

*SIAD Macchine Impianti
and the Engineering Companies*

Engineering

Industrial Gases



LPG and Natural Gas

Healthcare

We design
and deliver efficiency

The SIAD Group

SIAD is an international chemical group active for almost 100 years in the businesses of **Industrial Gases, Engineering, Healthcare, LPG and Natural Gas**; in addition, it offers energy solutions and environmental management services.

Business diversification is complemented by geographical diversification, with a worldwide presence.

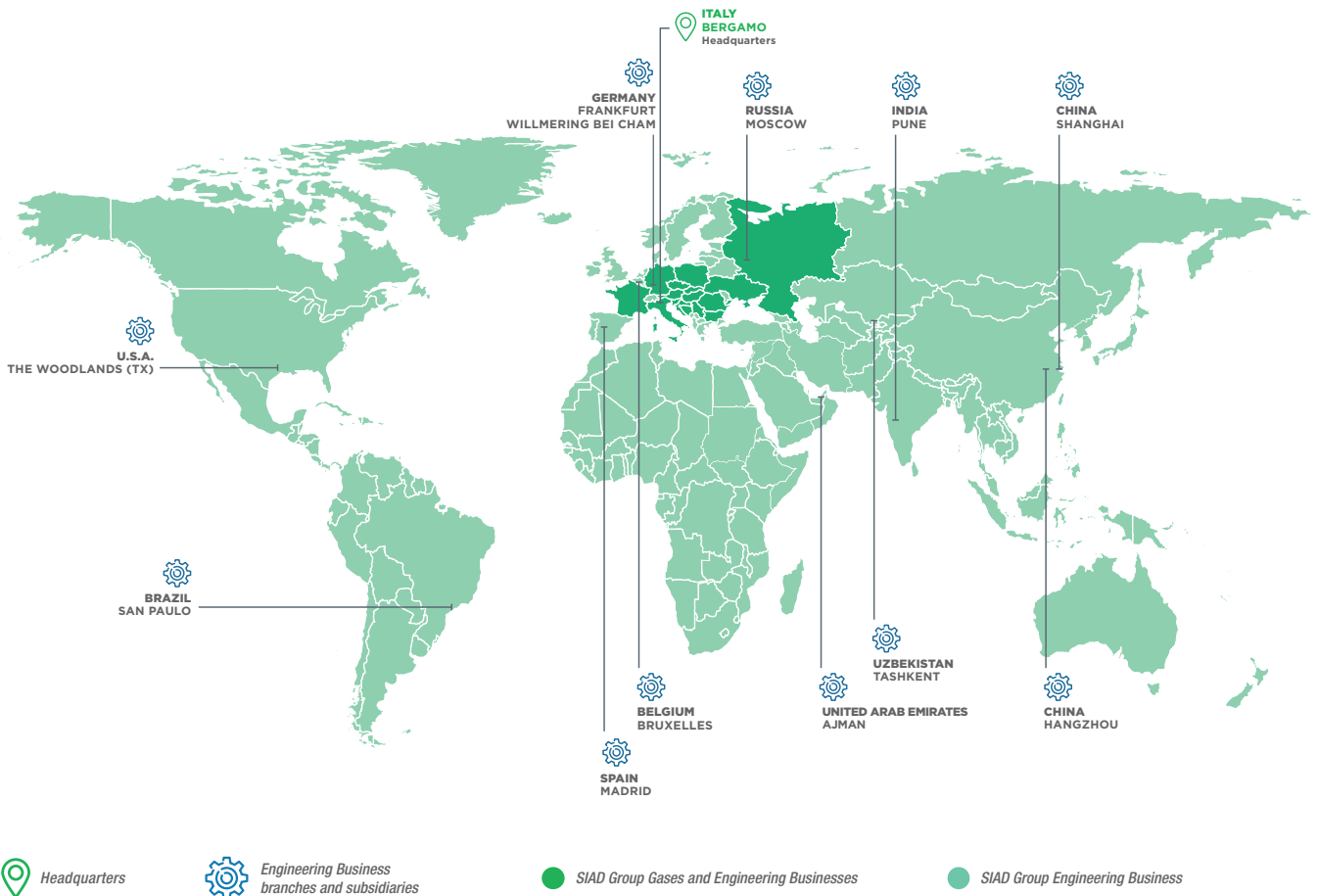
Sustainability, both economic and social, as well as environmental, is part of the SIAD Group's values.

