, with 120 tons/year produced from renewable energy via a dedicated photovoltaic plant and storage system. Additional electricity demand can be supplemented by the waste-to-energy facility.

The produced hydrogen will be used to power:

- Fuel-cell buses for local public transport.
- Rail and road transport within port and back-port logistics.
- Industrial fleet vehicles serving the local industrial area.



Location	Italy
Year	2024
Service	New hydrogen production plant using electrolysis near a waste-to-energy facility, powered by a photovoltaic system
App. Field	Hydrogen
Tasks	Basic and FEED design

Focus on

ENERGY STORAGE SYSTEMS – BESS

/ Carbon Neutrality
– Renewable Energies

Battery Energy Storage Systems (BESS) play a crucial role in grid stabilization and optimizing the integration of renewable energy, enhancing both energy production management and consumption efficiency.

/ Our Services

✓ **Design of storage systems with lithium-ion and advanced battery technologies.**
We develop energy storage systems utilizing lithium-ion and other advanced battery technologies, ensuring high storage capacity, operational efficiency and extended lifespan.

✓ **Optimization of charge and discharge management for maximum efficiency.**
We implement advanced strategies for charge and discharge cycle management, minimizing energy losses and maximizing overall system efficiency.

/ Our Services

✓ **Economic and financial feasibility analysis for sustainable investments.**
We conduct comprehensive economic and financial feasibility studies to support sustainable investments, evaluating operational costs, return on investment and available incentives.

✓ **Integration with renewable plants to enhance grid reliability.**
We design storage solutions integrated with renewable energy plants to improve grid stability, mitigate production variability and enhance the reliability of energy supply.

/ Representative project

FEED Design of the Stand-Alone BESS System

Location	Italy
Year	2023 – 2024
Service	FEED
App. Field	Stand-Alone BESS System
Tasks	Multidisciplinary design for MASE authorization and PTO connection study



Seingim has been entrusted with the multidisciplinary FEED design of a 98.80 MWp Stand-Alone Battery Energy Storage System (BESS). The project is aimed at obtaining MASE authorization and the related PTO (Point of Connection). Designed to support grid stability and optimize energy storage, the system will enhance the efficiency of renewable energy integration.

Focus on

WASTE TO ENERGY

/ Carbon Neutrality

A sustainable future requires an innovative approach to waste, transforming it from a burden into a resource. Advanced Waste-to-Energy solutions enable efficient energy recovery, minimize environmental impact and contribute to a circular economy. Seingim develops cutting-edge strategies that enhance waste valorization, optimize energy conversion and integrate intelligent systems, paving the way for cleaner and more resilient infrastructure.



/ Our Services



Biomass, Biofuels and Anaerobic Digestion Plants.

We design and implement advanced systems for converting organic waste into biogas, optimizing energy recovery while promoting sustainable resource management.



BioLNG Production.

We develop efficient processes for producing BioLNG from biogas, including purification and liquefaction steps, enabling the use of renewable natural gas for a cleaner energy future while reducing dependency on fossil fuels.



Thermal treatment and Incineration.

We provide integrated solutions for waste incineration, converting non-recyclable waste into valuable energy, while minimizing emissions and maximizing material recovery.



Gasification Technology.

We develop cutting-edge gasification systems to convert waste into syngas, enabling the production of renewable energy and the efficient recovery of resources from materials that would otherwise be discarded.

/ Representative project

Design of two bioLNG production plants from biogas

Location	Italy
Year	2022
Service	BOP detailed design and upgrading facilities converting OFMSW to bioLNG for automotive use
App. Field	Power Plants
Tasks	Multidisciplinary design, Site and Construction Management



Basic and detailed multidisciplinary design for the implementation of the Balance of Plant for two bioLNG upgrading plants from biogas. The biogas, generated from the anaerobic fermentation of OFMSW (Organic Fraction of Municipal Solid Waste), initially used for cogeneration, is converted into LNG (Liquefied Natural Gas) using a plant that operates, in sequence, with pre-treatment of the biogas, followed by upgrading to biomethane using selective membrane systems, final purification, and lastly, liquefaction using a refrigeration cycle.

The transition to sustainable energy requires strategic decisions to foster innovation and progress in power generation.

Seingim is the trusted technical partner to bring these advancements to life.

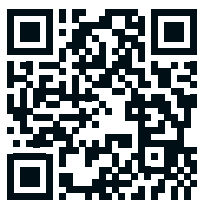


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our corporate documents

**DESIGNING
CHANGE,
BUILDING
THE FUTURE.**

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