EXECUTIVE SUMMARY

Impact of the Middle East Conflict on the Offshore Low Carbon Energy Sector Worldwide

Revised Edition — 16 March 2026 (Day 16 of Conflict)

Prepared for

Senior Executives — North East Scotland Energy Supply Sector

Sources

IEA | Wood Mackenzie | WindEurope | RenewableUK | GWEC

Prepared by

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Overview

The Iran war, which began on 28 February 2026 with US–Israeli airstrikes on Iranian nuclear installations, has escalated into the most severe global energy supply disruption in history. On 12 March, the International Energy Agency (IEA) confirmed that global oil supply is projected to plunge by 8 million barrels per day (b/d) in March alone, with Middle East Gulf countries cutting total oil production by at least 10 million b/d — nearly 10% of world demand. The IEA has authorised a record release of 400 million barrels from strategic stockpiles to stabilise markets.[1][2][3][4]

For the offshore low carbon energy sector, this crisis represents an unprecedented strategic inflection point. Offshore wind has been reclassified in European and Asian policy frameworks from a discretionary climate project to mandatory national security infrastructure. The report analyses seven interconnected impact areas with actionable recommendations for the North East Scotland energy supply sector.[5][6][7]

1. Energy Market Disruption: Historic Scale

The Strait of Hormuz — through which 20% of globally traded oil and nearly 20% of global LNG normally flows — has been effectively closed since early March. The consequences are cascading across the global economy:[2][4][8]

- Brent crude has surged past $110/barrel (from $70 pre-conflict), representing a 57% increase in under three weeks.[9][10]
- QatarEnergy declared force majeure on LNG contracts from Ras Laffan, removing approximately 20% of global LNG supply.[11][12]
- Saudi Aramco suspended operations at the Ras Tanura refinery and export terminal (550,000 b/d capacity) following Iranian drone strikes.[13][11]
- On 16 March, Saudi Arabia intercepted 37 Iranian drones over its eastern region, marking the direct expansion of hostilities to Gulf Cooperation Council territory.[14]
- Wood Mackenzie warns that if the Strait remains closed, Asian refineries could be forced to cut crude runs by approximately 6.0 million b/d in April, with India facing the most severe pressure due to 80%+ dependency on Middle Eastern crude.[15]

The IEA has stated explicitly that shut-in upstream production will take "weeks and, in some cases, months" to return to pre-crisis levels, meaning that the energy disruption will outlast the military conflict itself.[12][2]

2. The Strategic Case for Offshore Wind: Transformed

The crisis has fundamentally altered the political and economic calculus for offshore wind investment worldwide. Three forces converge to create unprecedented momentum:

2.1 Political commitment at scale

At the North Sea Summit on 26 January 2026, seven Heads of State and Government plus nine Energy Ministers signed the Hamburg Investment Pact, committing to 300 GW of offshore wind in the North Seas by 2050, with 15 GW deployed annually over 2031–2040. The industry, in return, pledged cost reductions, 91,000 additional jobs, and generating €1 trillion of economic activity. WindEurope CEO Malgos Bartos described this as "the most effective response to skeptics regarding Europe's ability to provide secure, affordable, homegrown energy".[6][16][5]

The conflict has given this commitment an urgency that did not exist when it was signed just seven weeks ago. European policymakers now frame offshore wind explicitly as energy security infrastructure, not merely a climate tool. The EU's Industrial Accelerator Act, proposed in early March, further aims to strengthen European manufacturing resilience in clean technologies.[17][18][19][20][21]

2.2 Economic advantage over fossil fuels strengthened

With Brent at $110+ and European gas futures up more than 20%, the relative economics of offshore wind have improved dramatically. Long-term contracted offshore wind power at £50–73/MWh (UK CfD strike prices) is now substantially cheaper than gas-fired generation at current spot prices. This price differential makes the investment case for offshore wind self-evident to corporate energy buyers and governments alike.[10][22][9]

