



Axpo Hydro Digital – Robotics Services

hydrone® – Use of drones in hydro power plants

A solution to the challenges of day-to-day work

Intelligent drones make maintenance and safety measures much easier. Thanks to the now highly mature technology, the areas of application for drones are constantly expanding. From inspecting previously unreachable areas to data collection for 3D models of entire hydropower plants and dams, drones offer enormous potential in the field of hydropower. Last but not least, the improved data basis and the minimisation of occupational accidents support the use of flying helpers.

Benefits for operations

-  Identify danger areas
-  Improve occupational safety
-  Save important time in the event of an incident
-  Detect damage at an early stage
-  Cut down arduous journeys
-  Improved data basis

Possible areas of application for drones on power plants and industrial plants

- Structural inspections
- Monitoring of stream bed flushing
- Inspection of water catchments
- Dam inspections
- Inspections of bank areas
- Monitoring avalanches, rockfalls or debris flows
- Monitoring of company premises
- Documentation
- Surveys at high altitudes
- Inspections of aviation obstacle markings
- Approval of paths and roads
- Inspections of solar systems

hydrone – Comprehensive service package

Power plant employees can focus on using the drones – Axpo Hydro Digital takes care of everything else, relieving the power plant managers and team leaders of the majority of secondary operational activities.

Axpo Hydro Digital supports plant operators in operating and selecting suitable drones. A consultation is held in advance to determine which drone is best suited for the operator-specific use cases and conditions, and which accessories are required.



User feedback

"Some areas of the shore in our reservoir areas are very difficult to reach on foot or sometimes impossible to reach at all. With a drone, inspection activities can be carried out from a safe distance."

Thomas Hilfiker - Eglisau-Glattfelden power plant

"By using the mini drones, we save time, avoid external costs, and increase occupational safety for our employees."

Nino Baumgartner - Linth-Limmern power stations

"In addition to saving time, using a drone is also a huge advantage from a safety point of view, because you can access the stream bed directly without having to walk hundreds of metres along the slippery stream bed."

Thomas Zimmermann - Sarganserland power plant



Want to find out more?

hydrone – your reliable partner for the compliant use of drones.

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