Balanced and steady growth in terms of turnover and market diversification.

Always maximum attention to people and safety.

The link with cultural and scientific institutions in the different territories endorses the importance of creating value for society in the spheres in which we operate.

For the SIAD Group, being sustainable means being authentic with its values.



SOLIDITY, INNOVATION, AUTHENTICITY AND DIFFERENCE


Research, Technology and Innovation


Experience, Tradition and Strength


Commitment to Quality, Safety and Environment


Geographical and Sector Diversification


Reliability, Professionalism and Expertise


Attention to Social and Cultural Issues

The SIAD Group Engineering Companies

The Engineering companies of the SIAD Group design and manufacture air separation units (ASUs), LNG, CO₂, Biogas and Bio-LNG plants, process compressors and combustion systems and, like SIAD S.p.A., they have their headquarters in Italy, but, thanks to their subsidiaries, local offices, agencies and service centers, they have a global reach and covers all areas of the world.

These Engineering companies in the SIAD Group are:

- ✓ **SIAD Macchine Impianti** (SIAD MI)
- ✓ **ESA**
- ✓ **Tecno Project Industriale** (TPI).



SIAD Macchine Impianti

SIAD Macchine Impianti S.p.A. and its international branches and offices specialize in air separation units, LNG plants and compressors.

In particular:

- *SIAD Americas LLC*, a sales and service company, supports the Americas from its office in the United States.
- *SIAD Engineering (Hangzhou) Co., Ltd.* a design and construction company, and *SIAD Engineering Trading (Shanghai) Co., Ltd.*, an international and domestic sales and service company supplying spare parts, support Asia from their offices in China.
- *SIAD Macchine Impianti Middle East FZC*, a sales, service and spare parts company, supports the Middle East from its office in the United Arab Emirates.
- *Russian Branch of SIAD Macchine Impianti S.p.A.* Moscow office, supports Russia and the CIS countries.
- *Representative Office of SIAD Macchine Impianti S.p.A. in the Republic of Uzbekistan* promotes all the ranges of products of the Engineering companies of the SIAD Group.
- *SIAD Macchine Impianti Sucursal de España*, a local office, looks after the interests of SIAD MI in Spain and Portugal.
- *SIAD Macchine Impianti S.p.A. Niederlassung Deutschland* supports service activities in Germany plus Central and Northern Europe from its German office.

ESA S.p.A. and its branches develop and manufacture industrial combustion systems:

- *Belgian Branch of ESA S.p.A.* in Belgium, markets ESA products in in Benelux, France, Spain, Portugal, and Northern European countries.
- *German Branch of ESA S.p.A.* in Germany, markets ESA products in the DACH area.
- *ESA Manufacturing Pvt. Ltd.* in India, a manufacturing and sales company, supports ESA's business in India and South East Asia.
- *Representative Office of ESA in People's Republic of China* promotes all the ranges of products of ESA.

Tecno Project Industriale S.r.l. and its subsidiary provide solutions for CO₂, Biogas, Bio-LNG and gas analysis:

- *Tecno Project Industrial Ltda* in Brazil, a construction, sales and service company for CO₂, Biogas, and Bio-LNG plants, supports Brazil and the South American countries.

All the international branches and offices follow a single philosophy:

**ONE BRAND, SAME QUALITY,
MULTIPLE LOCATIONS**

Reciprocating Compressors for process gases and air and Instrument Air Packages

Compressors Division

Reciprocating compressors for Mission Critical Services

Low- to high-speed oil-free product solutions

Thousands of compressors in operation throughout the world

SIAD MI compressors are designed and manufactured according to the “lean” methodology, which combines a modular design with the integration of digital systems, minimizing waste and maximizing performance. This is supported by the Remote Assistance and Remote Monitoring Services, **remote services of continuous assistance plus the maintenance** of compressors by SIAD MI technicians.

Safety, reliability, efficiency, availability, maintainability and connectivity: these are the most important features incorporated with SIAD MI’s reciprocating compressors for process gas and air, thanks to a robust, long and well-documented process that is the result of decades of detailed experience and significant engineering achievements.



