

1222·2022
800
ANNI



UNIVERSITÀ
DEGLI STUDI
DI PADOVA

Master Degree Programme in Energy engineering

Advisory Board

Presentation of the Stakeholders to the students

8 march 2022

AcegasApsAmga, a company wholly owned by the Hera Group, is the first multi-utility in the Northeast and operates in the environmental, water, gas and electricity distribution sectors in Veneto and Friuli Venezia Giulia. Furthermore, thanks to the activities of the subsidiaries ASE and Hera Luce, it carries out energy efficiency and public lighting projects throughout the Italian territory.

Key Numbers 2020





Foundation year: **1961**

Italian-owned Company

804 employees

Headquarters and production plants in
Bevilacqua (Verona) - Italy

Leading company in Italy and Europe in the
production of units for HVAC applications:

- Fan coils
- Chiller and heat pumps
- Air Handling Units
- Room air conditioners

Presence on the main markets of the world
with **6** Aermec Sales Companies in Europe
and over **70** Distributors worldwide

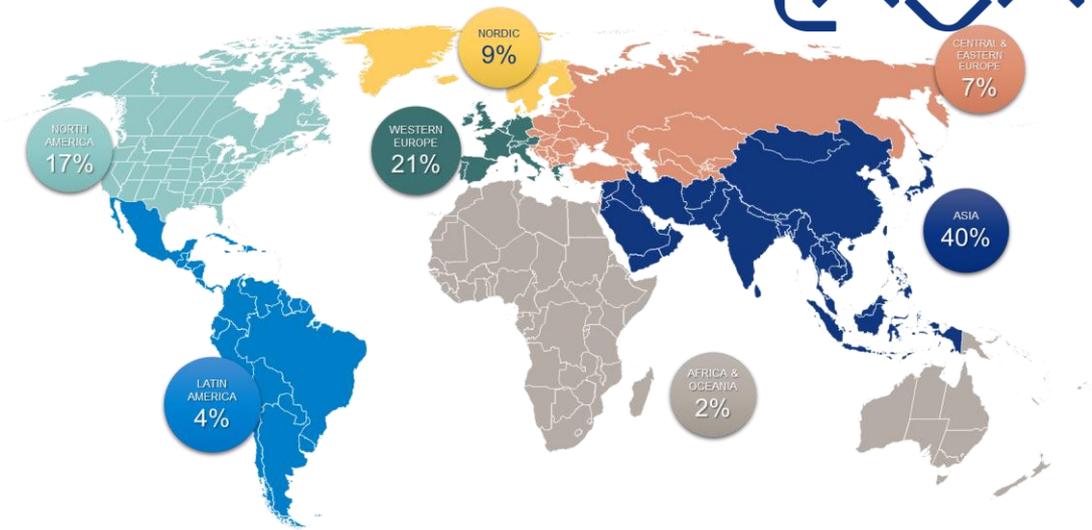
What opportunities in AERMEC for a
young engineer?

- R&D
- Technical sales support
- Marketing
- After sales services

- Production engineering
- Purchasing
- Quality management

**ENERGY
ENGINEERING**





Sustainability Project Manager:

- Leading CO₂ reduction projects in San Bonifacio;
- Expand the projects to all factories (Italy, Sweden, China, USA, France)
- Expand to whole supply chain from supplier to customer
- Expand to product design standards
- **Open recruitment next week !**



YOUR GLOBAL PARTNER FOR RETAIL SOLUTIONS



arneg

ITALIA

Arneg S.p.A. - Headquarters

Country: Italy

Town: Campo San Martino (Padua)

Year of establishment: 1963

Total area: 260.000 m²

Plant area: 80.000 m²

Business area: Refrigerated cabinets,
Refrigeration systems, Service & Energy management

