

Floating Wind Turbine Monitoring Load Shackle

Industry: Maritime

Summary

Customer Challenge

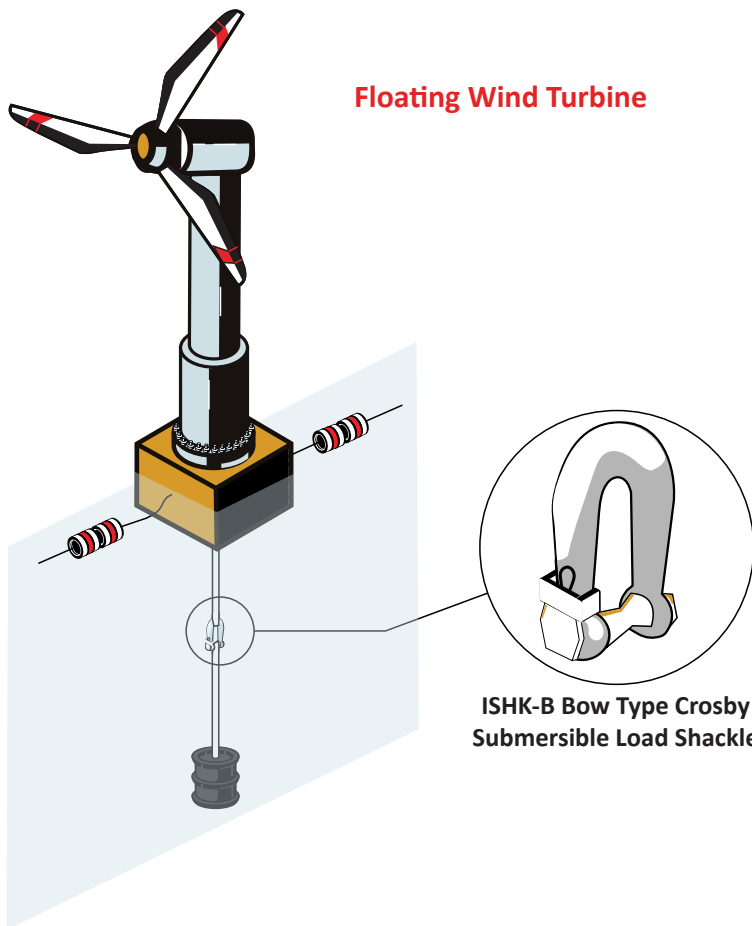
Floating or offshore wind turbines are being created to generate electricity at depths where normal turbines cannot. A customer would like to measure the tension of the mooring line of each of their turbines on their floating wind farm. They want to monitor the tension of the mooring line that keeps the turbine in place, in order to detect crack initiation or potential fractures.

Interface Solution

Interface's ISHK-B Bow Type Crosby™ Submersible Load Shackle Load Cell can be attached to the floating wind turbine's mooring line, which is attached to an anchor. With customer instrumentation, the customer is able to monitor the force tension of the mooring line based on the force results captured by the load cell.

Results

The floating wind farm was completely monitored by Interface's submersible force measurement solution system.



Floating Wind Turbine

ISHK-B Bow Type Crosby Submersible Load Shackle

Materials

- ISHK-B Bow Type Crosby™ Submersible Load Shackle Load Cell
- Customer Instrumentation
- Customer PC or Laptop

How It Works

1. The ISHK-B Bow Type Crosby™ Submersible Load Shackle Load Cell is attached to the floating wind turbine's mooring line.
2. The ISHK-B Bow Type Crosby™ Submersible Load Shackle Load Cell captures force tension of the mooring line.
3. Force results are sent to the customer's instrumentation for monitoring.