

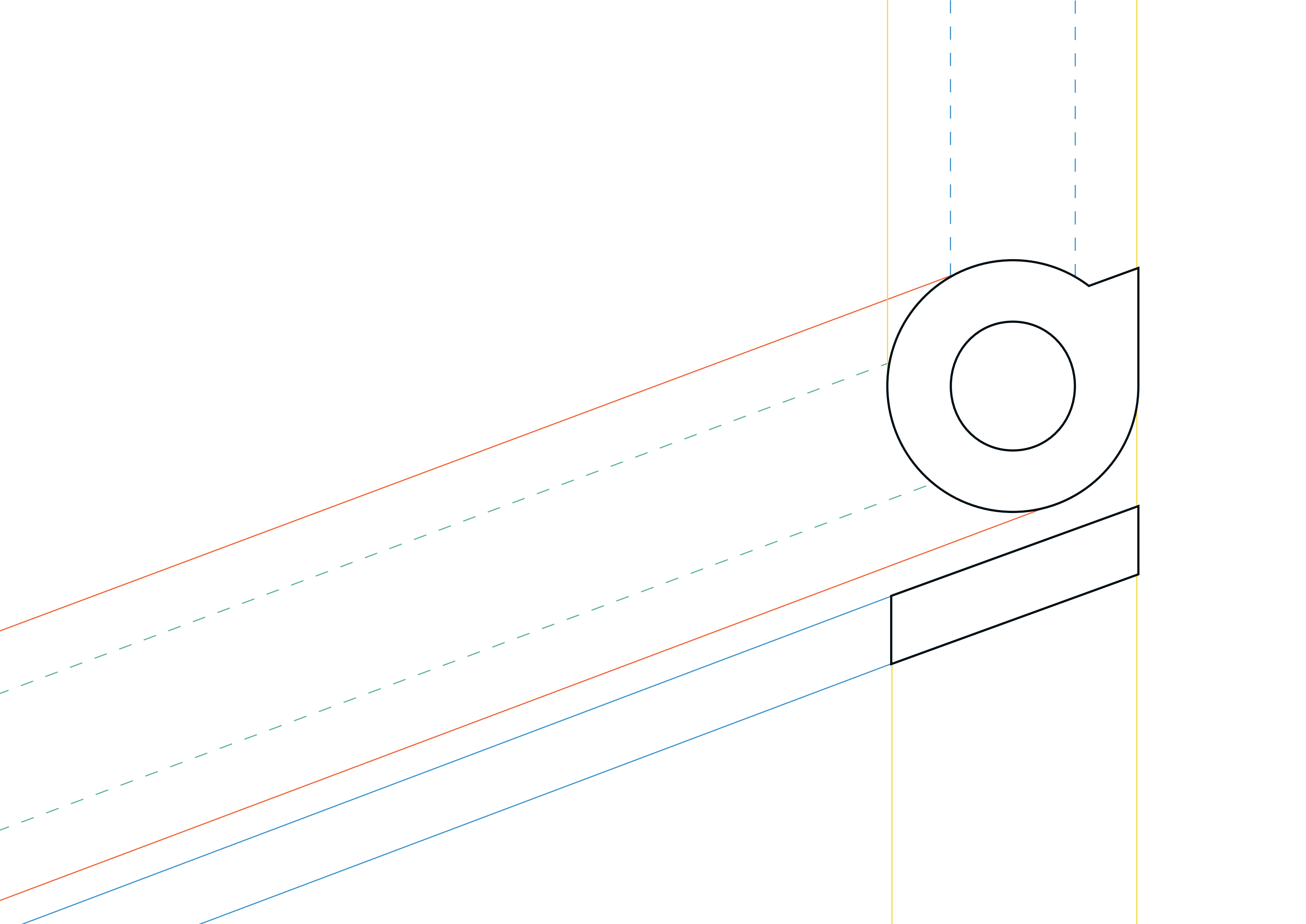
2026 Edition



## COMPANY PROFILE



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 and Safety: **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