BOG compressors - Courtesy of DIG (Depositi Italiani GNL - Italian Coastal LNG Deposits), Ravenna, Italy

RANGE OF RECIPROCATING COMPRESSORS FOR PROCESS GASES AND AIR (also according to API618 and ISO 13631 standards)

Compression stages	1/2/3/4/5/6
Maximum suction volume	90,000 m ³ /h
Maximum power	8,700 kW
Maximum delivery pressure	550 bar
Cylinder configuration	vertical, V, W, horizontal
Shaft speed	from 300 to 1,500 rpm

INSTRUMENT AIR PACKAGES

Maximum power*	2,400 kW
Maximum delivery pressure	80 bar oil-free
Maximum suction volume	6,000 Nm ³ /h

* The data refers to package units with a single compressor.
Additional flow rates are available for two or more compressors in parallel.

Oil-free Reciprocating Compressors for blow molding r-PET and PLA bottles



Compressors Division

VITO Next: the “next” generation is green and smart

More than 2,700 installations operating on blow molding lines, in more than 150 countries worldwide



GREATER EFFICIENCY
The lowest specific consumption with additional saving options



ENHANCED SUSTAINABILITY
Compactness (small footprint) Low CO₂ emissions



DIGITAL CONNECTIVITY
with SIADMI4U remote monitoring and diagnostic platform



ENHANCED RELIABILITY
Minimum vibrations



SAFETY
Total operator protection



EXTENDED LIFETIME
Longer lasting components



CONTINUOUS PRODUCTION (AVAILABILITY)
8,000 h of continuous operation



OPTIONS AVAILABLE
Energy audits
No-vibration package
Filter silencer unit

After the success of VITO[®], the first compressor specifically designed for r-PET and PLA business, the “Next” generation is a **high performing, reliable** compressor built to be **sustainable and connected**, at every level.

VITO Next is an enhanced product also in terms of **longer lasting components**, **reduced maintenance costs** and greater adaptability in harsher ambient conditions.

OIL-FREE RECIPROCATING COMPRESSORS*	HIGH PRESSURE	LOW PRESSURE
Compression stages	3	2
Maximum suction volume	6,000 m ³ /h	2,100 m ³ /h
Maximum power	900 kW	220 kW
Maximum delivery pressure	42 bar (a)	16 bar (a)
Cylinder configuration	Vertical, V, W, Horizontal	Vertical

* Completely oil-free (“class 0” ISO 8573) dry air supply.

Air Separation Units

Air Separation Units and the LNG Plant Division

SIAD Macchine Impianti supplies Air Separation Units to the highest quality standards for the liquid or gaseous production of industrial gases using the cryogenic process with tray or packing technology.

SIAD Macchine Impianti has developed its own design for selecting and sizing the most flexible equipment and technical solutions. Our strong point is our ability to coordinate our client's requirements with the company's long-standing experience, thus enabling us to provide tailor-made designs based on constant follow-up of project development. This is also made possible by our versatile, expert design team and our network of selected collaborators worldwide.

Complete compliance with local and or international standards.

Tailor-made solutions to meet all production requirements.

Guaranteed continuous supply of Oxygen, Nitrogen and Argon of the highest purity.

Technical characteristics

Air Separation Units (ASU) with cryogenic technology for producing industrial gases in liquid and gaseous forms.

Services

- Engineering, feasibility studies
- supervised commissioning
- erection, start up and performance test
- remote control.

Engineering and production sites

SIAD MI has 3 engineering centers located in Italy, in China and the United States, alongside the production centers in Italy and China.

ASU FOR OXYGEN, NITROGEN AND ARGON

Production and flow rates	- Oxygen from 500 Nm ³ /h to 110,000 Nm ³ /h (17 - 3,800 MTPD) and above* - Nitrogen from 1,500 Nm ³ /h to 330,000 Nm ³ /h (45 - 9,900 MTPD) and above* - Argon recovery 92% (if Argon production is required by Client)
Purity	- Oxygen 99.95% and beyond - Nitrogen < 1 ppm O ₂ - Argon < 1 ppm O ₂

NITROGEN GENERATION UNITS

Production and flow rates	- Nitrogen from 350 Nm ³ /h to 150,000 Nm ³ /h (10.5 - 4,500 MTPD) and above*
Purity	- up to < 1 ppm O ₂ in Nitrogen

Nm³/h = @ 0°C and 1.013 bar(a) - * Cold Box dimension shall be evaluated to confirm feasibility



Air separation method

Plant perform cryogenic air separation, through low temperature distillation. Characteristics of this method:

- high purity products
- high recovery ratio
- low power consumption
- multi-duty operation
- production of products in gaseous and liquid forms
- simultaneous production of more than one product.



