



Inspection Services for Long Range Tunnels

Solutions to Reduce Maintenance and Inspection Costs

One issue that many hydroelectric facilities face at some point in their lifespan is the need to conduct a condition assessment on long tunnels. These tunnels are critical to the proper operation of each facility and can cause extreme issues should they encounter a failure or blockage situation. Because it is often impractical to dewater the facility to inspect these tunnels, there are distinct challenges to completing a thorough inspection while minimizing outage times. These challenges can include distance between access points, large diameters, logistics difficulties with access, limited outage time, water depth, and/or inability to fully shut flow down for inspection.

Hibbard Inshore is able to address these situations in fully flooded tunnels with a comprehensive fleet of underwater vehicles and sensors. Each vehicle is selected specifically to fit project circumstances, and Hibbard Inshore's vehicles are capable of providing real time video and inspection sensor data at ranges exceeding 20 km. In many cases, the vehicles are able to conduct inspection tasks in light flow situations at great distances. This allows plants to maintain necessary minimum or environmental flows during the inspection process.

In addition to our wide range of solutions for inspection of fully flooded tunnels, Hibbard Inshore also can provide 3D laser and Video inspections of large diameter dry tunnels up to 3.2 km in length. If your facility has a dewatered tunnel that may not be safe for a walkthrough inspection, Hibbard Inshore can provide a robotic solution to get you the data you need while keeping your staff and contractors safe.

If your facility has a long tunnel that is in need of condition assessment, please contact us at Hibbard Inshore. We would be happy to help you to form a plan to get you data needed to make critical lifecycle decisions with respect to your facility.



20+ km Swimming Vehicle for Flooded Tunnels



5 km Swimming Vehicle for Flooded Tunnels



3.2 km Crawling Vehicle for Dry Tunnels