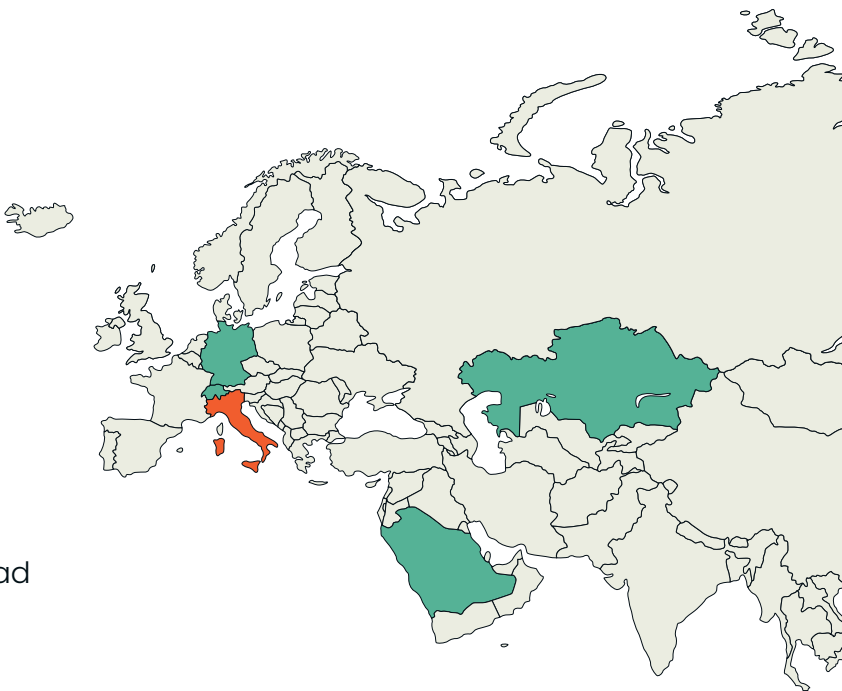
/ Key Data

**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.



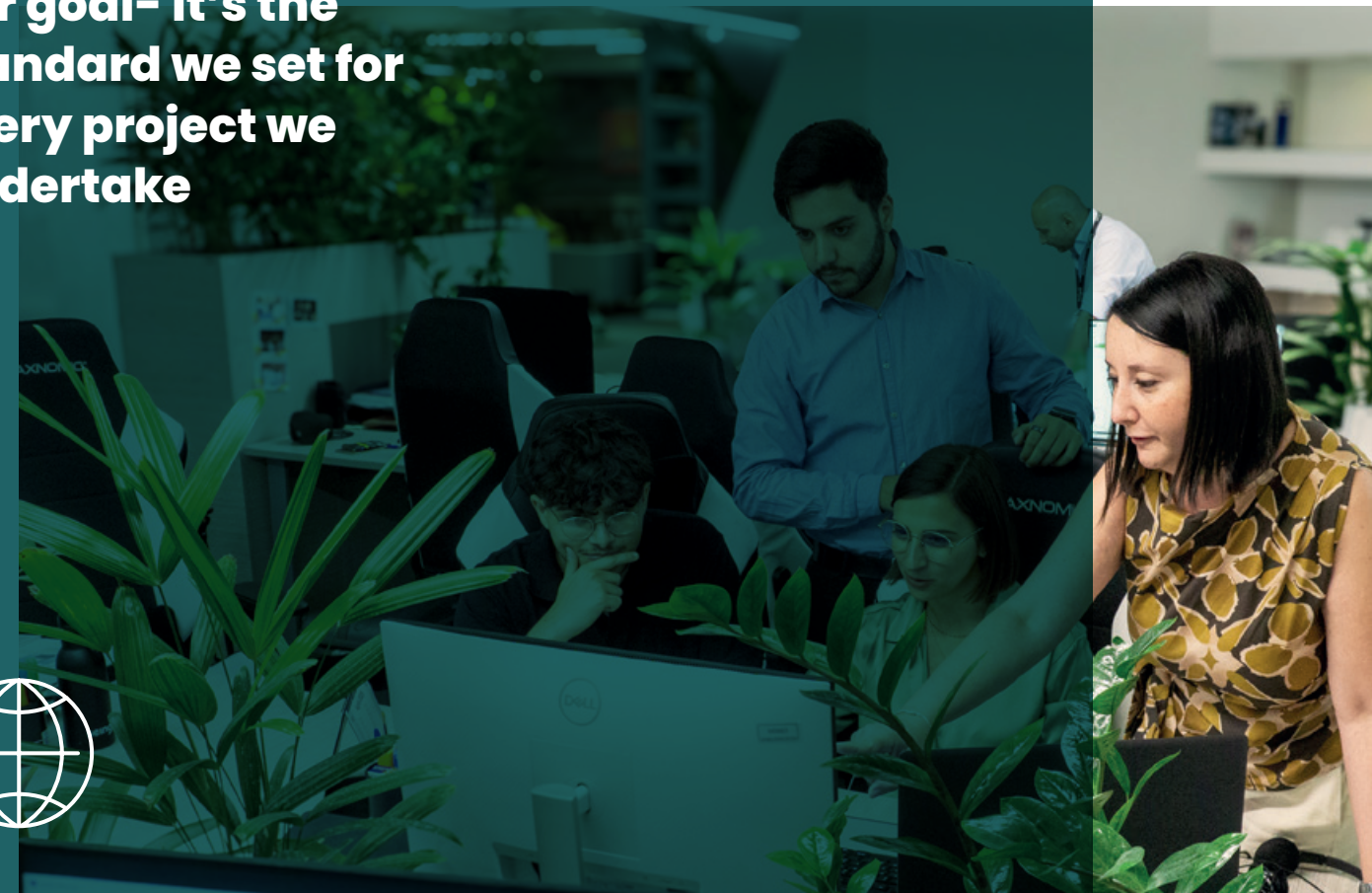
# HOW WE DO IT

/ 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.

- Buildings
- Infrastructure
- Renewable Energies
- Water & Transport Infrastructure
- Environmental Permitting
- Smart Solutions
- Energy Efficiency
- Industrial Energy Transition
- Power generation
- Oil & Gas
- Petrochemical
- Chemical
- Pharma & Life Science
- Management & Consulting
- Telecommunications
- Site Survey

**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 Technical Capabilities

- Process & HSE Design Engineering
- Machinery & Package, HVAC Engineering
- Piping & Layout Engineering
- Civil & Structural Engineering
- Electrical Engineering
- Energy Engineering
- Instrumentation, Automation & Telecommunications Engineering
- Project Management & Consulting
- Environmental Permitting
- Site Surveys
- Construction Supervision

# CHEMICAL, PETROCHEMICAL & PROCESS PLANTS

Seingim delivers advanced engineering services for the chemical and petrochemical industries, ensuring efficiency, safety and sustainability in complex process environments. Our expertise ranges from initial feasibility studies to detailed engineering and project execution.

### Process Engineering & Systems Optimization

FEED and Detailed Engineering, integrating HVAC, Electrical, Instrumentation & Control (I&C) systems.



### Safety & Risk Management

Process & safety analyses, including Hazard and Operability (HAZOP) studies, risk assessments and Computational Fluid Dynamics (CFD) simulations.



### Project Execution & Lifecycle Support

End-to-end project management, supporting our clients, from procurement and construction phase to commissioning to achieve long-term operational efficiency.



## Green Ammonia & Hydrogen Technology Hub

|          |                                                                                                                           |
|----------|---------------------------------------------------------------------------------------------------------------------------|
| Location | Portugal                                                                                                                  |
| Year     | 2024                                                                                                                      |
| Tasks    | Multidisciplinary FEED: Piping, Civil & Structural, Buldings, HVAC, Instrumentation & Automation, Telecom and Electrical. |
| Manhours | 40.000                                                                                                                    |



Plants Capacity:

- Name Plate 1,200 MTPD Haber-Bosch Ammonia synthesis
- 300,000 tonnes Ammonia / year
- 50,000 tonnes Hydrogen / year

Water Treatment (DEMI) + KOH, Electrolysis (Hydrogen generation), Hydrogen storage, Ammonia Synthesis (Haber-Bosch), Nitrogen Generation (NGU), Ammonia Storage, Ammonia Pipeline, Ammonia Loading and Shipping.