Courtesy of Oxy, Croatia

FOCUS ON

SIAD Macchine Impianti chooses Porto Marghera, Venice (Italy) as the location for its new plant with fabrication capacity for large scale Air Separation Units (up to 3,000 - 4,000 MTPD) and Small Scale LNG plants.

This new site will enhance several key attributes:

- Can serve global customers across full range of air separation and Small Scale LNG units
- Adriatic sea location has direct ship/barge loading, allowing quick access to the EMEA and Americas markets
- Elimination of road transport to reduce logistics costs
- Expanded capability to support customers, including modularization requirements.

MERCHANT PLANTS

We have created dedicated lines of standard products to answer to the flexibility and efficiency needs of gas companies. Customized solutions are also available on the bases of clients requirements.

STANDARD PLANTS FOR THE PRODUCTION OF OXYGEN AND NITROGEN											
Model		SL 30		SL 50		SL 90		SL 130		SL 190	
Running mode**	Unit	LOX	LIN	LOX	LIN	LOX	LIN	LOX	LIN	LOX	LIN
DESIGN mode	Nm ³ /h	330	600	600	1,000	1,015	1,600	1,563	2,315	2,510	3,015
	MTPD	11.0	18.0	21.0	30.0	35.0	48.0	54.0	69.0	86.0	90.0
MAX LIN mode	Nm ³ /h	285	685	390	1,245	940	1,685	1,400	2,510	1,550	4,130
	MTPD	10.0	20.5	13.0	37.0	32.0	50.5	48.0	75.0	53.0	124.0

Nm³/h = @ 0°C and 1.013 bar(a) - ** Additional modes are also available

STANDARD PLANTS FOR THE PRODUCTION OF OXYGEN, NITROGEN AND ARGON													
Model		SL+A 100						SL+A 180					
Running mode***	unit	LOX	LIN	LAR	Tot. Liq.	GAN	GOX	LOX	LIN	LAR	Tot. Liq.	GAN	GOX
MAX LOX mode	Nm ³ /h	2,725	100	95	2,920	5,400	-	4,620	150	168	4,938	10,500	-
	MTPD	93.4	3.0	4.1	100.4	161.9	-	158.3	4.5	7.2	170.0	314.8	-
MAX LIN mode	Nm ³ /h	100	3,430	45	3,575	-	1,800	150	5,520	95	5,765	-	3,500
	MTPD	3.4	102.8	1.9	108.2	-	61.7	5.1	165.5	4.1	174.7	-	119.9

Nm³/h = @ 0°C and 1.013 bar(a) - *** Intermediate modes are also available

Notes

- Productions and Electric Energy consumption are referred to standard conditions: P=1.013 bar(a), T=+22 °C, R.H. = 50%
- Purity: LOX ≥99.6%, LIN O₂ ≤2 ppm, LAR O₂ ≤2.0 ppm & N₂ ≤2.0 ppm
- GAN is suitable for external future nitrogen liquefier as expansion unit and/or pipeline; GOX is suitable for external use in pipeline as upgrade
- Storage: LOX 0.05 bar(g) @ -182.6°C; LIN 1 bar(g) @ -189.5°C; LAR 0.3 bar(g) @ -183.4°C

Small Scale LNG plant

Air Separation Units and LNG Plant Division

With a range from 2 to 600 MTPD, SIAD Macchine Impianti Small Scale LNG solutions, the “SMART LNG” series, combine modularity, efficiency and sustainability.

Engineering expertise and cryogenic technology ensure low power consumption, standard or customised installations, and simplified and safe operation.



Courtesy of Bioplus LNG GmbH, Germany

The systems of the SMART LNG range, suitable for the liquefaction of natural gas, have also been successfully installed in coastal LNG deposits to manage the service of **re-liquefaction** of evaporated natural gas, the so-called **BOG** (Boil-Off Gas).

RANGE OF “SMART LNG” PLANT	LNG PRODUCTION		
	Nm ³ /h	MTPD	kg/h
SMART LIN-LNG Plant involving the use of liquid nitrogen (LIN) as the cooling factor	50 - 280	1 - 5	40 - 208
SMART DCE-LNG Technology of direct compression, cooling, expansion and liquefaction of the methane	280 - 840	5 - 15	208 - 623
SMART TB-LNG Nitrogen recycling plant with expansion turbine and booster	840 - 33,600	15 - 600	623 - 25,000

Nm³/h = @ 0°C and 1.013 bar(a)

With its LNG plants, SIAD MI is contributing to the achievement of the objectives in the 2030 European agenda relating to the decarbonization of sea transport and heavy land transport

Biomethane Treatment and Liquefaction (Bio-LNG) Plant

Pure LNG 

Tecno Project Industriale

Included in the Biomethane supply chain, thanks to the skills of several SIAD Group companies, Tecno Project Industriale (TPI), with the support of SIAD MI technology, offers an innovative range for the liquefaction of Biomethane: namely the **Pure LNG line**.



