

REMOTE MONITORING & COMMAND OF LAKE WATER PUMPS

Steel Sector

MAIN BENEFITS OBTAINED

- Remote pump monitoring and command, without the need to go to the lake electrical room, far away from the industry
- Interface through web browser or smartphone, from within or outside the industry, with user access control
- Communication through the existing corporate IT installation and firewalls
- Measuring of lake water consumption, a demand from the utilities supplier and environment agencies





CLIENT AND CONTEXT

CONTEXT

When water demand is higher than the local supplier capacity, pumps are started to provide water from the nearby lake.

This command had to be done locally.

Operation staff had to drive to the lake to start, monitor and stop the pumps.

NEEDS AND CHALLENGES

coverage.

CHALLENGES

operational safety and cybersecurity.

REMOTE COMMAND & WATER ACCOUNTING

- Pumps and electrical room installed near the lake, far
- from the industrial process and without mobile phone
- No water accounting was performed until that moment.

Remote monitoring and command of the pumps, keeping

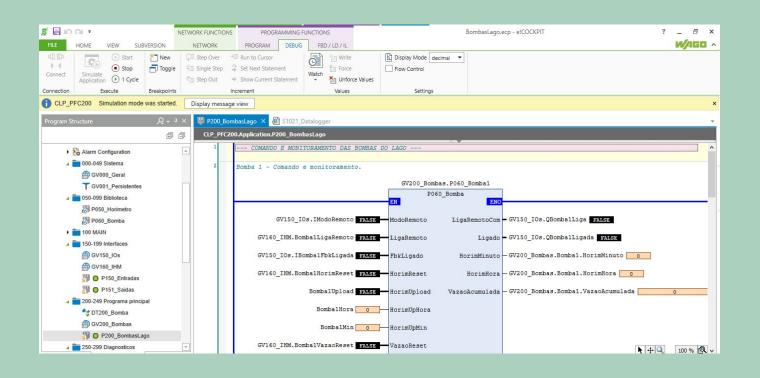
SOLUTIONS DELIVERED



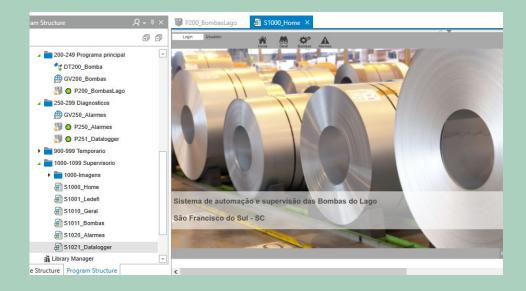
Process digitalization through the installation of a local PLC and development of web-based SCADA, using the existing corporate IT installation and firewalls.

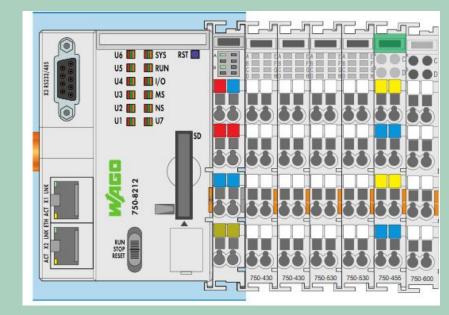
OPC UA communication with the industry data logger.

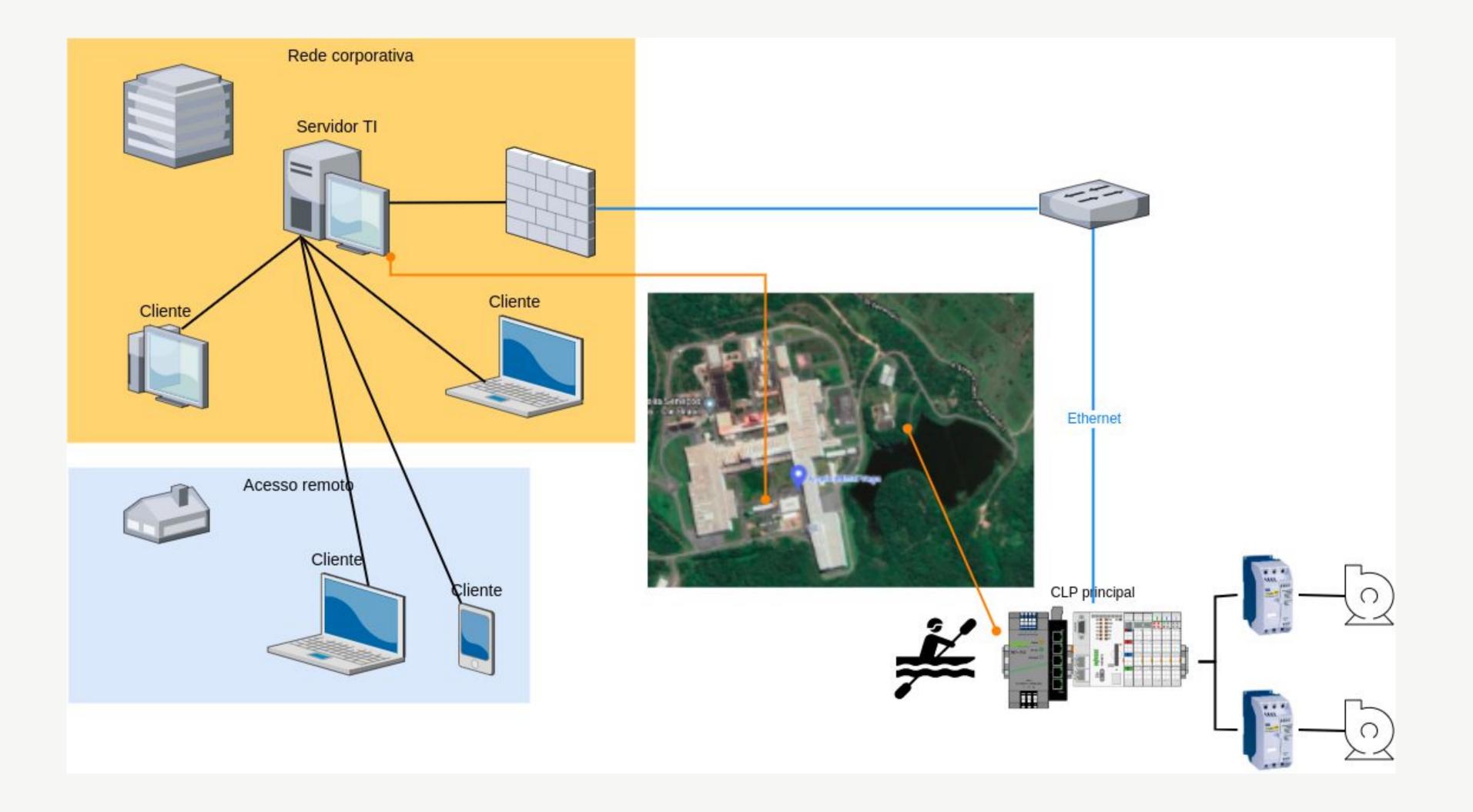
Electrical installation allowing the return to local command, in case of automation or network failure.