We design solutions that enhance operational efficiency, safety and environmental sustainability and ensure that each project meets the highest industry standards while addressing the evolving challenges of modern industrial production. Our commitment to innovation and precision engineering enables us to support clients in optimizing processes, mitigating risks and achieving long-term reliability across complex chemical and petrochemical infrastructure.



# OIL & GAS



**Providing innovative, multidisciplinary engineering solutions to drive efficiency, reliability and sustainability in the ever-evolving energy sector.**

Seingim stands at the forefront of the Oil & Gas industry, where innovation, efficiency and sustainability converge. We deliver integrated solutions for both onshore and offshore plants, ensuring operational excellence, safety and environmental

stewardship. Our expertise encompasses comprehensive engineering services, from feasibility studies to project management, enabling us to meet the rigorous standards of the industry and contribute to a sustainable energy future.

# Our services



## Basic Engineering and FEED

We conduct thorough feasibility assessments and develop FEED to ensure project viability, cost-effectiveness and alignment with client objectives.



## Multidisciplinary Detailed Design and Construction Support

Our team provides detailed design and construction support, integrating process, civil, structural, mechanical and electrical disciplines to optimize functionality and compliance.



## Project Management & Control

We apply robust project management methodologies to oversee project execution, ensuring adherence to timelines, budgets and quality standards.



## Commissioning, Start-Up and Assistance

Our services extend to commissioning, start-up assistance.

# Our Project

## North Field Liquefied Natural Gas

The scope of work included the development of process data sheets, P&IDs, instrument data sheets, control system definition, utility and electrical load summaries, and hazard classification for each unit. Detailed engineering was performed for units 72 (Refrigerant Make-up & Storage), 83 (Fire Protection System, tanks and pumping system only), 95 (Compressed Air), and 96 (Nitrogen production), based on the FEED phase documentation.



|          |                                                                                  |
|----------|----------------------------------------------------------------------------------|
| Location | Saudi Arabia                                                                     |
| Year     | 2023 - 2025                                                                      |
| Service  | Utilities & Offsite (U&O) Design, P&IDs Development, Process Design Safety (PDS) |
| Tasks    | Detail Engineering Design (DED).                                                 |

# 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.

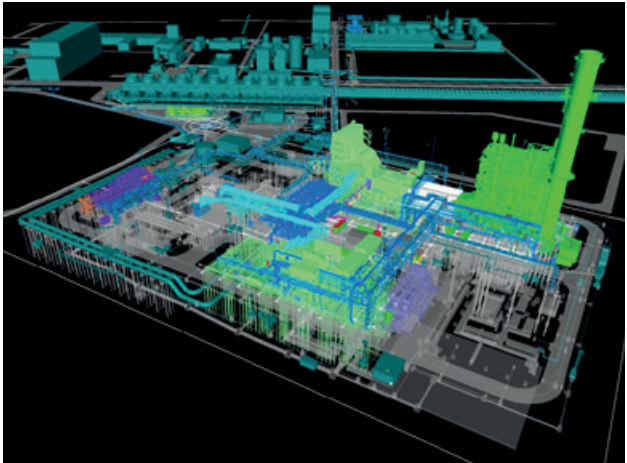


### HV/HV, HV/MV and CP Electrical Substations

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.

## Energy reconversion of a Thermoelectric Power Plant

|            |                                                                                                                                                                                  |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location   | Italy                                                                                                                                                                            |
| Year       | 2021 - 2023                                                                                                                                                                      |
| Service    | Energy reconversion of a Thermoelectric Power Plant                                                                                                                              |
| App. Field | Power - Combined and open cycle thermoelectric power plants                                                                                                                      |
| Tasks      | Multidisciplinary project: design (BIM) for BoP, plant, mechanical, civil, electrical, instrumentation 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.



# LIFE SCIENCE



High-performance engineering solutions to ensure efficiency, regulatory compliance and sustainability across pharmaceutical, biotechnology, cosmetics and food industries.

Seingim stands out in the Life Science sector by combining engineering excellence with a deep commitment to regulatory compliance and operational efficiency. With many years of proven experience, we provide tailored

solutions that integrate energy efficiency, sustainability and digital transformation, ensuring that each project aligns with the highest cGXP standards.

# Our services



## Strategic Consulting & Compliance

Site master planning, compliance risk assessments, GMP and quality reviews, feasibility studies and conceptual design to ensure full regulatory readiness.



## EPCM Services (Engineering, Procurement & Construction Management)

Comprehensive project execution, including basic and detailed design, procurement and contract management, construction oversight and permitting support.



## Commissioning & Qualification (C&Q)

Validation and qualification planning, data integrity assurance, computerized system validation (CSV) and on-site testing to meet strict industry requirements.



## Operational Excellence & Advanced Technologies

Energy assessments, Digital Twin, Virtual Tours / Augmented Reality, technical knowledge management, predictive maintenance.

# Our Project

## Optimization of Venting System for Enhanced Safety and Performance

Seingim conducted a feasibility study to mitigate risks of cross-contamination and pressure surges in the venting system of an API manufacturing site. Through network modeling, we identified bottlenecks, verified the hold-up capacity of the compensation buffer and analyzed multiple optimization strategies. The most effective solution was selected and further developed through detail design, ensuring seamless integration, regulatory compliance and improved system reliability.



|            |                                                   |
|------------|---------------------------------------------------|
| Location   | Italy                                             |
| Year       | 2024 – On going                                   |
| Service    | Assessment, feasibility study, detail design      |
| App. field | Active Pharmaceutical Ingredient (API) Production |
| Manhours   | 4.000                                             |

# BUILDINGS

Building engineering is our core competency, where innovation, functionality and sustainability converge. We deliver integrated solutions for diverse structures, ensuring efficiency, safety and regulatory compliance. Our expertise encompasses comprehensive building design, with a focus on advanced HVAC systems, integrated civil engineering support and Building Information Modeling (BIM) methodologies. This enables us to deliver projects that meet the rigorous standards of LEED and similar sustainable building protocols.

### Workspaces & Commercial Buildings

We design offices, commercial spaces and multifunctional complexes, integrating energy-efficient HVAC, smart technologies and flexible layouts to enhance sustainability, occupant comfort and operational efficiency.