www.arneg.it

MANUFACTURING PLANTS: EUROPE

- COMFORT
- SEASONAL EFFICIENCY
- DECARBONIZATION
- AIR RENEWAL
- DIGITALIZATION
- TOTAL LIFE CYCLE COST




193 M€ 2021
149 M€ 2020
660 EMPLOYEES

MideaGroup
humanizing technology

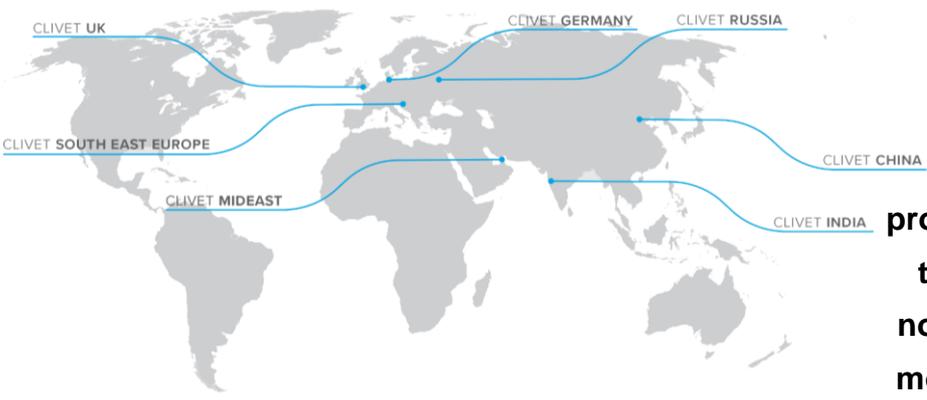
44.1 T\$
TURNOVER 2020
288° RANK 2021
FORTUNE 500

APPLIED
RESIDENTIAL
VRF
SPLIT

R32, R290
R1234ze(E)
R513A



R&D
63 → 129
2022 2025



+66 engineers
project leaders, project eng,
thermal eng, hw/fw eng,
noise, vibration, materials,
molds, safety standards....



- 8 small test rooms, 6 large
- functional, performance
- acoustic
- vibrational and stress tests
- air temperature -20°C / + 60°C
- up to 2.5 MW

Edilvi is a construction company born in 1984. It is a well-established reality in the Treviso area. We are specialized in the construction of **nearly Zero Energy Buildings** and the retrofiting of existing buildings.



Via Roma 164 - 31020 Loc. Castrette TV



info@edilvi.it



0422-9144

Since 2011 we are also a certified CEI UNI 11352:2014 Energy Service Company. Within the **ESCO department**, we deal with different types of improvements in accordance with Italian incentives scheme: Energy Performance Contracts, Conto Termico, Ecobonus, Superbonus 110.

Since 2017 we have been collaborating with local universities in order to bring **R&D** in the market. For instance, during last works it has been developed a tool for remote energy accounting in accordance with EPC contracts.

Our goal is to set up an **energy community** as an opportunity to spread best practices and behaviors. The aim is to reduce building energy cost by **optimizing self-consumption**. In order to achieve our target, we will combine all together the architectural design, the plant design, the building automation system, IoT sensors to get a Smart Home.

Research Area: energy self-consumption (single dwelling level, energy community level), Smart Home, Smart Grid, set up an energy community, blockchain technology for energy communities, Smart Contracts.

We will provide Revit BIM and MEP training.

FRASCOLD

The leading company in refrigeration industry

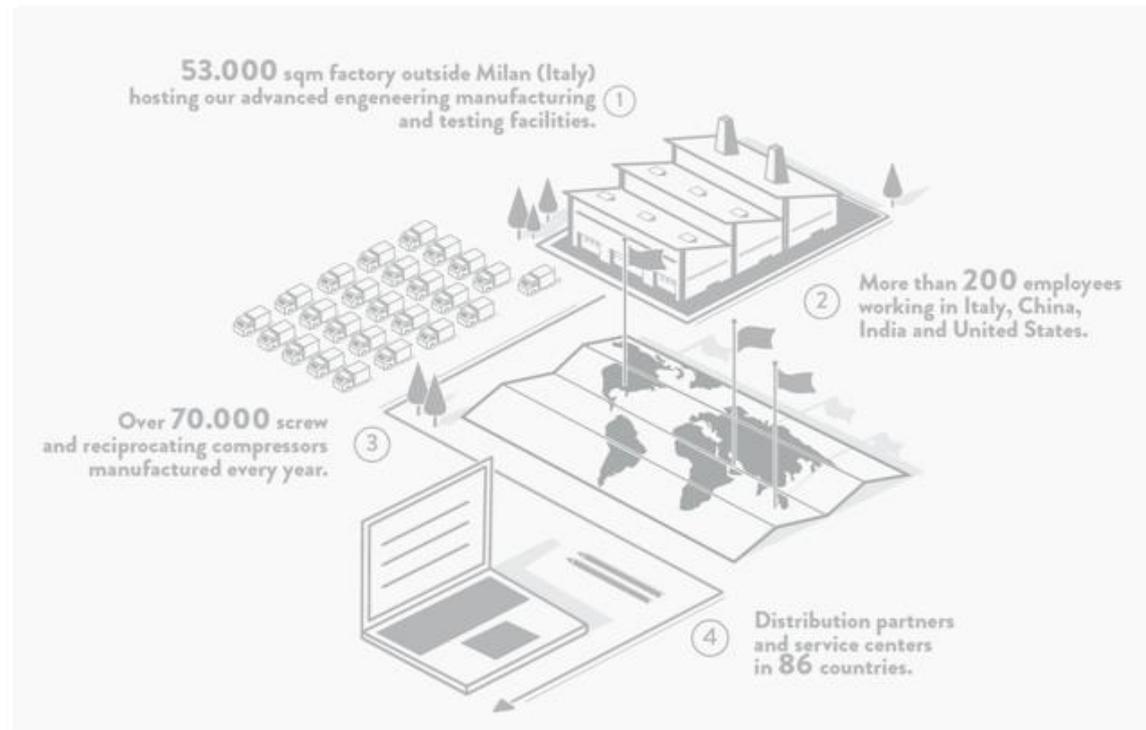
[Our company](#)