2.3 Global pipeline robust and growing

The global offshore wind pipeline now stands at approximately 89.2 GW installed, with 1,565 projects tracked across 49 countries and 236 GW forecast operational by 2030. The UK holds the world's second-largest pipeline at 96 GW across 123 projects, behind only China (247 GW across 437 projects). Record capacity of 56.3 GW was awarded globally in 2024, and GWEC forecasts average annual growth of 8.8% through 2030.[23][24][25]

3. Supply Chain: Disruption and Restructuring

3.1 Logistics under severe strain

The conflict has compounded existing supply chain pressures. Shipping routes through the Strait of Hormuz and Red Sea are effectively closed or high-risk, forcing rerouting via the Cape of Good Hope and adding 30–50% to freight costs. War risk insurance premiums have increased by over 300%, and at least 12 merchant vessels have been struck in Gulf waters. Over 20,000 seafarers remain trapped aboard vessels unable to transit the conflict zone.[8][26][27]

For offshore wind projects, this means longer lead times and higher costs for turbines, foundations, cables, and installation vessels — particularly for projects relying on components manufactured in or transiting through the Middle East and Asia.[7][28][29]

3.2 European port and manufacturing capacity gap

WindEurope warned on 4 March that Europe needs stronger ports and shipyards to deliver its offshore wind ambitions, noting that current infrastructure is insufficient for the scale of deployment now being planned. The Hamburg Investment Pact explicitly commits governments to supporting port infrastructure and vessel investment as part of the offshore wind buildout.[5][7]

3.3 China’s growing market share

Chinese offshore wind manufacturers have capitalised on European supply chain strain and delivery urgency. Major contract wins include Dajin Heavy Industry supplying 40 foundation units for Germany's 900 MW Nordseecluster B project, Mingyang Smart Energy investing £1.5 billion in a UK manufacturing base with 5 GW+ overseas orders, and Tianshun Wind Energy establishing European monopile production at 500,000 tonnes annual capacity. This creates a strategic dilemma: Chinese suppliers accelerate deployment but increase geopolitical dependency on a single manufacturing base.[30][31]

3.4 Middle East fabrication at risk

The UAE has emerged as a significant fabrication hub for European offshore wind platforms and converter stations (Vanguard West/East, BorWin 6, BalWin 3, LanWin 2/4, Ostwind 4), leveraging decades of oil and gas expertise. The expansion of hostilities to Gulf state territory — evidenced by the 16 March drone attacks on Saudi Arabia — now places this fabrication capacity at direct risk, potentially creating further bottlenecks for European project delivery.[32][14]

4. Regional Impact Analysis

4.1 Europe and UK: accelerating deployment

Europe is at the centre of the energy security response. The UK targets 43+ GW of offshore wind by 2030 and currently employs over 40,000 people across the sector. RWE has confirmed a major Vestas turbine contract for Vanguard East off Norfolk, with Final Investment Decision (FID) planned for summer 2026 — demonstrating that UK developers are pressing ahead despite the crisis. The UK's Pentland floating wind project secured a CfD in the AR7 allocation round, reinforcing Scotland's floating wind leadership.[33][34][35]

European FID timelines have accelerated by an estimated 12–18 months as geopolitical imperatives override previous hesitancy. Projects previously considered "optional" are now deemed "mandatory" with delivery described as "non-negotiable."[31][30]

4.2 Asia-Pacific: acute vulnerability driving action

Asia imports 65% of its crude oil from the Middle East — the highest dependency globally — with Saudi Arabia, Iraq and the UAE as the top three suppliers. India is most acutely exposed, with Middle East crude dependency exceeding 80% of total imports and among the lowest emergency stockpile levels in the region. This vulnerability is driving stronger policy support for domestic renewables including offshore wind in China, Japan, South Korea, Taiwan, and emerging Southeast Asian markets.[36][37][38][15]

4.3 Middle East: paradoxical transformation

The region holds an estimated 1,400 GW of offshore wind potential. Before the conflict, Saudi Arabia, the UAE, and Oman were actively developing offshore wind linked to green hydrogen strategies, with Oman targeting 1 million tonnes/year of renewable hydrogen by 2030. The conflict delays local deployment in contested areas but paradoxically intensifies the long-term economic imperative to diversify away from hydrocarbon dependency. Some Gulf states are reviewing sovereign investment portfolios and may redirect capital toward global renewables in more stable jurisdictions.[39][40][41][42][43][44]