### Healthcare, Residential & Heritage

From hospitals and research facilities to residences and historical sites, we provide tailored engineering solutions that ensure comfort, efficiency and architectural preservation, meeting the highest regulatory standards.

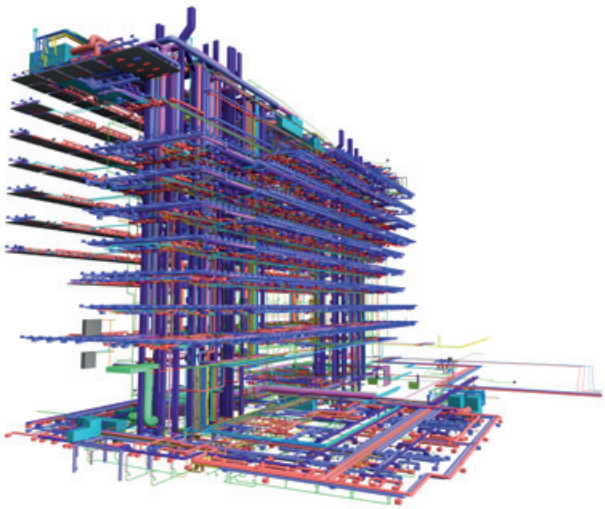
### Sports & Hospitality Facilities

We engineer stadiums, sports complexes, hotels and tourism infrastructure, ensuring structural integrity, accessibility and energy efficiency, while optimizing user experience and long-term sustainability.



## New Headquarters of Human Technopole Foundation

|            |                                                                     |
|------------|---------------------------------------------------------------------|
| Location   | Italy                                                               |
| Year       | 2019 - ongoing                                                      |
| Service    | New Headquarters                                                    |
| App. Field | Buildings - Laboratories                                            |
| Tasks      | FEED, detailed, construction MEP design and construction management |



Development of a full BIM design for the MEP and special systems of the HT Headquarter building, which includes office spaces and specialized laboratories such as animal facilities, BSL3 labs, cryogenics, Cryo-EM, clean/laser rooms, microscopy areas, tissue processing, RNase-free and plasmid rooms, wet lab sequencing & automation and BSL2/BSL3 cell culture labs. The design also covers a research center, management offices and a canteen, aiming for Gold LEED certification.

With our multidisciplinary approach, we are able to meet the specific needs of our clients, providing tailored solutions for every type of building. We are ready to help your project grow with passion and professionalism, combining innovation with tradition.

# ENERGY EFFICIENCY

With a large team of dedicated professionals including engineers, architects and certified technicians, we offer comprehensive and exclusive support solutions, managing each project phase from concept to detailed design with an integrated perspective. Day by day, we develop increasingly innovative solutions to gradually reduce the energy and environmental impact of processes and structures, contributing to the revitalization of the construction sector and improving the energy performance of existing assets.

### Industrial and civil energy audits

We conduct in-depth energy consumption analyses to detect inefficiencies, eliminate waste and propose targeted solutions aimed at reducing energy impact and operational costs.

### Heat recovery solutions

We design and integrate advanced heat recovery systems to optimize energy use in industrial processes, improving overall plant efficiency and reducing energy losses.

### Smart energy management

We implement tailored energy optimization strategies for buildings and industrial infrastructures, leveraging smart energy management solutions to minimize consumption and enhance sustainability.



## Our services

- **Our Services**
- Energy Master plan
  - Energy Management Consulting
  - Feasibility studies
  - Preliminary, definitive and executive designs
  - Project and Program Management
  - Energy Performance Certificate
  - Procurement & Construction support
  - Date Entry & Permitting Management
  - Consulting and Design for NZEB certification
  - SRI (Smart Readiness Indicator) Implementation
  - BPP (Building Renovation Passport)
  - IEQ (Indoor Air Quality)

## Expertise

**Our Expertise**

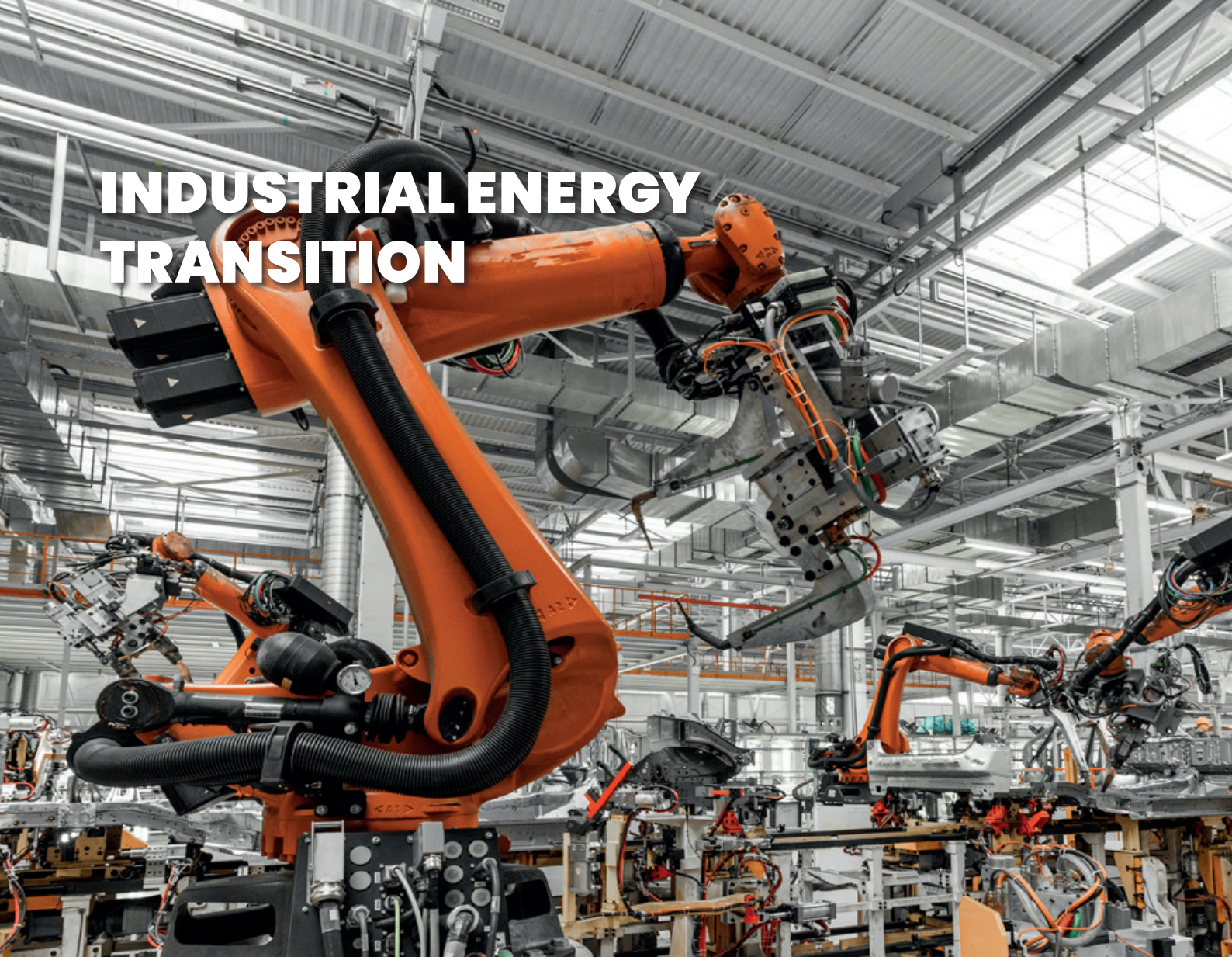
- Energy process analysis
- Energy engineering
- Machinery and packaging, static equipment engineering
- Heat engineering and HVAC engineering
- Instrumentation, automation & control and telecommunications engineering
- Electrical engineering
- HSE engineering
- CFD studies