ABOUT THE COMPANY

Since its foundation, Frascold has always manufactured refrigeration and air conditioning solutions for a wide range of applications, all over the world.

Based in Milan, the Company has built its global reputation and recognition on an outstanding capacity to improve its products and technologies to satisfy all customer needs.

Having been established throughout Europe for years, the brand now enjoys success all over the world, thanks to its proven excellence in the pursuit of quality and innovation.



SU
ENVIRONMENTAL
STA
CULTURAL
INA
FINANCIAL
BILI
SOCIAL
TY
ENERGY



Geothermal applications and residential heat pumps. Eneren can offer technological efficiency and consulting skills for domestic well-being, promoting the adoption of sustainable energy systems.



Know-how in the dehumidification sector, in particular, production of dehumidifiers designed to be combined with residential radiant systems, VMC and Jonix inside, industrial and swimming pool dehumidifiers.



Engineering company supporting the work of designers. Completes the supply of equipment by other companies with consultancy in the field of design, feasibility studies, project business plans and financial products. Completes the HiRef Business Model.



Flexibility and expertise in commercial refrigeration and comfort air conditioning for the naval and railway sectors. Competence center on CO₂, a natural fluid chosen by HiRef & Co. to develop our sustainable future.

HiRef



Electric switchboards for industrial automation. It designs and supplies LV electrical switchboards, software for industrial PLCs and for the cooling industry and other similar sectors with own-brand products.



Lightweight steelwork in steel, stainless steel and aluminium, customised control panels and containment boxes for Data Centers. Born as a subcontractor, it is developing its own brand, pursuing service and operational independence from HiRef.



Indoor Air Quality and sanitising of ambient air in the comfort, industrial, food and agriculture, liquid waste treatment sectors. Exit: 2021. Listed on the AIM Milan stock exchange.

Worldwide Local Supplier



Zoppas Industries

Heating Element Technologies



59

Years of experience in the business of heating systems and ad hoc solutions for our partners



8000

Employees of the group



11

Countries with production sites

15

Countries with offices



14

Owned production plants



Our Markets

Domestic Appliances



Automotive and Transportation



Commercial Applications



Industrial Sectors



Our Technologies



Water Heaters



Cartridges



Heating Cables



Band Heaters



Stitched Wire



Flexible Heaters



Microtubular



Thick-Film



Tubular

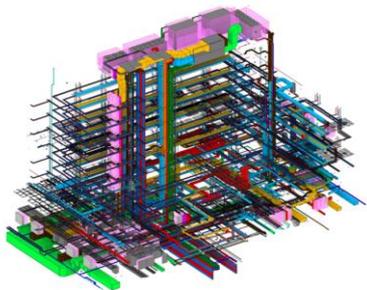
Consulting engineers specialised in the field of Sustainability,
Energy and MEP systems for complex buildings

50y Operational Years

5 Business Offices: Italy (Padua, Verona, Treviso),
KSA (Riyadh, Jeddah).

350 Professionals

33M€ Turnover (1° Specialist MEP consultant)