4.4 United States: policy divergence

The US offshore wind market remains constrained by the Trump administration's opposition, with five major East Coast projects suspended in December 2025 and New York cancelling its fifth offshore wind solicitation in February 2026. This creates a sharp transatlantic divergence: Europe accelerating while the US stalls. The global consequence is rebalancing of investment, manufacturing capacity, and expertise toward Europe, Asia, and the Middle East.[45][46]

5. Revised Scenario Analysis

The original report's scenario probabilities require fundamental recalibration. What was previously assessed as the "pessimistic escalation" scenario (15% probability) has effectively materialised as reality.

Scenario	Probability	Key Parameters
Prolonged severe disruption (New base case)	55%	Conflict 2–6 months; Hormuz restricted; oil $100–120/bbl; IEA releases 400m bbl; offshore wind +20–30% above projections; Chinese manufacturers capture 35–40% of European supply[4][2][5]
Rapid de-escalation	20%	Diplomatic resolution by Q3 2026; Hormuz reopens; oil $80–90/bbl; Hamburg Pact commitments remain; energy security rationale permanent
Further escalation	25%	Additional state actors drawn in; Hormuz closure >12 months; oil >$140/bbl; global recession; offshore wind designated "critical security infrastructure" with government-guaranteed financing[14]

6. North East Scotland: Strategic Opportunity

The North East Scotland energy supply sector is exceptionally well-positioned to benefit from this crisis-driven acceleration:

- Offshore engineering heritage directly transferable from oil and gas to offshore wind — mirroring the UAE's successful fabrication pivot.[47][48][32]
- ScotWind pipeline of 25+ GW creating substantial domestic demand, with up to 40 GW in the total Scottish project pipeline.[49]
- Floating wind leadership through projects like Pentland (CfD secured January 2026), Green Volt (planning consent received), and the Cromarty/Moray Firths cluster.[35][50][51]
- Port infrastructure at Aberdeen, Dundee, Nigg, and Ardersier suitable for turbine assembly, foundation fabrication, and O&M services.
- Strategic security positioning: Scottish supply chain capabilities represent a geopolitically secure alternative to Middle East fabrication (now under direct military threat) and Chinese manufacturing (subject to growing policy scrutiny).

The UK Offshore Wind Sector Deal targets £2.6 billion per annum in exports by 2030, with European markets projected to add 32 GW from 2026–2030 beyond UK domestic deployment. The Hamburg Investment Pact's commitment to 15 GW annual deployment across the North Seas from 2031–2040 creates a multi-decade demand signal.[48][5]

7. Key Risks

Despite the strengthened strategic case, five interconnected risks require active management:

- Inflation and interest rates: Oil at $110+ could trigger sustained inflation, raising the cost of capital for offshore wind projects despite their improved relative economics.[52][53]
- Supply chain bottleneck escalation: Loss of Middle East fabrication capacity combined with European manufacturing shortfalls could create critical delivery delays.[7][14]
- Geopolitical supply chain concentration: Growing reliance on Chinese manufacturers introduces new strategic vulnerabilities.[25][54][31]
- Physical security of offshore assets: The conflict raises awareness of vulnerability of offshore energy infrastructure to hybrid threats, cyber-attacks, and state-sponsored disruption.[55][56][45]
- Policy whiplash risk: Rapid de-escalation could reduce political urgency, though the Hamburg Pact's binding commitments mitigate this.[5]

8. Strategic Recommendations

For senior executives in the North East energy supply sector, the report recommends seven priority actions:

