Wind Farm Jack-up Vessel
Main Crane Feasibility Studies

SHLC de-risks installation and major-component campaigns before a jack-up is chartered. We match vessel, main crane and quay to the turbine package — so hook height, outreach, SWL, crane condition, berth capacity and weather windows are proven, not assumed.

STANDARDS APPLIED

DNV-ST-N001 · DNV-OS-H205 / marine operations · DNV class rules for jack-ups & lifting appliances · ISO 19905-1 · LOLER / PUWER · BS 7121 · MCA / flag · OEUK guidance

KEY AREAS ASSESSED PRIOR TO CHARTER

Main crane capability

Hook height, outreach and SWL at working radius; boom / jib configuration; dynamic factors vs WTG, foundation and MCE loads; slew and boom-clearance envelopes.

Quay, berth & load-out

Quay wall and apron capacity, berth pocket and under-keel, fendering, crane outreach to quay, load-out path, ground bearing and interface with port cranage.

Crane condition assessment

Independent review of the main crane before charter: defects, overdue NDT, wire and sheave wear, slew and boom fatigue, control faults and class / LOLER gaps that can halt the campaign once the vessel is on hire.

Deck, cargo & sea-fastening

Component layout, deck strength, grillage and sea-fastening so the chosen unit can actually carry and restrain the package in transit and on station.

Operability & weather

Elevated and transit limits, crane operability curves, jacking windows and campaign-duration risk against site metocean.

Assurance & legislation

DNV and class alignment, LOLER / PUWER / ACOP, third-party review, technical authority and gap analysis before mobilisation.

WHY COMMISSION THIS FIRST

- Avoid chartering a unit that cannot make hook height or SWL at the required radius — or cannot work the quay.
- Expose crane defects, overdue inspections and class gaps before hire — not after the campaign has started.
- Give owners, insurers and marine warranty surveyors a defensible SSA and lift pack.
- Compress campaign time: the right vessel, the right crane, the right berth, the right weather window.
- Supported numerous offshore wind projects spanning UK, EU and APAC regions through lifting management and technical expertise.

SUMMIT HEAVY LIFT CONSULTANTS LTD
Company No. 13834301 · Peak Lifting Performance
info@summitheavylift.com | 020 805 03808 | www.summitheavy-lift.com
London office: Suite G04, 1 Quality Court, Chancery Lane, London WC2A 1HR
Registered office: Enterprise House, The Courtyard, Old Court House Road, Bromborough, Wirral CH62 4AB

COMMISSION A FEASIBILITY STUDY