 **ICMQ** Certificate: 18010BIM



SMART BUILDING SERVICES



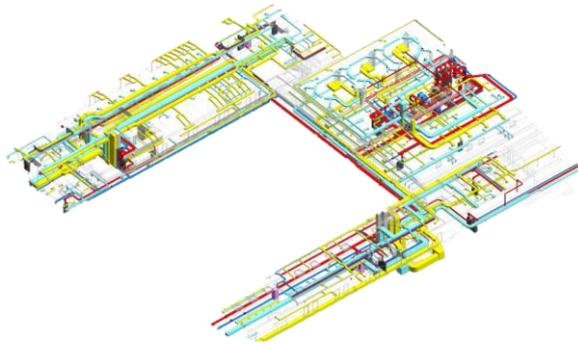
 Environmental Management
System certification
14001:2015

SUSTAINABILITY SERVICES



- Polidoro SPA is a manufacturer of gas burners and components for heating devices, founded in 1945.
- The headquarter are based in Italy. The production is located in Italy, Turkey, China, USA.
- We trade our products all over the world. Our customers are the world leaders in HVAC sector.
 - ✓ Turnover of about 60 mln€/yr
 - ✓ Total production of around 5,5 mln burners/yr
 - ✓ 350 employees of which 25 in the R&D and design dept
- We employ qualified personnel to work with the highest standards in all our departments: Quality Control, Sales, Design and R&D, Logistics, Purchasing, Production Planning, Continuous Improvement, Customer Care.
- We develop, produce and commercialize our products. We follow the market trends and pave our way to the future. Targets: higher efficiency, lower pollutant emissions, decarbonization, introduction of new technologies.
- We invest constantly in Research and Development:
 - High level laboratories: 5 test rooms up to 70 kW, 2 test rooms up to 300 kW, hemi-anechoic room
 - Collaboration with Universities and Research Institutes
 - Fluid dynamics, combustion and structural simulations performed in Polidoro R&D
- We currently employ several energy engineers, mainly in the R&D department
- We look for these skills:
 - Strong theoretical and technical knowledge
 - Interest in laboratory activity and data analysis
 - Knowledge of engineering softwares (CAD, FEM and CFD)
 - Good knowledge of English language
 - Openness in learning and team working

Prisma Engineering is able to fully develop a multidisciplinary project from start to finish



Tailored design approach

BIM Modeling

Project and construction management

Who we are

SAET SpA is an Italian company active on an **international scale** that offers solutions for **high voltage electrical grid, electrochemical storage systems** and custom solutions (**Operation & Maintenance**, after sales service, automation, weighing systems). SAET has always operated with technological diversification and a strong commitment to **innovation**, thanks also to the prestigious collaboration with the University of Padua. The world around us is constantly changing and SAET has always evolved. A story marked by key moments. SAET proposes itself as **EPC** (Engineering, Procurement, Construction) also in the field of **renewable energy**.

- **Foundation:** 1956
- **Headquarter:** Padua
- **Staff:** 55 employees
- **Turnover:** 20-30M€



SAET SpA

Via Alberto Moravia, 8
35030 Selvazzano Dentro, PADUA (IT)



What we do

GRID SOLUTIONS



HV stations designed to connect production plants from renewable and traditional sources to the National Grid, construction of renewable plants and other activities relating to the construction of grid-connected plants and portions of the grid itself.

ENERGY STORAGE



The construction of electrochemical storage systems, stand alone or associated with other plants (renewable, industrial, etc.)

CUSTOM SOLUTIONS



O&M services for the management and maintenance of plants, automation and special industrial systems or exploratory systems for Saet

sinergo

is a leading engineering and design company established in 2008

Main activities in the energy field involves:

- **Energy management** and strategic energy market consultancies
- **Energy efficiency** works feasibility studies and design:
 - Cogeneration
 - Trigeneration
 - Energy Recovery
- **RES power plants** feasibility, authorization, design and construction works site management:
 - Photovoltaic power plants
 - Wind Farms
 - Hydroelectric power plants
 - Biogas and biomass power plants
 - Concentred Solar Power plants
 - Biomethane upgrading plants
- **District Heating** plants and lines



About STE Energy



STE Energy is an Italian company operating worldwide in **renewable energy** and **electricity infrastructure** sectors.

With over **25 years** of experience and more than **450 projects** carried out in **30 countries** around the world, STE Energy is today an internationally recognized player, able to manage complex projects through its multidisciplinary engineering knowledge and excellent project management skills.

STE Energy is a dynamic company whose development strategy is based on **technological and geographical diversification** and on a strong commitment to **innovation**.

The company relies on highly skilled professionals dedicated to the new challenges of the reference market with core competencies in **hydropower**, **high voltage systems**, **solar** and **energy storage**.