1. Reframe all business cases around energy security, price stability, and supply resilience — not just decarbonisation.[18][20][17]
2. Accelerate supply chain positioning to capture European and Asian demand before manufacturing capacity consolidates around Chinese and Middle Eastern competitors.[7][5]
3. Invest in floating wind manufacturing capabilities — Scotland's competitive advantage in deep-water technology becomes more valuable as shallow-water sites fill and Middle East projects are delayed.[50][51][35]
4. Develop strategic partnerships with both European developers (RWE, Ørsted, Vattenfall) and Asian manufacturers seeking secure European production bases.[34][30][31]
5. Integrate green hydrogen into offshore wind propositions — the conflict strengthens the case for offshore wind-powered hydrogen as an exportable, storable, and strategically secure energy product.[42][57][58]
6. Strengthen security and resilience planning for offshore operations, including cyber-security, maritime protection, and subsea infrastructure security.[56][55]
7. Engage proactively with UK and Scottish Government to ensure North East Scotland is central to the national energy security strategy and captures manufacturing, assembly, and O&M investment from the €1 trillion North Sea commitment.[6][5]

Conclusion

The Middle East conflict has created the largest energy supply disruption in history and fundamentally altered the strategic landscape for offshore low carbon energy. What was previously an important but often politically contested sector has been elevated to the status of critical national security infrastructure across Europe and Asia. The €1 trillion North Sea Investment Pact, accelerated FID timelines, and record global pipeline of 89.2 GW installed capacity provide concrete evidence that this strategic reframing is translating into investment commitments.[24][23][5]

For the North East Scotland energy supply sector, the convergence of domestic pipeline strength (40 GW), floating wind leadership, transferable offshore expertise, and a newly urgent European demand signal creates a window of strategic opportunity that may not recur. The businesses and organisations that move decisively now — reframing value propositions around energy security, building partnerships across the global supply chain, and investing in manufacturing capacity — will be best positioned to capture the multi-decade growth trajectory that this crisis has accelerated.

Report prepared for senior executives in the North East Energy Supply Sector. Updated 16 March 2026 reflecting conflict developments through Day 16. Sources include IEA, Wood Mackenzie, WindEurope, RenewableUK, GWEC, and specialist offshore wind industry publications.

