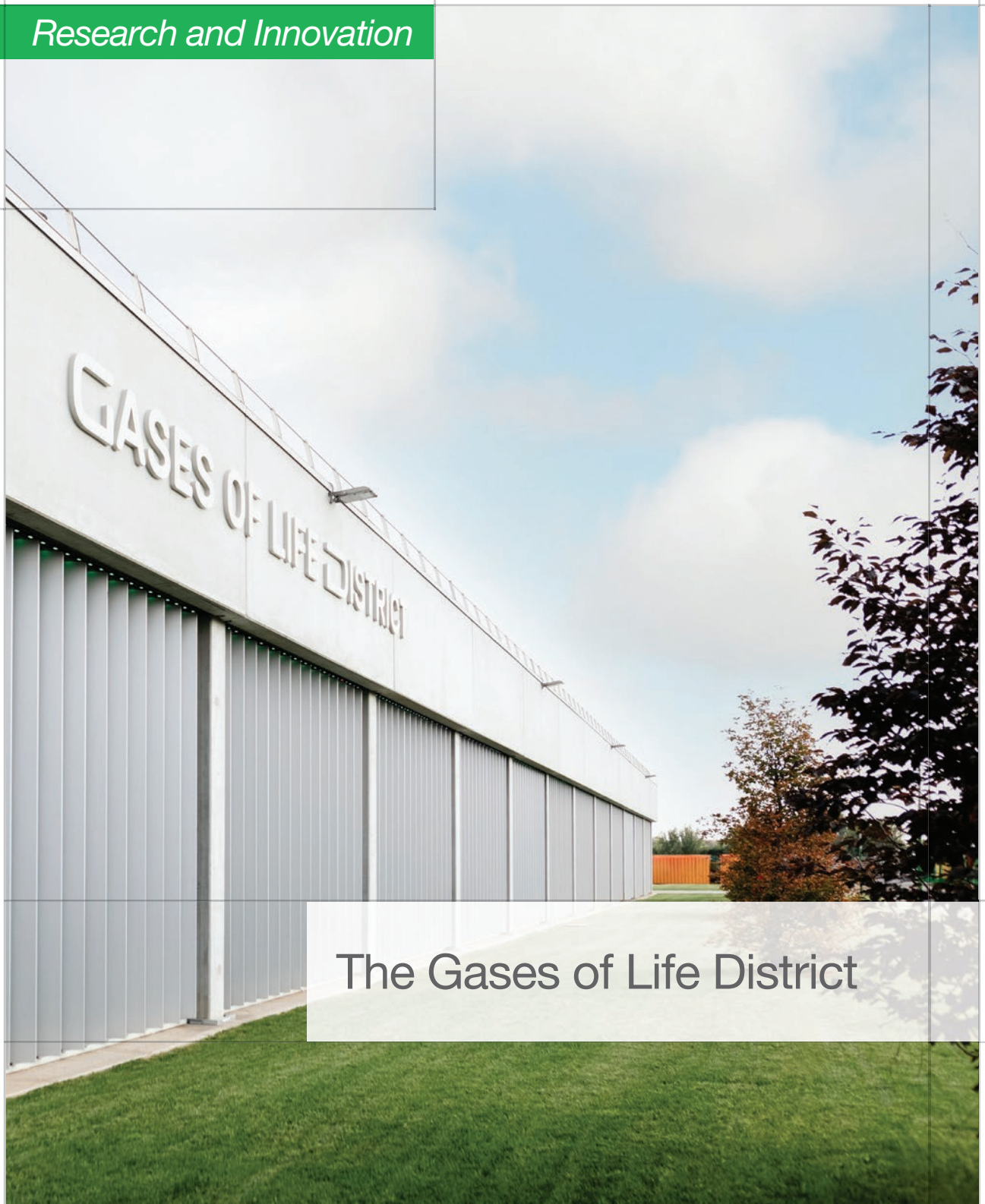
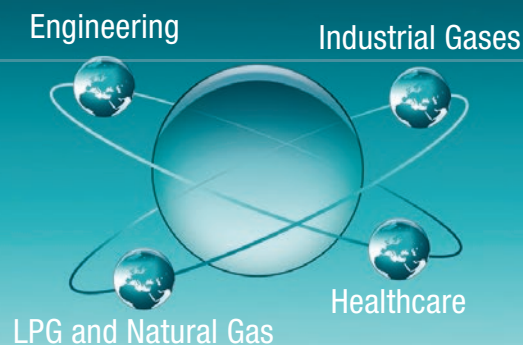


Research and Innovation



The Gases of Life District

The SIAD Group



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

Business and geographical diversification is complemented by 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 paid 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**.

