

**PRESS RELEASE**

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**Teréga Solutions launches IO-BASE,  
a digital platform serving the energy transition  
and industrial performance**

**Teréga Solutions is launching IO-BASE, a cloud-based, high security solution for the collection, storage, viewing and utilisation of industrial data, whose aim is to improve industrial performance.**



*"The energy sector faces great change at the moment. It is reinventing itself, and digital is one of the keys to that reinvention. IO-BASE represents an innovative and ground-breaking digital approach that responds to the challenges of cybersecurity, industrial data sovereignty and digital frugality. We are proud to present this solution. "*

**Dominique Mockly, Chairman of Teréga Solutions**

*"IO-BASE bears witness to our historic capacity to acquire, manage and secure data in such a highly sensitive sector as gas. This platform is the mutualisation of industrial and digital expertise, with the aim of improving the management of data and industrial processes."*

**Emilie Bouquier, Director of the Multi-Energy & Digital BU within Teréga Solutions**

Teréga is working hard to shape the energy model of tomorrow, constantly developing new expertise and introducing innovative solutions to serve the needs of businesses across its territory. Tomorrow, the challenges will be to revolutionise Teréga's operations, transforming infrastructures into *smart grids* (communicating "multi-energy" networks), which are secure and increasingly interconnected, capable over time of permanently optimising the service offer and thus reducing costs for the energy end user. As part of the process to turn those ambitions into reality, the company embarked upon an Industry 4.0 project in 2017. A major milestone was reached with the launch of a new reliable and agile cloud architecture capable of supporting Teréga's data and future services: more data will allow improved management and the creation of smart services. Central to this project and this industry's acceleration into digital is IO-BASE, an innovative new service offer.

## Better performance through industrial data

With **500** cut-off stations and a stock of **26** compressors, Teréga operates **450** gas supply points and manages **58,000** stations feeding data back to central dispatch. One of the main challenges today is to optimise infrastructures, both at the operational level, in the face of ever larger and more complex flows, and at the environmental level.

The fruit of Teréga Solutions' expertise, IO-BASE meets that need: developed internally on technologies and approaches that enable it to be made scalable with a high level of performance, resilience and security, the solution allows the collection of all industrial data by the tailored creation of a digital twin:



**to improve the industrial performance of one or more sites according to their specific characteristics,**



**to be energy efficient,**



**to encourage the creation of intrinsic value,**



**and to respond to the challenges of cybersecurity through a highly secure network.**

Without digital, only about 10% of industrial data would be exploited.

As an accelerator of data, this digital management solution is also agile and fully evolutive, requiring no deployment of physical infrastructure. In fact, IO-BASE has been designed with digital frugality in mind, and draws on the use of Amazon Web Services (AWS) managed Cloud services. Running servers consumes a lot of energy, and mutualising tools and hosting data in industrial data centres allows real gains in terms of efficiency, security and energy consumption. Added to which, the use of public Cloud services and native Cloud solutions reduces operating costs since services are only billed once they are actually used, in contrast to private data centres.

The IO-BASE digital platform currently stands on four pillars:

- **INDABOX**, a plug-and-play tool allowing secure data collection on site,
- **INDABA**, a 100% Serverless smart platform which continually enriches data flows,
- a hypervisor called **INDAVIEW**, which allows viewing and real-time exploitation of industrial process data,
- a management tool, **INDABA Explorer**, providing access to historic data, export of those data, and alerts in the event of threshold changes.

This first line of services is the basic platform upon which Teréga Solutions is creating services to improve performance and accelerate innovation.



To create this digital platform, Teréga Solutions drew on a network of technological partners such as AWS, **SlowSense** for web development and innovation, Starting Blocks for the creation of blockchain solutions, and finally Skale-5, an expert in DevOps practices. Then integrator partners contributed to the rollout of the solution: **AKKA** and **Talan** for the engineering aspects and **Biogasview**, for the creation of specific IT software solutions dedicated to the biomethane sector.

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## About Teréga Solutions

Teréga Solutions is a subsidiary of Teréga.

A true accelerator of the energy transition, for more than 75 years Teréga has deployed its exceptional expertise in the development of gas transport and storage infrastructures and now designs innovative solutions to overcome the major energy challenges facing France and Europe. SNAM Spa, GIC, EDF invest and Predica are the shareholders of the Teréga Group.

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