

Process Automation Reliable and sustainable air treatment for gas facilities

Nippon Gases, Belgium

During the construction of a scrubber park, Process Automation solutions were chosen to ensure a reliable and long-lasting operation.

Innovation with heritage - decades of partnership and state-of-the-art solutions

In order to comply with increasingly stringent regulations and work towards a carbon neutral world, industrial gas manufacturers such as Nippon Gases Belgium rely on cutting-edge solutions to reduce their impact on the environment. Teblick, a Belgian specialist for plastic constructions, was therefore tasked with designing and building the new scrubber park for the company's Oevel facility.

Project background

The products offered by Nippon Gases can be grouped into three categories: atmospheric-, process-, and electronic gases. At its Oevel facility, Nippon Gases Belgium focuses not only on nitrogen and oxygen, but on a number of products for the semiconductor industry, too. When industrial storage cylinders and containers are returned after usage, neutralizing any remaining residues is crucial for avoiding contamination and ensuring product quality. The main challenge is to treat non-standard chemical products while implementing sustainable solutions. For this Nippon Gases commissioned Teblick to construct the new scrubber park.

Selected technical solution

Decades of collaboration between GF and Teblick made the Swiss flow solutions provider's products as standard in its plastic constructions. In order to make the air treatment solution as effective, reliable, and efficient as possible, the Belgian company selected Process Automation field level components such as valves, actuators, measurement, and control technology that allows Nippon Gases to operate, monitor, and analyze their air treatment installation. In addition, GF offers Specialized Solutions that enable customers to access extensive Digital Libraries, receive Engineering support, or inspect pipe welds with Ultrasonic Non-destructive Testing (NDT).

Achieved improvements

The streamlined execution of the project and seamless integration of selected components resulted from successful collaboration among all parties. GF Piping Systems, Teblick, and Nippon Gases share a 40-year partnership. The largest air scrubber now cleans up to 15,000 m³ of air per hour, advancing Nippon Gases Belgium's sustainability efforts. Durable, maintenance-free plastic materials ensure system longevity, while modern automation enhances safety and efficiency in the scrubbing process. GF Piping Systems can provide its customers with planning support, technical training, and tools throughout all project phases.



Process instrumentation as well as manual and automated valves streamline the operation of the scrubber park.



Leftover residue in gas storage cylinders and containers needs to be neutralized before they can be refilled.

Where next?



Process
Automation



See here the
success story of
our customer

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Customer Benefits

- **Extensive know-how and a comprehensive portfolio of full-scale Process Automation solutions for the field level have convinced Teblick to install components by GF Piping Systems as standard.**
- **Corrosion- and maintenance-free materials ensure that the scrubber park can run reliably and continuously for decades while simultaneously meeting environmental regulations.**
- **Specialized Solutions by GF Piping Systems can provide support throughout all project phases from design to operation, ensuring a high-quality and flexible installation.**

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