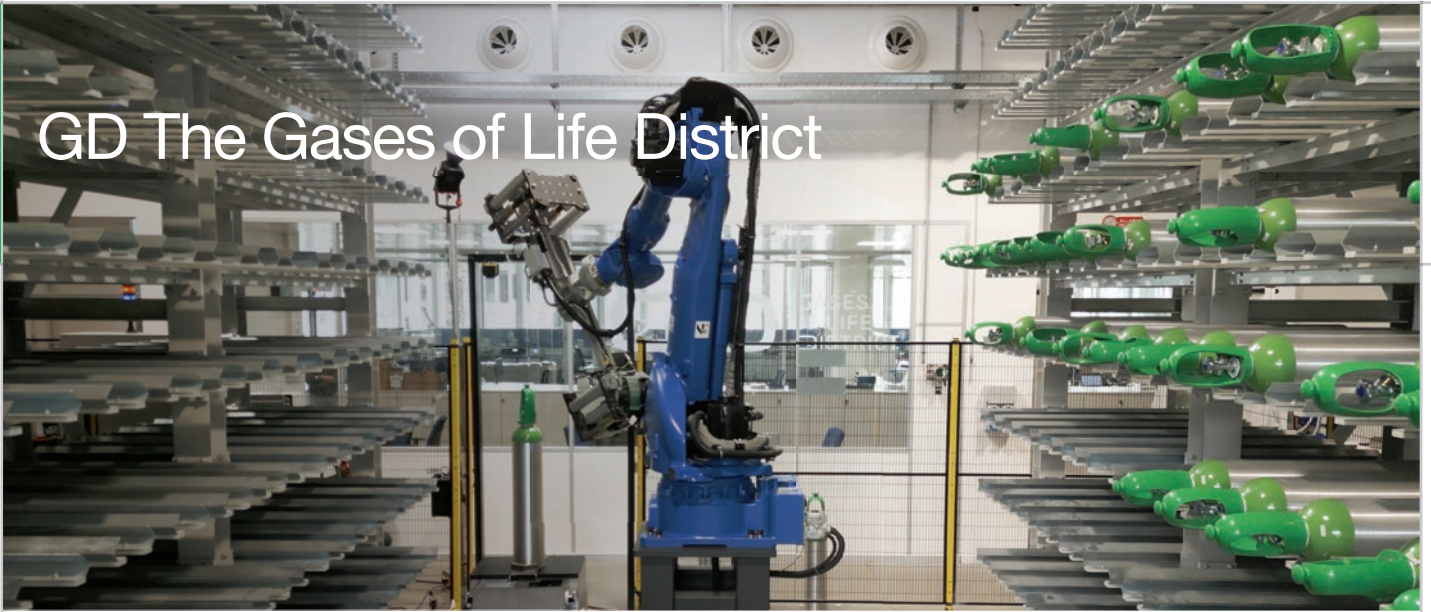
The mission of the SIAD Group is to **improve the quality** of life through technological innovation, environmental sustainability, and excellence in the services offered. SIAD is committed to being a reliable partner for its customers, contributing to their success through safe, efficient, and sustainable solutions.



Discover more.

- **Solidity:** with nearly 100 years of history and strong financial results, SIAD is rooted in Bergamo, Italy with a global outlook, where growth aligns with core values.
- **Innovation:** SIAD delivers unique solutions tailored to customer needs, driven by synergies and technological exchange across sectors.
- **Authenticity:** the Group values expertise, reliability, and direct relationships, emphasizing dialogue and transparency with customers.
- **Difference:** tradition, innovation, and quality research are intertwined with strong local ties and diverse projects, making SIAD unique.