## Our Project

### Energy requalification and management of 40 municipal buildings in Milan



|          |                                                                                                              |
|----------|--------------------------------------------------------------------------------------------------------------|
| Location | Milan                                                                                                        |
| Year     | 2021 - 2024                                                                                                  |
| Service  | Public concession for energy requalification and management of Metropolitan City of Milan's public buildings |
| Tasks    | FEED and detailed design, Safety Coordinator in the design and execution phase and construction management   |



# INDUSTRIAL ENERGY TRANSITION

The industrial sector is undergoing a profound transformation, where energy management is no longer a simple cost variable but a strategic lever for competitiveness, resilience, and operational continuity.

Addressing energy challenges in a structured way means rethinking processes, plants, and infrastructures through an integrated vision based on measurability, control, and continuous performance improvement.

In this context, Seingim supports industrial companies in developing energy

and digital transformation pathways grounded in data analysis, continuous monitoring of consumption, and objective assessment of energy performance.

This approach enables businesses to build more efficient, robust, and adaptable operating models—capable of evolving over time and generating long-term value.

Energy transition thus becomes not only a response to external targets, but a conscious journey of industrial growth, driven by data and oriented toward continuous performance improvement.



## Our Services

- Energy Management Consulting
- Decarbonization Masterplans
- Facilitated Finance Projects
- Design of Plants and Infrastructure
- Energy Efficiency Solutions
- Renewable Energy
- Smart Energy Management Systems
- ESG Advisory Services
- Project and Program Management
- Energy Services Management
- Energy Performance Certificate (EPC)
- Data Entry & Permitting Management



## Our Expertise

- Smart Monitoring Process Development
- Energy Engineering
- Machinery and Static Equipment Engineering
- Thermal and HVAC Engineering
- Instrumentation, Automation and Control Engineering
- Electrical Engineering
- CFD (Computational Fluid Dynamics) Analysis



# SMART SOLUTIONS

The concept of smart urban development aims to create sustainable, adaptive cities through connected networks. Focusing on human-centric design, it adapts urban and building environments to the dynamic needs of occupants, enhancing quality of life. At the same time, it emphasizes environmental priorities by promoting energy efficiency, renewable energy

adoption, and ambitious CO<sub>2</sub> standards.

The interconnectivity enabled by smart networks supports continuous monitoring and reporting of service usage. This data-driven approach empowers stakeholders to make informed decisions, marking a paradigm shift toward responsive, adaptive, and environmentally conscious cities and buildings.

# Our services



## Our Services

- Energy & Digital Strategy Development
- Proof of Concept (PoC) Development
- Preliminary, Detailed, and Executive Design
- Project and Program Management
- Dynamic and Static Energy Analysis
- Building Information Modeling (BIM)
- Techno-Economic Investment Planning
- Digital Twin & IoT Solutions
- Smart Readiness Indicator (SRI)
- Digital Building Logbooks (DBL)
- Energy Services Management



## Our Expertise

- Smart Monitoring Process Development
- Energy Engineering
- Machinery and Static Equipment Engineering
- Thermal and HVAC Engineering
- Instrumentation, Automation and Control Engineering
- Electrical Engineering
- CFD (Computational Fluid Dynamics) Studies

# Expertise

## Smart Connectivity & Urban Innovation Project

Seingim oversaw the complete development of FTTH fiber optic and WiFi networks, 5G mobile infrastructure and Smart City IoT solutions. The project included access control, surveillance, smart poles, digital signage, charging stations and energy management. System placement was coordinated with landscape architects and masterplan designers, with all services managed from an on-site control room.



|            |                                                                               |
|------------|-------------------------------------------------------------------------------|
| Location   | Italy                                                                         |
| Year       | 2021 – 2022                                                                   |
| Service    | Technical activities for the development of the Smart City and infrastructure |
| App. Field | Smart Solutions                                                               |
| Tasks      | MULTIDISCIPLINARY MEP, special plants basic and FEED design                   |



# RENEWABLE ENERGIES

# Our services



## PV, AGRI PV, WIND and BESS PLANT

- Pre-feasibility studies;
- Technical Due Diligence;
- Optimized grid connection alternatives;
- Connection request (STMG);
- Storage sizing for hybrid plant;
- Final Design for Permitting Purposes;
- Secondary Permitting, including easements and rights-of-way for power lines;
- Permit Matrix and Constructability Matrix;
- Detailed Design (Construction Design);
- Owner's Engineering;
- Detailed Design of Grid Connection Works (STMD);
- Technical support and assessments for EPC tender;
- Land assessment studies:
  - Hydrological and drainage study;
  - Cut and Fill Analysis of the Terrain;
  - Topographic survey;

- Georadar survey;
- Geotechnical study and extraction test;
- Environmental and noise emission study;
- Environmental monitoring construction phase;
- Detailed Design of PV, AgriPV, Wind and BESS plant (for EPC);
- Detail Design for grid connection HV
- and MV (for EPC);
- Management of SUAP Procedures up to Commissioning;
- DL, CSE, CSP, Construction management;
- Management of Site Operations, QHSE, and Construction Logistics;
- Construction site supervision and quality control;
- Commissioning management.