Pure LNG-DCE
Biomethane liquefaction plant

Pure LNG units: safe and efficient small and medium sized plant solution for the liquefaction of Biomethane (Bio-LNG)

RANGE OF "PURE LNG" PLANT	BIO-LNG PRODUCTION		
	Nm ³ /h	MTPD	kg/h
Pure LNG-LIN Plant involving the use of liquid nitrogen (LIN) as the cooling factor	50 - 280	1 - 5	40 - 208
Pure LNG-DCE Direct compression, cooling, expansion and liquefaction Biomethane	280 - 840	5 - 15	208 - 623
Pure LNG-TB Nitrogen recycling plant with expansion turbine and booster	840 - 1,400	15 - 25	623 - 1,040


Nm³/h = @ 0°C and 1.013 bar(a)







Pure LNG-LIN
Biomethane liquefaction plant

Global technical support services

Global Service Division



#SIADisEverywhere

			
SERVICE CENTRES WITH VALVE OVERHAUL SERVICE AND SPARE PARTS HUB	CERTIFIED SERVICE CENTRES	SPECIALIZED AND CERTIFIED ENGINEERS	SIAD MI 24/7 GLOBAL ASSISTANCE

Keeping the compressor or plant perfectly efficient results in lower operating costs over their entire service life.

Which is why, right from the design phase of its products, SIAD Macchine Impianti focuses on three factors:

- ✓ extending the MTBM (Mean Time Between Maintenance) to the maximum
- ✓ minimizing plant downtimes
- ✓ ensuring that compressors and plant work in a reliable and economical way for decades.

Nowadays knowing end-users' needs and keeping with our clients an ever closer relationship, are becoming key factors. For this reason we are offering a full range of integrated service solutions, including digital services (such as **remote assistance, remote testing, remote monitoring and diagnostic services**), an international network of technicians (directly trained and managed by HQ), total care contracts and a **24/7** proactive helpdesk.



A FULL RANGE OF INTEGRATED SERVICE SOLUTIONS

ON SITE AND REMOTE SERVICES	Commissioning and Start-up
	Maintenance and Supervision
	IDEA: remote assistance service
OEM GENUINE SPARE PARTS: OUR STRENGTH AND PROVEN REPUTATION	Extraordinary repairs in the event of an emergency or faults
	Over 15,000 Spare Parts Items in Stock
	Specific oil for SIAD MI compressors
	Possibility to order spare parts directly online with CONNECT platform
ON-GOING ENGINEERING	Latest generation Spare Parts for the lowest lifecycle cost
	Compressor Refurbish, Re-rate, Upgrade and Revamping. Complete overhaul of the compressor "As NEW"
SIADMI4U	Energy saving diagnosis and implementation of specific solutions
	Remote monitoring and diagnostics system
TOTAL CARE CONTRACTS (tailor-made)	Including on site and remotely plus ongoing engineering services in addition to mechanical analysis and predictive maintenance activities
GLOBAL ASSISTANCE 24/7	24/7 Proactive Help desk from any place in the world at anytime CALL +39 02 91947767
TRAINING COURSES	In our Training Center, or at the End Users' site and online (webinars)
	We supply customized documentation
	Professional trainers

SIADMI4U Connective compression, anywhere

SIADMI4U is a remote monitoring and diagnostic system that enables you to view, analyse and manage in real time, through a smartphone, a tablet or a PC, the operating parameters of a compressor or a plant. Besides the real time visualization of parameters, it enables you to view the data history via graphs and tables. It is able to process customized periodic reports and to inform users of any anomalies or notifications, allowing them to intervene promptly on the machine.



**Digitalization, know-how
and complete assistance:
here are our pillars**

It offers many advantages

- ✓ Optimization in the planning of maintenance interventions
- ✓ Reduction of downtimes, plant management and maintenance costs
- ✓ Less kilometres travelled to benefit the environment (it's **ECO-FRIENDLY**)
- ✓ Direct connection between the site and the team of specialists at SIAD MI.

