CASE STUDY

Lead logistics partner - offshore wind

An update on the integrated logistics services Peterson Energies is delivering for the Sofia Offshore Wind Farm.



TRUST WELL PLACED

PETERSON

PROJECT DETAILS

Start	September 2024
End	Ongoing
Location	Southern North Sea

CHALLENGE

Delivery of the lead logistics scope for the Sofia Offshore Wind Farm, part of one of the largest wind farm developments in the world.

SOLUTION

Development of a customised, multi-location logistics strategy (including innovation in helicopter accessibility) to optimise the efficiency of operations.

RESULTS

The project has kicked off with success, resulting in cost savings of up to 60% per shared cargo voyage, significant CO2 savings, and streamlined operations for the client.



This case study provides a reflection of progress on the scope of work Peterson Energies is carrying out for the Sofia Offshore Wind Farm project in the Southern North Sea on behalf of its client GE Vernova.

The project to date has been driven by a collaborative approach between Peterson Energies and GE Vernova, utilising Peterson's integrated, turnkey logistics solutions – covering marine, aviation, warehousing, road, and customs.

IMPLEMENTATION & ADJUSTMENTS

At the outset of the project, Peterson developed a customised, multi-location logistics strategy tailored to optimise operations between the UK and mainland Europe. Notable highlights include:

- **UK-NL supply chain :** Using logistics hubs in **Den Helder and Lowestoft**, Peterson linked UK and Dutch operations for smoother coordination, reduced lead times and access to regional suppliers and talent.
- **Multi-base flight routes:** Flights geographically spread from **Den Helder, Norwich and Humberside** improved crew mobilisation, cut travel time and reduced delays during peak activity.
- **Workforce continuity:** A focused retention strategy to support project stability kept key subcontractors in place, maintaining operational momentum with experienced personnel.
- **Adaptable procurement:** Peterson's agile procurement system enabled fast sourcing and delivery during tight operational windows, supporting uninterrupted offshore progress.
- **Emergency preparedness:** An initial short-term **Emergency Response Rescue Vessel (ERRV)** contract was expanded to a **13-month agreement**, providing consistent emergency coverage and enhancing offshore safety.
- **Helicopter capacity challenges:**
  - **Availability**
    To tackle availability issues, Peterson secured backup agreements, ensuring reliable offshore crew rotations even in high-demand periods.
  - **Wind restrictions**
    In areas with site-specific wind limits (e.g. 20-knot thresholds), Peterson is working with aviation partners on detailed evaluations, including simulations and risk modelling, to develop safe, location-specific procedures.

MEASURED IMPACT

As the partnership progresses, measurable outcomes underscore the effectiveness of Peterson's approach:

- **Cost savings:** Shared cargo via the SNS Pool cut logistics costs by

up to 60% per voyage, shielding GE Vernova from volatile spot rates.

- **Sustainability:** By consolidating cargo runs, the shared model has significantly lowered CO_2 emissions, contributing to GE Vernova's sustainability goals.
- **Efficiency:** Simplified coordination reduced admin and freed up internal teams for core tasks.

Built-in safety
Peterson puts safety at the heart of offshore logistics:

- ERRV coverage extended from 15 days to 13 months.
- Backup helicopter capacity secured for peak periods.
- Safety-first mindset embedded in all planning and operations.

Result: Fewer disruptions, faster response, and a safer offshore environment.

KEY TAKEAWAYS & LEARNINGS

Over the past year, Peterson has made critical adjustments to ensure continued success:

- **Proactive problem-solving:** Rapid response to ERRV, helicopter, and weather-related challenges.
- **Seamless integration:** One provider for marine, aviation, warehousing, road, and workforce logistics.
- **Consistent talent:** Reliable field staff with deep offshore expertise.
- **Sustainability impact:** Reduced emissions and greater logistical efficiency.

WHAT'S NEXT?

Peterson will continue evolving its offshore wind offering with a focus on resilience, innovation and sustainability. Key priorities include:

- Enhancing **helicopter access** in challenging weather.
- **Shared-logistics:** Expanding the SNS Pool model.
- **Maximising integrated logistics:** Further innovation in backup systems and scheduling.
- Leading **cross-border port collaborations** to strengthen international energy logistics.

As our partnership with GE Vernova grows, we stay focused on innovation, excellence, and sustainability to drive the offshore wind farm's success.

> "Our partnership with GE Vernova exemplifies how integrated logistics and proactive innovation drive real impact in offshore energy projects.
>
> By addressing challenges like helicopter access and optimising shared cargo strategies, Peterson is not just delivering solutions—we're shaping the future of offshore logistics."
>
> Steef Ritzema,
> Chief Operating Officer at Peterson Energies



LOGISTICS ACROSS BORDERS: UK & NL CORRIDOR

Peterson created seamless cross-border coordination between Den Helder and Lowestoft which:

- Boosted scheduling flexibility
- Minimised delivery delays
- Tapped into skilled labor and supplier networks
- Increased resilience

Result: A responsive, cost-efficient logistics model proving the value of UK-Dutch integration in offshore wind.


MGW 12710KG
TARE 2710KG
PAYLOAD 10000KG


MD-860




PETERSON