## Our Expertise

- Civil and structural engineering;
- Electrical engineering;
- Instrumentation, automation & control and telecommunications engineering;
- Energy Engineering;
- Hydraulic engineering;
- HSE (firefighting and fire detection, hazardous area classification, toxic gas dispersion, ...)
- Geology;
- Archeology;
- Agronomic and forestry studies;
- Environmental and land engineering;
- Acoustic studies;
- Topography and surveys.

# Expertise

# Our Project

## Design of the Advanced Agrivoltaic Plant

Seingim has developed the FEED for an advanced agrivoltaic plant, a 29.74 MWp facility integrated with a 9 MW BESS, connected to the high-voltage grid (36/36 kV). This project has been engineered with a multidisciplinary approach to ensure energy efficiency, grid stability and environmental sustainability, in full compliance with regulatory standards.



|            |                                                                                                    |
|------------|----------------------------------------------------------------------------------------------------|
| Location   | Italy                                                                                              |
| Year       | 2023 – 2024                                                                                        |
| Service    | FEED                                                                                               |
| App. Field | Advanced Agrivoltaic System                                                                        |
| Tasks      | Grid connection study, energy storage integration, civil, electrical and environmental engineering |

# INFRASTRUCTURE

Seingim firmly believes in the revitalization of infrastructure, which is essential for development and competitiveness at both national and European levels. Thanks to our solid experience in strategic projects—including ports, airports, highways and major public works—we are able to develop solutions that respond to the challenges of a constantly evolving world. Our goal is to deliver infrastructure that is long-lasting, efficient and user-friendly, leveraging innovative technologies to optimize resources and ensure long-term sustainability.



/ Our Services



**Strategic Planning and Design**

We offer comprehensive services in masterplanning, feasibility studies and both technical-economic and detailed design of infrastructure systems. Each project is tailored to optimize resources and guarantee sustainability.



**Project Management and Implementation**

We manage every phase of the project through project management, construction supervision, health and safety coordination (CSP/CSE) and support during procurement and field engineering, ensuring high quality and compliance with timelines.



**Advanced Technical Expertise**

With an integrated approach and proven expertise, we design infrastructure for ports, airports, road and rail networks, data centers, logistics platforms and fiber optic networks, combining advanced technologies and practical solutions to meet future challenges.



**Sustainability and Innovation**

We are committed to designing energy-efficient infrastructure, conducting energy assessments to reduce environmental impact and integrate the latest sustainable technologies, in full compliance with current regulations.

## Energy Masterplan for Marco Polo Airport, Venice

|            |                                                                                                                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Location   | Venice (VE)                                                                                                                                                                                               |
| Year       | 2022 - 2024                                                                                                                                                                                               |
| Service    | 2037 Energy Masterplan – Marco Polo Airport (Venice)                                                                                                                                                      |
| App. Field | Infrastructure / Airports                                                                                                                                                                                 |
| Tasks      | Masterplan: analysis of current energy consumption and airport infrastructure, with projections of future developments by 2037.<br>Research of solutions aimed at achieving full decarbonization by 2030. |



The aim of the project was to define a strategic approach to airport energy systems in view of the expansion of Venice Marco Polo Airport by 2037, with the aim of achieving zero direct carbon emissions (Scope 1) by 2030. The first phase involved an in-depth analysis of current energy consumption and systems to establish baselines and develop predictive models through 2037, in line with the planned infrastructure evolution. In the second phase, zero-emission alternatives to combustion systems were explored, including agrivoltaics, photovoltaics, green hydrogen, geothermal energy and heat recovery using heat pumps.

# TRANSPORT INFRASTRUCTURE



## More than just a provider: a trusted partner.

Seingim supports its clients as a strategic partner, guiding them toward tangible results even in the most complex projects, both nationally and internationally.

As one of the leading players in the Italian engineering sector, Seingim offers specialized support to public and private contracting authorities, consultancy firms, construction

companies and stakeholders in the civil infrastructure sector.

Through highly qualified engineering services, we accompany each client throughout the entire project lifecycle, effectively meeting needs related to validation, management, design and execution.

# Expertise



## Civil Engineering Design

- Design of road and railway bridges: composite steel-concrete decks, truss bridges, arch bridges, integral beam bridges, and orthotropic steel deck structures
- Design of bridges serving plant facilities and aqueduct pipelines
- Erection engineering for large structures and bridge launching operations
- Design of foundation works and temporary works
- Construction Design for Contractors
- Geotechnical Design
- BIM Management
- Shop Drawings and Detailed Fabrication Drawings
- Earthworks analysis (cut and fill volume estimation)
- Photorealistic renderings and visual simulations
- Validation of Detailed and Construction Designs
- Constructability Analysis
- Value Engineering and Structural Optimization
- Cost estimate review and quantity take-off management



## Existing Structures

- Inspection of civil structures, road and water infrastructure (existing bridges, culverts, aqueduct bridges, pipe-bridges)
- Assessment of attention classes and structural safety evaluations
- Transitability and operational analyses
- Development of investigation plans
- and coordination of inspection activities
- Condition assessment and deterioration mapping
- Design of structural upgrading and strengthening interventions
- Definition of structural monitoring plans



## Site Activities

- Consulting services for Contractors and Clients
- PMC (Project Management Consultancy) Services
- Construction accounting and cost control support
- Technical Assistance for Testing and Commissioning
- Site Construction Management
- Verification of Environmental Management Plan implementation
- Environmental monitoring activities
- Acoustic surveys and measurements
- Construction Supervision (Site Supervision / Works Supervision)

# WATER INFRASTRUCTURE



/ Our Services

✓ **Network digitisation.**  
Through non-destructive monitoring methodologies and advanced technologies , provides the best service for digitising underground networks and above-ground installations. The data processed by our experts and BIM Management skills guarantee the level of graphic and informative detail required to meet every need.