It is smart and user-friendly

- ✓ Custom dashboards can be created quickly and easily
- ✓ Real time notifications via the APP allow the user to be promptly informed in case of unforeseen events
- ✓ Data can be stored in the Cloud and exported in any format.

Complete solutions for industrial combustion

ESA

ESA S.p.A. designs and manufactures innovative combustion solutions using traditional fuels or hydrogen, oxygen and carbon free fuels. Established in 1977 in Italy, the company operates with commercial branches in Belgium, Germany, China; with a manufacturing unit in India and with a worldwide network of dealers.



Thanks to establishing the largest European Research Center for combustion technology, ESA is committed to deliver combustion products, technologies and solutions which are sustainable, effective and efficient for a wide number of industries.

40 different families of industrial burners

- ✓ Standard and customized models up to 32 MW, in low and ultra low NOx versions
- ✓ For every fuel and oxidizer
- ✓ Recuperative and self-recuperative also for radiant tubes and with flat flame.
- ✓ Regenerative and self-regenerative burners.
- ✓ High velocity burners, diffusive or flat flame burners, premixed linear, infrared, and for radiant tubes burners.

Certified electronic equipment

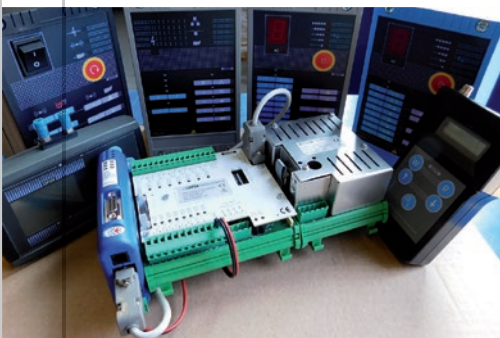
- ✓ EN298 certified electronic controls
- ✓ Ignition and detection systems with permanent control (ISO13577)
- ✓ Communication boards and serial protocols, pulse firing cards
- ✓ 3-position and/or modulating servomotors, pressure transmitters, UV lamps.

Certified instruments and accessories

- ✓ EN88 certified zero governors and air/gas regulators
- ✓ Venturi and T proportional mixers
- ✓ Valves, solenoid valves, accessories for gas lines and burners
- ✓ Calibrated flanges.

Engineering and automation

- ✓ Supply lines on skids up to DN300 in accordance with PED, EN746, ATEX, ASME
- ✓ Software up to level SIL3
- ✓ Control panels, instrumentation and other hardware components.



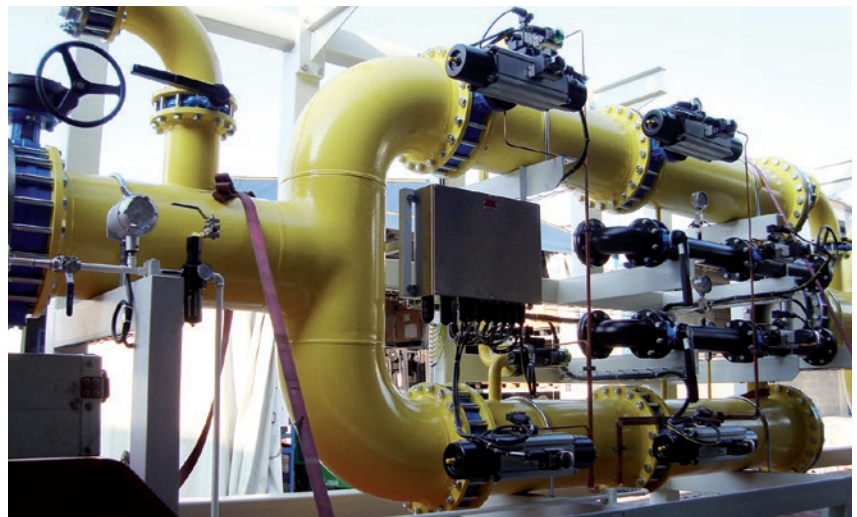
Technologies

- ✓ Test center with 7 test ovens up to 4MW, atmospheric analyzers, CFD software “fluent®”
- ✓ Control and data acquisition system
- ✓ Atex supply facilities for Hydrogen; Oxygen tank with evaporator. Liquid (Bio) fuels tanks of any type, radiant tubes
- ✓ R&D on “Mild” combustion, SCR/SCNR, heat recovery & regeneration, pulse firing.