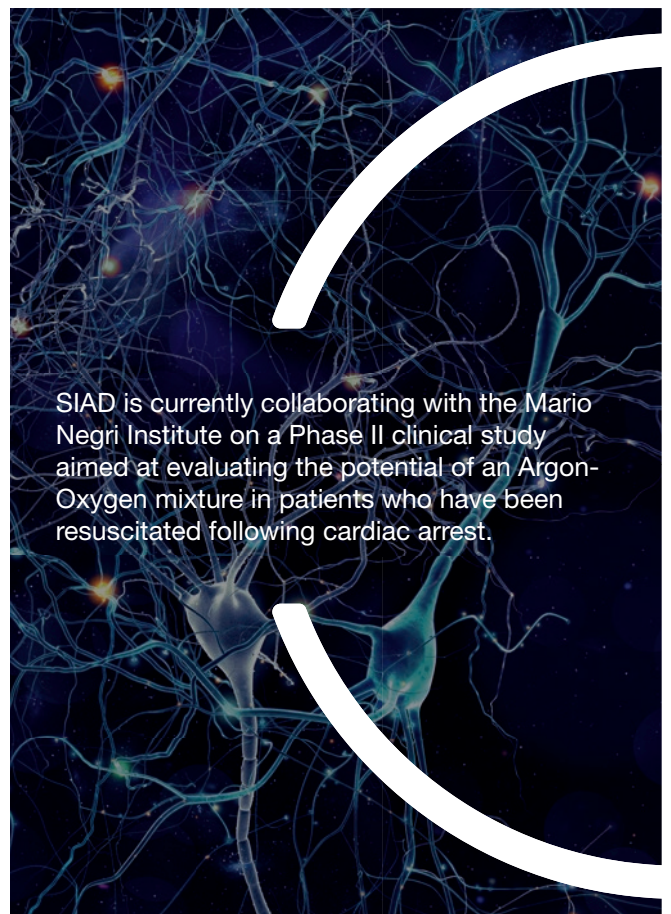
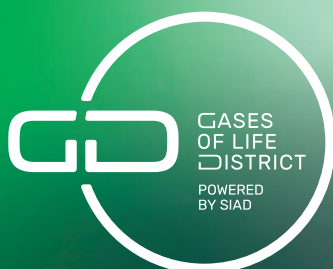
GD The Gases of Life District



SIAD research is actively following the **recent discoveries** of biological properties of many gases and the need for new and more specific uses of gases and gas mixtures

This District represents a strategic area of SIAD dedicated to the **production and supply of gases** that play a crucial role in various sectors, enhancing the quality of daily life and supporting **important industrial and medical processes**.

The Gases of Life District, powered by SIAD, is a project that underscores the Group's commitment to the production and distribution of **gases essential for life and wellbeing**, both in industry and healthcare.



SIAD is currently collaborating with the Mario Negri Institute on a Phase II clinical study aimed at evaluating the potential of an Argon-Oxygen mixture in patients who have been resuscitated following cardiac arrest.

Food and Beverage



One of the areas where the biological properties of gases have the greatest impact is in the **growth of vegetables** and the **preservation of fruit and food**



With its extensive experience and highly qualified service, SIAD stands out as a strategic partner for companies in the sector, providing food-grade gases, packaging solutions, refrigeration and freezing processes, and advanced, customised consulting services and special gas mixtures.

In the food sector, our gas application activities aim to enhance the **sustainability** and **resilience** of the agricultural system.

- Extend shelf-life, **preventing food waste** with gas mixtures.
- Innovative food gases that **improve sustainability** of the supply chain.
- Optimizing water consumption, avoiding the use of pesticides, and **promoting innovative cultivation systems**.



Environmental



New demands for **optimising biogas production** and **purifying water of micropollutants** require new processes and technologies