✓ **Existing Civil Works.**  
Our engineers are experienced in analysing existing artwork and identifying deterioration and root causes, recommending corrective actions and evaluating alternative rehabilitation methods that meet your specific needs on time and on budget.

/ Our Services

✓ **Multidisciplinary Plant Design.**  
A long history of positive experience in the design of large industrial plants has enabled the successful multidisciplinary design development executive design of water purification and treatment plants.

✓ **Monitoring and Safety Assessment of Civil Structures**  
In a context of growing awareness regarding the structural health of infrastructure assets, our expertise in structural engineering enables us to be your trusted partner in integrating this initial assessment phase and managing the design of rehabilitation interventions.

## New water tank including auxiliary structures

To meet the client requirements, this project aims to modernize the water storage and distribution system, incorporating technical and structural improvements to enhance energy efficiency, ensure water safety, reduce water losses and simplify operations and maintenance.

|            |                                                                                |
|------------|--------------------------------------------------------------------------------|
| Location   | Italy                                                                          |
| Year       | 2021-2023                                                                      |
| Service    | Development of a new water tank including auxiliary structures                 |
| App. Field | Aqueducts and water networks                                                   |
| Tasks      | FEED and detailed structural and MEP design, including construction management |

✓ **Energy efficiency.**  
Pumping and lifting stations can be improved by replacing circulation equipment with inverters and by downsizing distribution networks. Articulated networks with high pressure losses cause pumping systems to operate incorrectly. Structural and management changes can lead to significant energy and economic savings.

✓ **Civil works.**  
Consolidated experience in civil and plant design, specialisation in the design of underground utility routes, accurate identification and management of interferences are distinctive features of our multidisciplinary and integrated approach.

**Environmental permitting is fundamental to sustainable development, offering services to ensure compliance and support responsible industrial practices.**

environmental compensation if necessary. We follow the project from the feasibility check to the drafting of the documentation, interfacing with the competent bodies until the authorisation is issued and the work is carried out. We also undertake Environmental Due Diligence, verifying the application of regulations and estimating the charges for any corrective measures.

In order to guarantee the correct environmental insertion of an intervention, we judge the project by analysing the potential impacts on the biotic and abiotic components that characterise the environmental reference context, defining possible mitigation and compensation works and possible environmental monitoring.

Consistent with current legislation, we prepare preliminary environmental studies aimed at verifying any environmental impacts of the intervention with respect to the reference environmental landscape context.

Analysing possible impacts on Natura 2000 sites in order to ensure the conservation and protection of biodiversity.

Through the SEA procedure, we evaluate plans and programmes for the implementation of interventions.

Through the useful drafting for the activation of this single authorisation measure, we guarantee the customer seven environmental communications and authorisations in a single title.

Through this measure, we guarantee the customer operating authorisation while ensuring a high level of protection for the environment as a whole, providing for measures to avoid/reduce emissions into the air, water and soil and the generation of waste.



## Landscape Report

We ensure the proper landscaping of an intervention also through the design of integration, mitigation and masking works.



## Noise Impact Prediction Documentation (DPIA)

Through proprietary sound level meters we carry out sound climate measurements and with the help of predictive models we analyse and model the acoustic climate of interventions during construction and commissioning.



## Construction Site Plans

We prepare ad hoc PACs aimed at defining best practices to be implemented in construction in order to avoid possible impacts on environmental components and minimise the risk of unforeseen environmental exceedances and/or criticalities that could also lead to a slowdown of the works.



## Site Inspections

We carry out site inspections in order to monitor compliance with environmental regulations during the construction phases.



## Environmental Monitoring Plans

We tailor environmental monitoring plans to track the key environmental indicators to be monitored to ensure environmental compliance.



## Environmental Monitoring

We monitor the various components in the field in order to avoid or detect any criticalities during the ante, in-process and post-operam phases, providing any corrective actions to be implemented in the event of overruns.

