

Submarine cable damage at offshore wind farm

INDUSTRY

Renewable Energy

LOCATION

North Asia

SERVICE AREA

Power loss & submarine cable damage

CHALLENGE

The collection line of an offshore wind farm tripped, disconnecting seven wind turbines from the grid. Investigation indicated that the outage was likely caused by a vessel anchoring within the wind farm area, resulting in anchor interference with and damage to the submarine power cable. This incident led to an unexpected shutdown and associated power loss. The primary challenges were accurately locating the damaged submarine cable in an offshore environment and executing repairs within narrow weather conditions. Given the operational complexity of subsea works, prompt action was critical to minimize downtime, expedite repairs and reduce power loss.

SOLUTION

To locate the damaged submarine cable quickly, we reviewed original construction drawings and route maps with the Insured and the original cable installation contractor. Offshore measurements were carried out to confirm the cable's exact position. Weather and wind forecast were monitored closely to identify suitable repair windows helping to minimize operational risk. With proactive coordination with the Insured and subsea cable repair contractors, we supported the cost-effective and optimal technical repair solution. The damaged cable was salvaged and repaired efficiently in line with insurer expectations, helping to limit potential prolonged business interruption losses.

RESULTS

- **Effective coordination** helped minimize business interruption exposure
- Timely response helped prevent prolonged wind farm shutdown

Disclaimer: Case studies are illustrative examples; outcomes depend on specific circumstances and may vary.