Prepared by Export Central AI

References

[1] https://www.reuters.com/business/energy/world-faces-largest-ever-oil-supply-disruption-middl...
[2] https://cyprus-mail.com/2026/03/12/world-faces-largest-ever-oil-supply-disruption-on-middle-...
[3] https://www.mexc.com/news/911768
[4] https://www.aa.com.tr/en/energy/oil/middle-east-tensions-threaten-biggest-oil-supply-disrupt...
[5] https://windeurope.org/news/north-sea-summit-investment-pact-to-mobilise-e1tn-in-offshore-wi...
[6] https://www.theguardian.com/environment/2026/jan/26/uk-among-10-countries-to-build-100gw-win...
[7] https://windeurope.org/news/europe-needs-stronger-ports-and-shipyards-to-deliver-its-offshor...
[8] https://en.wikipedia.org/wiki/2026_Strait_of_Hormuz_crisis
[9] https://en.wikipedia.org/wiki/Economic_impact_of_the_2026_Iran_war
[10] https://www.reuters.com/business/energy/oil-extends-gains-middle-east-conflict-threatens-exp...
[11] https://www.aljazeera.com/news/2026/3/8/iran-war-threatens-prolonged-impact-on-energy-market...
[12] https://fortune.com/2026/03/13/middle-east-energy-crisis-could-outlast-the-iran-war/
[13] https://acleddata.com/report/iran-targets-global-oil-market-gulf-energy-and-strait-hormuz-ar...
[14] https://timesofindia.indiatimes.com/videos/international/saudi-kuwait-uae-battle-drone-missi...
[15] https://www.woodmac.com/press-releases/me-conflicts_asia-crude-oils/
[16] https://www.offshorewind.biz/2026/01/26/mobilising-eur-1-trillion-in-investments-north-sea-c...
[17] https://www.reneweuropegroup.eu/news/2026-03-06/energy-prices-middle-east-tensions-show-why-...
[18] https://www.aldeparty.eu/blog/news-11/middle-east-tensions-show-why-europe-must-accelerate-e...
[19] https://www.aa.com.tr/en/europe/iran-war-shock-puts-europe-s-energy-autonomy-dilemma-back-in...
[20] https://www.cleanenergywire.org/news/geopolitical-tensions-sharpen-case-offshore-wind-uk-amb...
[21] https://windeurope.org/news/industrial-accelerator-act-will-strengthen-europes-economic-resi...
[22] https://www.bruegel.org/first-glance/how-will-iran-conflict-hit-european-energy-markets
[23] https://www.solarpowerportal.co.uk/energy-policy/uk-offshore-wind-pipeline-hits-96gw-world-s...
[24] https://www.renewableuk.com/energypulse/reports/global-offshore-wind-pipeline-march-2026/
[25] https://www.offshore-windindustry.com/news/wind/article-6961-china-dominates-global-wind-mar...
[26] https://www.environmentenergyleader.com/stories/gulf-port-disruptions-are-sending-shockwaves...
[27] https://logisticsbusiness.com/transport-distribution/ports-maritime/middle-east-conflict-con...
[28] https://www.woodmac.com/news/opinion/wind-supply-chain-financials-decoded-colliding-margins-...
[29] https://montel.energy/resources/blog/offshore-wind-supply-chain-constraints-what-investors-n...
[30] https://www.moomoo.com/news/post/66587374/amid-middle-east-conflicts-orders-for-chinese-wind...
[31] https://news.futunn.com/en/ja/post/69802915/amid-middle-east-conflicts-orders-for-chinese-wi...
[32] https://www.nesfircroft.com/resources/blog/what-role-is-the-middle-east-playing-in-the-globa...
[33] https://www.renewableuk.com/our-work/offshore-wind/
[34] https://www.offshore-windindustry.com/news/wind/article-7284-vestas-secures-another-mega-ord...
[35] https://www.offshorewindscotland.org.uk/news/2026/january/14/pentland-floating-wind-project-...
[36] https://midasanalytics.ai/market-pulse/asia-energy-crisis-mideast-conflict-boosts-wind-power...
[37] https://mecouncil.org/publication/asia-and-the-iran-conflict-energy-vulnerability-and-the-im...
[38] https://www.gwec.net/wind-energy-security-tracker
[39] https://www.world-energy.org/article/43068.html
[40] https://agsi.org/analysis/solar-and-wind-energy-driving-the-middle-easts-energy-transition/
[41] https://www.nesfircroft.com/resources/blog/future-trends-in-the-wind-energy-industry-in-the-...
[42] https://www.kapsarc.org/research/publications/the-economics-of-offshore-wind-based-hydrogen-...
[43] https://www.reuters.com/world/middle-east/some-gulf-states-reviewing-sovereign-investments-o...
[44] https://oilprice.com/Energy/Energy-General/Six-Global-Energy-Trends-Shaping-the-Middle-East-...
[45] https://www.reuters.com/business/energy/us-pausing-five-offshore-wind-projects-over-national...
[46] https://www.renewableenergyworld.com/wind-power/offshore/new-york-points-the-finger-at-the-f...
[47] https://www.offshorewindscotland.org.uk/media/12632/repurposing-oil-and-gas-infrastructure-r...
[48] https://www.offshorewindscotland.org.uk/media/12628/sowec-guide-for-scottish-exporters.pdf
[49] https://www.offshorewindscotland.org.uk/media/r3rp3du2/sowec-innovation-guide-january-2025.pdf
[50] https://www.offshorewindscotland.org.uk/news/2024/april/22/green-volt-largest-commercial-flo...
[51] https://www.offshorewindscotland.org.uk/media/13289/hpo-floating-offshore-wind-manufacturing...
[52] https://ifs.org.uk/articles/what-does-war-middle-east-mean-energy-prices-and-how-could-gover...
[53] https://www.chathamhouse.org/2026/03/us-energy-prices-were-set-rise-long-iran-war
[54] https://kpmg.com/xx/en/our-insights/risk-and-regulation/top-risks-forecast/energy.html
[55] https://www.amnesty.org/en/latest/news/2026/03/middle-east-all-parties-to-the-conflict-must-...
[56] https://www.spglobal.com/energy/en/news-research/latest-news/electric-power/122225-us-interi...
[57] https://breakbulk.com/articles/middle-east-hopes-hang-on-hydrogen
[58] https://www.sciencedirect.com/science/article/pii/S1364032124000431
[59] https://www.woodmac.com/reports/upstream-oil-and-gas-global-oil-supply-short-term-update-mar...