



case study

World-first 10m diameter wind turbine monopile severance

James Fisher completed the world's first abrasive cut on a 10m-diameter offshore wind turbine monopile, on behalf of an international energy operator.

Offshore windfarm

2025

10 m

diameter monopile cut

1

One pass, one cut

Customer challenge

An offshore wind operator identified a flaw in the foundation of a 10m diameter monopile after installation. With no proven method to safely sever this large structure, they faced a significant challenge in safely removing it while minimising downtime and reducing environmental impact.

Solution for our customer

James Fisher designed, built, tested and deployed a bespoke external abrasive cutting tool – the first of its kind capable of tackling monopiles of this scale. The tool was deployed subsea to complete an abrasive waterjet cut in one pass.

“ By applying our decommissioning expertise and innovation within offshore wind, we've shown that large-scale decommissioning can be done safely, efficiently and with the environment front of mind.

MARK STEPHEN, PRODUCT LINE DIRECTOR,
(DECOMMISSIONING),
JAMES FISHER & SONS PLC

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Customer impact

- Safe and rapid removal of the flawed monopile, enabling recovery to the vessel deck without incident
- Reduced environmental impact thanks to shorter operational timeframe
- Cost efficiency through a purpose-built tool which avoided the need for multiple interventions
- This approach combined the efficiency and reliability developed through decades of oil and gas projects with innovation tailored to offshore wind's unique demands