

Smart Factory

Vetreteria Giacon Luigi S.r.l.

Introduction

Aiming to merge **artisanal tradition** with **technological innovation**, Vetreteria Giacon has initiated a digital transformation journey to enhance production and increase energy efficiency.

The project, conceived to regulate production processes, analyze data in real time, and minimize energy consumption, amalgamated management systems and supervisory platforms into a cohesive digital ecosystem.

Thanks to the Niagara platform and the EasyLink supervisor, the company has developed a smart glassworks that can monitor and optimize production and energy flows, thereby enhancing its artisanal vocation.

Context and Challenges

Before the advent of new digital technologies, the company encountered numerous competitive challenges:

- Management of production and energy expenses.
- Disjointed data management and inadequate real-time visibility.
- It is essential to elevate the artisanal aspect while preserving industrial efficiency.
- Optimization of purification processes and energy efficiency.
- Enhancing sustainability through the lens of Industry 5.0.

The increasing emphasis on decarbonization and intelligent automation has prompted a significant advancement in the digitalization of processes and the acquisition of production and energy data.



Vetreteria Giacon, a venerable company established in 1958 in Maron di Brugnera (PN), is a prominent name in the glass industry for furniture and design.



Over the years, it has adeptly integrated artisanal tradition with technological innovation, progressing towards an industrial production model while maintaining product quality and customization.

With two production facilities and around 75 employees, Vetreteria Giacon exports 45% of its output and partners with leading brands in the furniture industry.



Project by SMC, a DGS Company. Developed with the assistance and expertise of QuickLink Solutions.

Since 1983, SMC has established itself as a leader in digital transformation, operating six national offices and employing over 170 IT professionals. Specializing in advanced solutions utilizing open source technologies, the company is dedicated to enhancing user experience and ensuring seamless integration of solutions to elevate their clients' business efficiency.

Implemented solution

By implementing the **Niagara framework** alongside the **EasyLink** native supervisor, Vetreria Giacon has developed a sophisticated system for the real-time collection, monitoring, and management of production and energy consumption data. This solution seamlessly integrates EasyLink with OpenSquare, the company's information and management backbone, as well as with Carlo Gavazzi electrical meters, thereby establishing a distinctive ecosystem for process analysis and optimization.

Thanks to Niagara technology, more than 18 work centers, including manual ones, are now interconnected for comprehensive oversight of machinery and systems. This integration facilitates continuous monitoring and optimization of the most energy-intensive systems—such as the purification system and the 600 kW photovoltaic panels—enhancing the efficiency and overall sustainability of operations.

easyLink

powered by
niagara
framework®



Advantages and benefits

The implementation of the centralized energy management and monitoring system has got numerous advantages:

- **Operational efficiency:** streamlined production processes and minimized processing durations.
- **Advanced energy management:** real-time consumption tracking and analysis.
- **Minimization of production expenses and energy waste.**
- **Optimization of energy and production processes,** particularly within the purification facility.
- **Sustainability and energy independence:** factories equipped with photovoltaic systems.
- **Valorizing craftsmanship:** reallocating resources from automatable tasks to high-quality manual endeavors.
- **Custom KPIs and real-time monitoring are accessible for management.**

Testimony

FINAL CLIENT

Paolo Giol, Management, Vetreria Giacon

“ Through the Niagara and EasyLink projects, we have successfully consolidated production and energy data onto a single platform. We can now monitor the energy consumption of each plant in real time, enhance process management, and minimize waste. This integration enables us to merge innovation with craftsmanship, thereby increasing the efficiency and sustainability of our glassworks.

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Summary data

Final client	Vetriere Giacon Luigi Srl
Sector	Glass fabrication
Technological partner	SMC – DGS Corporation
Solution	EasyLink, a native application on the Niagara platform, is integrated with OpenSquare ERP and Carlo Gavazzi meters.
Year	2025
Country	Italy

WHO WE ARE – QUICKLINK SOLUTIONS

Since 2008, QuickLink Solutions has distinguished itself with its advanced energy management solutions for both buildings and industry. Our offerings, built on Tridium's Niagara framework, facilitate the swift and straightforward configuration, deployment, and maintenance of energy management systems. We function as a Solutions Partner, delivering innovative technologies through a network of certified System Integrators.