



The Challenge

GS-Inima's operational data was fragmented and **locked inside a wide variety of SCADA systems** that were not designed to share information.

Historical trends were **impossible to analyse** and, without a unified view, the company could not properly understand energy use, seasonal fluctuations, or system performance across more than 200 water treatment projects in 12 countries.

SUCCESS STORY

Smart Water Operations through Edge Computing

With Barbara's support, GS-Inima deployed **edge nodes at its water treatment plants**, starting with Seseña (Spain) and Ensenada (Mexico) as the blueprint for a global rollout. Using Barbara's Platform, OPC-UA, OPC-DA, and Modbus connectors **read data directly from SCADA systems**, PLCs, and photovoltaic equipment.

The data is stored locally for historical analysis and published to a cloud MQTT broker that centralizes every connected site, while Barbara's Platform remotely orchestrates every application.

Key Results



Unified Operational View. Data from every connected site centralized within a single standardized stream.



Historical Analysis Recovered. Local time-series storage makes seasonal and performance trends available for analysis.



Fast, Repeatable Rollout. Two plants connected in under 12 months, with the architecture ready for portfolio-wide replication.