



case study

Structural health monitoring for Asian offshore wind farm

With a customer requiring a system to monitor jacket and tower performance, James Fisher designed and supplied an integrated structural health monitoring solution for offshore wind assets.

South China Sea

2020 -2026

55

offshore wind assets

1

substation

Customer challenge

Our customer required a robust structural health monitoring system for offshore wind assets in a challenging marine environment with adverse weather. This project necessitated local content provision and integration with onshore systems, combining James Fisher's global expertise with precise local delivery.

Solution for our customer

James Fisher designed a customised monitoring system with inclinometers, accelerometers, strain gauges and corrosion reference cells providing a holistic view of asset health. This was integrated with Mandarin-language software and a local server to enable real-time data reporting.

“ This project demonstrated how global experience in structural monitoring could be successfully delivered at a local level, creating a bespoke package to empower intelligent decisions based on comprehensive asset integrity data.

DAMIAN GRIFFITHS, REGIONAL MANAGER,
JAMES FISHER & SONS PLC

”

Customer impact

- Enabled integrated, real-time remote monitoring of 55 offshore assets and one substation
- System integrated into bespoke, Mandarin-language software platform with alarm and monitoring capabilities
- Enhanced asset integrity intelligence through real-time structural data
- Cost savings delivered through reduced in-person inspection and mobilisation requirements to offshore assets