

HYDROSTADIUM

ENERGY



Hydrostadium, a subsidiary of the EDF Group, produces hydro-electricity by harnessing the potential energy of a head of water and transforming it into clean, renewable energy. For reasons of reliability and durability, Hydrostadium has chosen the Panorama SCADA for the revamp of the SCADA system which covers each of its 250 "small-hydro" power plants (<12MW capacity). Moreover, the solution will also offer Hydrostadium's operators a reliable and functional Hypervision system to facilitate the maintenance and operation of the plants.



Aim

To equip the 250 «small-hydro» production units with a standalone, independent, local SCADA that communicates all the necessary information to the hypervision located in Annecy.

To equip the company with a Hypervision system allowing the different user profiles - operators, operations managers, application administrators - to view and/or operate each of the facilities from the main regional operation and maintenance centers.

This Hypervision must also be capable of exchanging data with large-scale hydro plants (hydraulic dams with capacities in excess of 12MW).



Solution

Hydrostadium chose the Panorama SCADA and Historian platform for its scalability and interoperability.

The object-based approach adopted for the Panorama platform means that local integrators can work with a library of graphical and functional objects to adapt the reference application to the functional requirements of each dam. For the customer, this is a guarantee of productivity during the deployment of the solution across the 250 units. It also offers the assurance of excellent application maintainability thanks to the high degree of consistency between the local applications.

For the successful implementation of this project, Panorama's expertise unit is supporting Hydrostadium with its national deployment strategy as well as assisting in the development of the Hypervision.



Customer benefits

The Panorama platform offers each user both local and global views of the network of hydro facilities. A center manager for instance will be able to view a plant complex, a valley, a catchment area or a region from his or her control station.

All users also have a mobile application to monitor in real time the current status of each dam (reservoir level, active power, status logging, alarms, etc.). This additional operating aid further facilitates the operation and maintenance of the hydro-electric production sites.