STE Energy plays an important role in the **energy transition**, working for the development and management of an electricity system entirely powered by renewable sources, for a more sustainable, modern and future-oriented world for the sake of our children.

+25

years of
international presence

+450

projects
carried out

+2

GW installed
capacity worldwide

+60

O&M
active projects

+30

countries
around the world

www.ste-energy.com

info@ste-energy.com

ABOUT US



LATOOR

Long-term owner

- 73% of value comes from holdings owned >20 years

Holdings

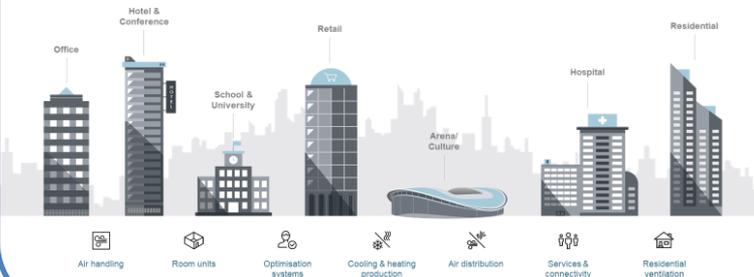
- Strong own products and brands
- Wide geographical spread
- Technologically advanced

Wholly owned operations

- Turnover 1,5 billion €
- More than 5,880 employees across the globe

Wherever people spend their time

A full range of applications and products



Swegon

Why it matters

Time spent indoors

87%

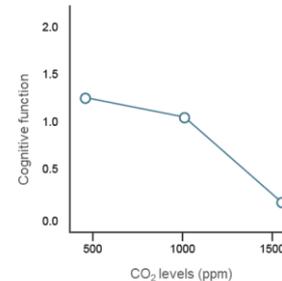
Employees satisfied with their work environment are:

16% more productive

18% more likely to stay

30% more attracted to their company over competitors

Strategic thinking

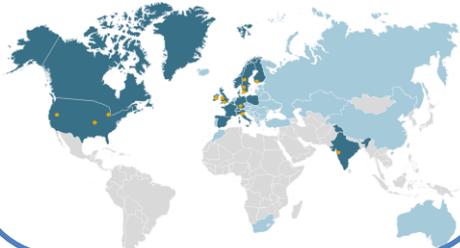
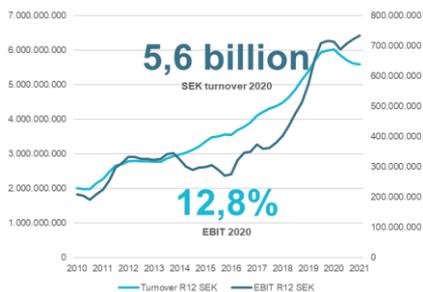


Swegon

2,600

Employees across the globe

High growth rate, high profitability



Italy (Cantarana di Cona)

Heat pumps (60%)



Energy



IEQ



Environment



Cloud



We're looking for competencies in:

Energy (building/units)

Thermodynamics (units)

Software (electronic controls/cloud/AI)

More than 40 years of a viable sustainability



SINCE 1980

Turboden is an Italian firm and a global leader in the design, manufacture, and maintenance of **Organic Rankine Cycle (ORC) systems**, highly suitable for distributed generation, which produce electric and thermal power exploiting multiple sources.

Thanks to its long experience in the energy efficiency sector, today Turboden expands its solutions offering with **gas expanders** and **large heat pumps**.

ARE YOU AN ENERGY ENGINEER? JOIN US!

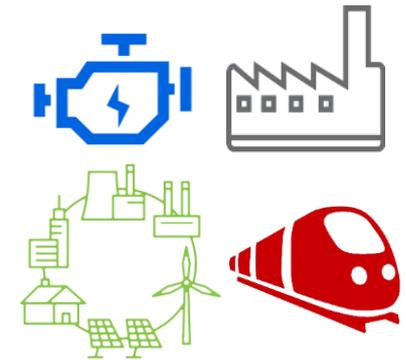
- Thermal/Proposal Engineer (Sales Department)
- Process Engineer (Engineering Department)
- Service & Remote Control Engineer (Service Department)





e · boost - Advanced management tool for complex energy PROSUMER systems... and more

- Based on field measures, IoT and AI
- Optimization of the operation
- Malfunctions detection and Predictive maintenance



SIRIO TEG - ThermoElectric Generators and Heat