## KNOW-HOW

/ Environmental Permitting: fields of application



Infrastructure



Waste and Industry



Industrial plants



Construction: Commercial buildings and accommodation facilities



Energy



Accommodation: tourism and hotels



Territory, Real Estate



Sport facilities

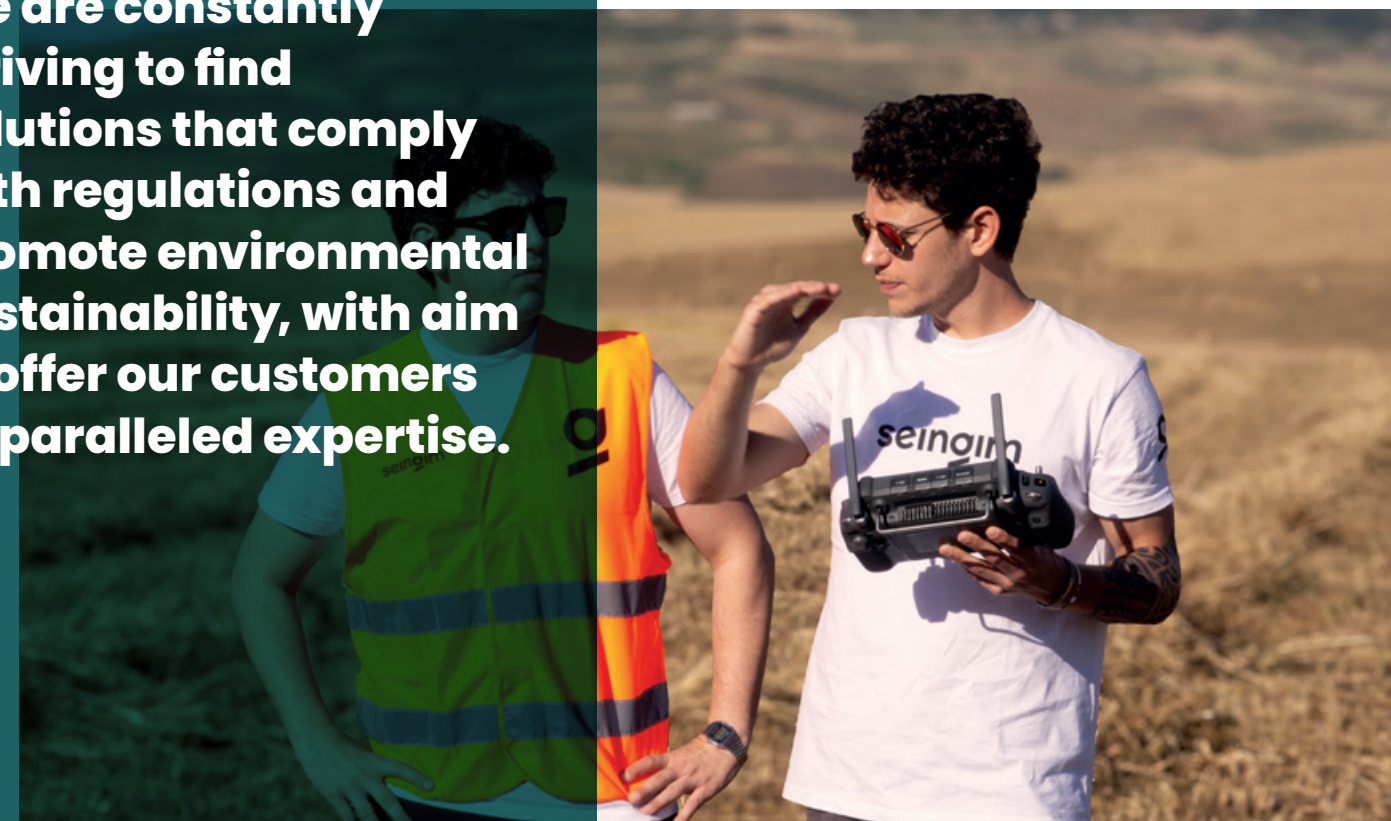


Planning and Programming



Environmental monitoring and site inspections

**We are constantly striving to find solutions that comply with regulations and promote environmental sustainability, with aim of offer our customers unparalleled expertise.**





**Precision, technology and data analysis infrastructure and environmental engineering.**

eingim offers high-precision topographical survey and analysis services, integrating digital modelling , spatial data acquisition and processing for infrastructure design, construction and management. Using LiDAR, laser scanners, multi-spectral imaging and ground penetrating radar (GPR), we perform structural surveys, environmental monitoring and mapping of underground

networks. Integration with BIM and Digital Twin allows accurate digital models and archives to be generated, improving technical control and asset management over time. Thanks to our experience in the civil, industrial and energy sectors, we operate in the analysis of infrastructure networks, territory and existing works, providing reliable data for targeted interventions.



**High Precision Technical and Structural Surveys**

We perform in-depth instrumental analyses of buildings and infrastructure to support the construction, renovation and maintenance phases, ensuring accuracy and reliability of data.



**Underground Investigations and Technical Assessment of Underground Structures**

The use of ground-penetrating radar (GPR), sophisticated sensors and high-resolution imaging makes it possible to detect and analyse energy, water and telecommunications networks, improving infrastructure management and security.



**Topographical Survey and Environmental Monitoring**

Through LiDAR, laser scanning and multispectral imaging, we acquire and analyse spatial data for control of infrastructure and natural areas, for the optimisation of spatial planning processes and risk mitigation.



**Digital Modelling and Data Analysis for Engineering**

We exploit BIM and Digital Twin technologies to create detailed three-dimensional models, enabling advanced monitoring and effective infrastructure management.

**Site survey of 40 residential buildings**

An on-site survey was conducted on 40 residential buildings to assess their existing conditions and identify the most suitable energy efficiency innovations. The survey involved document analysis and on-site inspections using measurement tools, thermal imaging and laser scanning to evaluate the building envelope and HVAC systems. The collected data was processed using CAD and BIM software to create detailed as-built models and determine the initial energy performance rating.



|            |                                                                |
|------------|----------------------------------------------------------------|
| Location   | Italy                                                          |
| Year       | 2021 - 2022                                                    |
| Service    | Site Survey                                                    |
| App. Field | Residential Building                                           |
| Tasks      | Surveyed 40 residential buildings (totaling 655 housing units) |

# MANAGEMENT & CONSULTING

Seingim has an extensive multidisciplinary team of professionals with expertise in Control and Planning, Project Management, Commissioning, Supervising Construction and Safety Coordination. The efficiency of these groups is supported by cross-party professionals to ensure effective, efficient assistance even in the most complex construction sites.

## Project & Construction Oversight

We oversee complex projects with integrated management services, covering PMO, PPM, construction supervision, site safety (CSE) and commissioning. We ensure compliance, performance and on-time delivery at every stage.



## Quality, Engineering & Optimization

We provide Owner Engineering, value engineering and quality assurance to align technical solutions with business goals—improving reliability, reducing costs and ensuring standards.



## Innovation & Capability Development

We drive R&D, manage innovation funding and deliver technical training to boost client competitiveness through knowledge transfer and process improvement.



# Our services



## What we offer

- Project Planning
- Project Control
- Assistance in construction sites
- Job accounting
- Documentation Organization
- Project quality plan
- Operating procedures
- Value Engineering
- Integrated project management
- Risk Management
- Commissioning authority procedures and activities



We deliver high-value consulting services across the entire project lifecycle, from strategic planning and project governance (PMO, PPM) to construction supervision and quality assurance. We drive technical and economic optimization through value engineering, while supporting clients with tailored R&D, training programs and access to innovation funding opportunities.

**The future depends on  
key strategic decisions.**

**Seingim is the trusted  
partner that turns ideas  
into reality.**



**seingim**

**Seingim Sales**

/ Sales Office

[sales@seingim.it](mailto:sales@seingim.it)



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