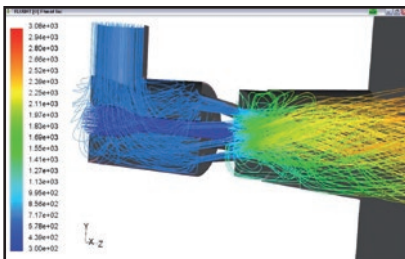
Sectors served

ESA products and technologies are used in ferrous and non-ferrous metallurgy (aluminum, copper and lead), ceramics and bricks, glass, hot dip galvanizing, bakery, heat treatments and forging, incineration and post-combustion, petrochemical and chemical, limestone and mining...



Services

- ✓ H&S/compliance refresher courses
- ✓ Technical assistance, repairs, maintenance, commissioning
- ✓ Complete documentation
- ✓ Full warranty.



CO₂ and Biomethane plants

Tecno Project Industriale

With over 800 supplies already operational worldwide **Tecno Project Industriale (TPI)** is the company within the SIAD Group specialized in CO₂ capture, liquefaction and production plants; in Biogas upgrading solutions plus Biomethane liquefaction Systems and in gas analysis systems. The company has a branch in Brazil, **Tecno Project Industrial Ltda.**



Fields of application:

- ✓ Industrial gases
- ✓ Waste and Biogas processes
- ✓ Carbon capture systems
- ✓ Petrochemical / chemical sectors
- ✓ Food industries, breweries and dry ice production companies.

More than 30 years of CO₂ advanced technology

Since its founding in 1987, Tecno Project Industriale (TPI) has established itself as an **innovative company** with a strong focus on operational excellence, safety, and environmental responsibility.

TPI is specialized in the design, construction and installation of plants for production, capture and liquefaction of CO₂: by treating the raw gas and obtaining a very pure food grade CO₂ product (> 99.998%), in accordance with the **ISBT and EIGA quality guidelines.**

TPI provides customers with the most cost-effective solutions in purifying and liquifying CO₂

CO₂ PLANTS

CO₂ Liquefaction Plants

CO₂ Production Plants

CO₂ Extraction Plants

BIOGAS UPGRADING PLANTS

Biogas upgrading plants (membrane technology) BIOTOP NEXT

Biogas upgrading plants (absorption with amines)



For Biomethane Liquefaction Plants see page 9

Biogas Treatment plants

TPI's Biogas upgrading plants purify and refine Biogas produced from OFMSW (Organic Fraction Municipal Solid Waste), processing scrap and by-products, effluent from livestock farming, crop wastes and other biomass.

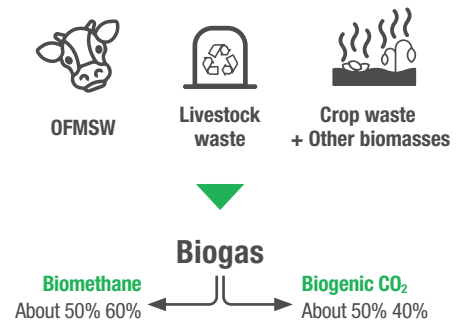
Several technologies exist for **Biogas treatment and refinement**, and TPI offers the best ones available (membrane technology or absorption with amines), obtaining both Biomethane for feeding into the network or liquefaction, and Biogenic CO₂.

The 3-stage HPSM membrane systems involves the use of ultrahigh selectivity polymeric refinement membranes that allow the achievement of high refined gas flow rates and high yields.



Technology and know-how

The advanced technology built into the Biogas upgrading plants allows the separation of a large number of different components that are appropriately filtered and removed allowing the Biomethane obtained to gain **advanced Biofuel certification** in compliance with the network code and also further specific market requirements.



Engineering and After-sales services

- ✓ Design and implementation of custom-made installations
- ✓ Technical assistance for installation and start-up
- ✓ Scheduled maintenance contracts
- ✓ Remote assistance and 24/7.

Pentatec Division of Tecno Project Industriale is specialized in the supply of gas analysis instruments and systems for quality control of gases in the Beverage and Industrial Gas industries.

The analyser is designed to assure the highest accuracy and reliability with minimum cost to comply with the strictest CO₂ purity specifications.



The SIAD Group

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Industrial Gases



LPG and Natural Gas

Healthcare

Industrial Gases

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