

Régaz-Bordeaux

2050 goal: 100% green gas

Régaz-Bordeaux, a subsidiary of the Bordeaux Métropole Energies group, manages the gas distribution network serving 46 municipal areas in the Gironde region.

In order to effectively address environmental challenges and become a proactive player in the region's Net Zero strategy, the company's goal for 2050 is to move to a configuration where it can distribute 100% renewable gas from local biomethane production and from hydrogen infrastructures under development. To back its ecological transition ambitions, the Bordeaux-based company has once again chosen the Panorama SCADA platform to support 24/7 control and monitoring of gas delivery throughout its service area. This strategic cooperation for the remote monitoring and operation of its network, which began in 2005, is likely to continue for many years to come.



in figures

- 46 municipal areas served
- 3,500 km of pipelines
- 226,000 gas delivery points (active meters)
- 300 distribution stations, with 156 remotely operated
- 5 biogas injection stations



A decision support system

Thanks to the Panorama SCADA software, the remote monitoring of the 300 Régaz-Bordeaux pressure reducing stations is finely controlled to ensure that gas is distributed in complete safety and in accordance with users' needs. To achieve this, several functions are implemented on a daily basis: real-time data collection for network monitoring, alarm management and voice integration for reduced response times, display of trends to assess network stability, use of database interfaces and object programming so that new stations can be added quickly and easily.



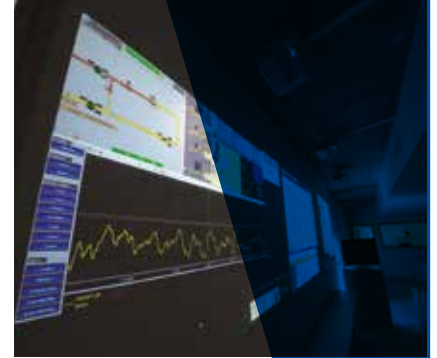


Ensuring security of supply

Operations and safety centre equipment features several HMI screens to ensure permanent monitoring and control of the network. The issue of safety is of paramount importance.

The high quality data provided by Panorama includes flow and pressure trends, real-time consumption of each pressure reducing station, comparative consumption and biomethane injection needs, and allows the operations and safety centre to predict failures and to implement corrective and preventive actions.

Moreover, future developments of the Panorama SCADA system will facilitate the use of paperless work orders for the safety teams as a device for even higher levels of reactivity.



Operations and safety centre equipment



Natural gas network

A scalable and sustainable solution

The Panorama application evolves with the development of the network. This is fundamental and the Régaz-Bordeaux teams count on the critical collaborative relationships built with all of Codra's teams. The openness and scalability of the computing solution have already enabled the application to be redesigned, with the evolution of the architecture and implementation of components for specific needs such as classification by type of alarms. Other enhancements are in the pipeline, including interconnection with third-party systems (CMMS, GIS, geolocation), deployment of web-based HMIs to simplify field interventions, and a commitment to integrated industrial design for improved ergonomics. The SCADA solution thus contributes to the scalability and safety of the regional network.

Régaz comitted to green gas

Régaz-Bordeaux is supporting the development of biogas injection units and extending its research into local and sustainable energy solutions. With the objective of completely decarbonizing the energy used in its network, it is exploring other areas of innovation such as hydrogen injection. Panorama has a concrete role to play in delivering this «Smart Gas Grid» strategy by offering a monitoring and control platform capable of evolving to support each new technological need.