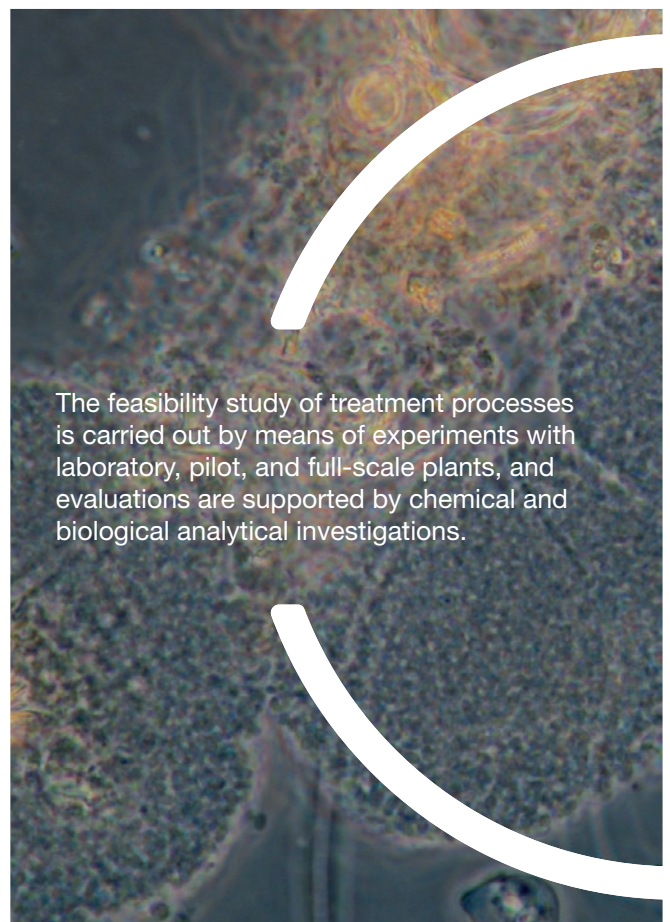
The Environmental Biology and Chemistry Laboratory is an applied research center in the **environmental** sector and brings together the experience of more than thirty years activity on wastewater treatment and groundwater remediation.

- Waste water treatment.
- Contaminated sites remediation.
- Environmental monitoring.

The Laboratory collaborates with Universities and Research Centers on projects aimed at studying new processes and technologies for solving increasingly complex environmental problems.



Discover more about SIAD
research projects.



The feasibility study of treatment processes is carried out by means of experiments with laboratory, pilot, and full-scale plants, and evaluations are supported by chemical and biological analytical investigations.

Metrological Mixtures

LAT

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The SIAD Group's division specializes in producing **internationally traceable calibration gas mixtures**, calibrated or produced in compliance with ISO 17025 or ISO 17034



SIAD was the first Italian gas laboratory to produce metrological mixtures in 2001.

This process involves calibrating a scale by defining a reference sample, and SIAD's metrological laboratory creates measurement standards in the form of gas mixtures.

The LAT Center and the RMP Producer originate from the SIAD Research Laboratory, leveraging its decades of experience and expertise in the **preparation and analysis of traceable metrological mixtures**.

- ISO 17034
- ISO 17025
- +50 Accredited Components
- Calibration services for instruments at clients' and partners' locations

perfecta

What is Perfecta?

Perfecta is the SIAD Group's brand of internationally traceable calibration gas mixtures, calibrated or produced in accordance with ISO 17025 or ISO 17034.



Configure your mixture.
Try Perfecta.

Gas Mixtures



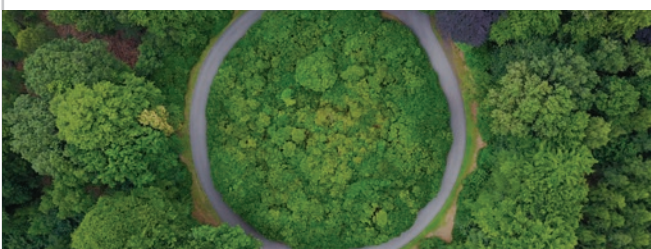
New gas mixtures are used in various sectors, **energy** (e.g. biogas analysis or hydrogen analysis), **medicine** (e.g. Breath Analysis or biomarkers), **environment** (e.g. micropollutant analysis and PFAS)

With a wide range of sophisticated instruments and expert personnel, SIAD Laboratories can prepare **multiple types of gas mixtures**.

The main activity of the laboratory is the production of mixtures that meet the specific requirements of multiple industrial sectors and highly customized mixtures **based on specific customer requests**.

The commitment to research and the ability to achieve **excellent results**.

- Capability to manage over 400 components
- Stable mixtures with up to 135 components
- Production in accordance with EPA Protocol Mixtures (TO 14, TO 15, and others)
- VOC Mixtures for Environmental Monitoring



Prepared from high purity components, SIAD gas mixtures are produced in the **Research Laboratories and special gases facilities**, adhering to strict quality, safety, and precision standards using the most modern and technologically advanced mixing systems.

The SIAD Group

Engineering

Industrial Gases



LPG and Natural Gas

Industrial Gases

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