# **Hydropower Turbine Generator Monitoring**

# **Torque Transducer**

# **Industry: Infrastructure**

## **Summary**

### **Customer Challenge**

A customer wants to monitor and detect any turbine generator faults in their hydroelectric power plant located on a river.

### Interface Solution

Interface's solution is to use the T2
Ultra Precision Shaft Style Rotary
Torque Transducer and attach it to the
turbine generator with Interface's Shaft
Style Torque Transducer Couplings.
When water from the river pushes
through the penstock to the outflow,
it moves the turbine blades, creating
electricity through the generator shaft.
Torsion measurements can be graphed
and logged with the 9850 Torque
Transducer and Load Cell Indicatorcatching any unusual fluctuations and
vibrations.

### Results

The customer was able to monitor, graph, and log the torque measurement results of the turbine generator.

### **Materials**

- T2 Ultra Precision Shaft Style Rotary Torque Transducer
- Interface Shaft Style Torque Transducer Couplings
- 9850 Torque Transducer and Load Cell Indicator

# Hydropower Plant Tz Ultra Precision Shaft StyleRotary Torque Transducer Generator Turbine Tansducer Couplings

# How It Works

1. The T2 Ultra Precision Shaft Style Rotary Torque Transducer is installed with Interface's Shaft Style Torque Transducer Couplings onto the hydropower turbine generator.