DELIVERABLES

WAGO PLC AND COMMISSIONED

SOFTWARE DOCUMENTATION

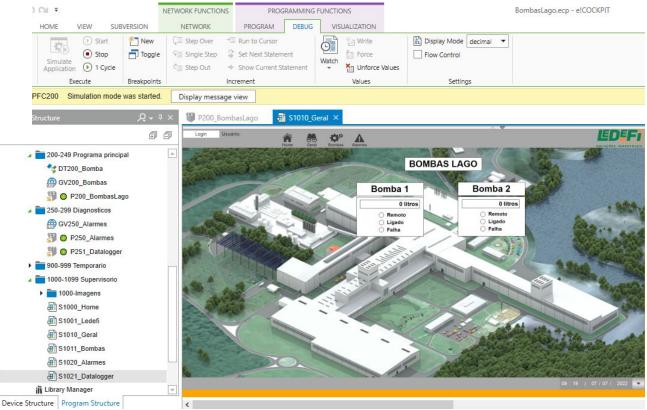
WAGO PLC AND SCADA PROGRAMS, TESTED AND

Technologies & brands

Wago PLC PFC200



Software e!COCKPIT



Wago WebVisu HMI



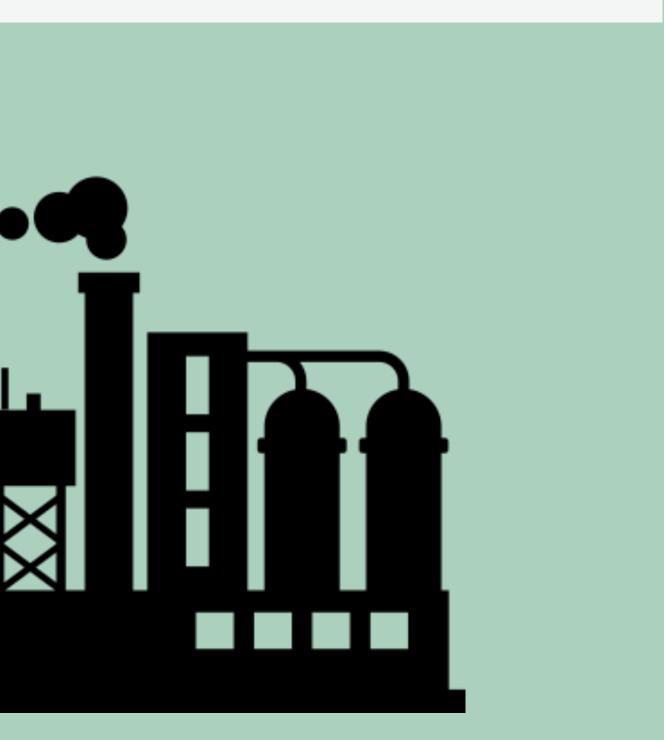
No more need to drive and stay at the lake electrical room, with monitoring and command being executed by authorized users from any computer or smartphone connected to the IT corporate network.



CUSTOMER SATISFACTION

Industries with electrical rooms located far away and with existing IT infrastructure.

WHERE ELSE CAN IT BE IMPLEMENTED?



ADDRESS

WHATSAPP

Itajaí - Brazil

+55 47.98858.2917

Please contact us to receive other cases that may be applied to your challenge.

WHAT IS YOUR CHALLENGE?





challenges@ledefi.com.br

LEDĘFi