



Poland: Emerging Low-Carbon Energy Market Intelligence Report

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For: ExportCentral AI: North East Energy Supply Sector

Geographic Focus: Poland Baltic Sea Region

Report Period Covered: December 2025 – December 2032 (Project Timeline)

Executive Summary

A detailed and comprehensive Market Intelligence Report on Poland's emerging offshore energy market with a focus on identifying potential business opportunities for North East Scotland energy supply chain companies.

The report covers:

- Poland's 3.4 GW 2025 offshore wind auction outcome and 18 GW trajectory through 2040
- Detailed supply chain opportunity analysis across six capability areas (surveys, foundations, cables, substations, vessels, OM) with €2.5–4.0B total addressable market
- Three proven market entry models (joint ventures, subcontracting, technology licensing)
- Business development action plan with specific developer contacts and timelines
- Risk assessment and mitigation strategies
- Long-term strategic opportunities in hydrogen infrastructure and workforce development

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Report Background

Poland's first competitive offshore wind auction, concluded December 17, 2025, marks a historic inflection point for the country's energy transition and creates major opportunities for North East Scotland offshore energy companies.

The 3.4 GW auction outcome signals Poland's emergence as a tier-1 European offshore wind market with systematic policy support, long-term infrastructure visibility, and explicit supply chain localization targets favouring international partnerships.

Key Findings

Market Scale and Timeline:

- 3.4 GW awarded in December 2025 auction (largest single allocation in Europe during 2025)
- All three projects commence first power delivery December 2032
- Poland's trajectory toward 18 GW by 2040 and potentially 30+ GW by 2050
- Estimated €6–8 billion in immediate investment (2026–2032)
- Planned auctions: 2027, 2029, 2031 (multi-decade pipeline visibility)

Strategic Advantages for Scottish Suppliers:

- 40%+ Polish supply chain requirement creates partnership pathways (not direct competition)
- 25-year Contracts for Difference with inflation-indexed strike prices (€113–117/MWh) provide developer certainty
- Baltic Sea geography proximate to North Sea supply chain (shared logistics, port infrastructure, skilled workforce)
- 18–24-month window through mid-2027 is critical for partnership formation before supply chains mature
- Three tier-1 international developers (ORLEN Neptun, PGE, RWE-Polenergia-Equinor) with established UK/North Sea relationships
- Scottish firms can capture €150–300M (6–8% of capex) through strategic positioning in niche services (mooring systems, subsea engineering, crew training, OM support)
- Long-term OM contracts (30-year revenue streams) ideal for anchoring supply chain presence

Immediate Business Opportunities (2026–2032):

With a total addressable market of €2.5–4.0 billion (2026–2050) across the 3.4 GW pipeline, and with exponential scaling through 2027–2031 auction rounds targeting 18 GW, immediate business opportunities exist in a number of areas including the following: Geotechnical & Environmental Surveys; Foundation Manufacturing;

Subsea Cable Supply & Installation; Offshore Substations (HVAC/HVDC);
Installation Vessel Services; Operations & Maintenance Services

| Capability Area | Estimated Demand | Commercial Timeline |
|--------------------------------------|---|---------------------------------------|
| Geotechnical & Environmental Surveys | €40–60M | 2026–2027 (site characterization) |
| Foundation Manufacturing | €800M–1.2B (100–120 monopiles/jackets) | 2027–2030 (fabrication & logistics) |
| Subsea Cable Supply & Installation | €300–500M (inter-array + export cables) | 2027–2031 (cable laying) |
| Offshore Substations (HVAC/HVDC) | €150–250M | 2028–2031 (platform engineering) |
| Installation Vessel Services | €400–600M | 2029–2032 (jack-up, heavy-lift, CTVs) |
| Operations & Maintenance Services | €200–300M+ (30-year lifecycle) | 2033+ (long-term contracts) |

Section 1: Poland's Energy Transition Context and Policy Framework

1.1 Historical Backdrop: Coal-to-Renewables Pivot

Poland's energy system has historically been coal-dependent, with coal supplying approximately 70% of electricity in 2020. The country's commitment to EU climate targets - 55% emissions reduction by 2030 and climate neutrality by 2050 - requires rapid energy system transformation.

Key Policy Drivers:

- European Green Deal Compliance** – Poland must align with EU's 42.5% renewable energy target by 2030 and cross-border climate accountability mechanisms.
- Energy Security Diversification** – Offshore wind reduces energy import dependency and mitigates geopolitical supply chain risks.
- Coal Phase-Out Timeline** – Poland plans to retire coal generation capacity, creating 20+ GW capacity replacement requirement by 2040.
- Industrial Decarbonization** – Offshore wind-powered hydrogen and electrification infrastructure essential for steel, chemicals, cement sectors.

1.2 Offshore Wind Policy Framework: 25-Year Visibility

Poland's offshore wind regulatory architecture provides structural advantages compared to other emerging European markets:

Contracts for Difference (CfD) Scheme:

- 25-year fixed support period (longer than Ireland 20 years, France 20 years, Germany CfD terms)
- Two-sided CfD mechanism: developers receive floor price protection if market prices fall; revenue sharing if prices exceed caps
- Inflation-indexed annual adjustments (addresses 2023–2025 cost inflation challenges that derailed projects in Germany and France)
- Strike price range €113–117/MWh (approximately PLN 476–492/MWh)
- First electricity delivery: December 2032 (clear milestone with seven-year development window)

Auction Schedule Certainty:

- 2025 Auction: 3.4 GW awarded (ORLEN Neptun Baltic East 900 MW, PGE Baltica 9 975 MW, RWE-Polenergia-Equinor Baltyk I 1,560 MW)
- 2027 Auction: Additional capacity (timeline confirmed; quantity expected 3–5 GW)
- 2029 Auction: Sustained pipeline
- 2031 Auction: Final round toward 18 GW by 2040 target
- Total planned capacity through 2040: 18 GW (potentially exceeding 30 GW by 2050)

Supply Chain Localization Requirements:

Poland explicitly mandates 40%+ Polish supply chain content, creating structural advantages for international partnerships:

- International firms must partner with Polish companies (joint ventures, supply agreements)
- Domestic capability development in coastal regions (Gdańsk, Gdynia, Łeba) prioritized
- Technology transfer expected as condition of market participation
- Port infrastructure, fabrication facilities, and OM bases strategically developed

1.3 Developer Landscape: Tier-1 International Partners with North Sea Credentials

All three auction winners have established North Sea presence and global offshore wind experience, creating natural pathways for Scottish supplier engagement:

ORLEN Neptun (Baltic East, 900 MW):

- ORLEN: Poland's state-controlled energy champion; transition from oil/gas to renewables
- Joint venture: ORLEN Neptun VIII
- Strike price: €113/MWh (most competitive)
- Capacity: 900 MW
- Technology: 15 MW turbines (Siemens Gamesa SG 15-222 SD; final confirmation pending)
- First power: December 2032
- OM base: Łeba (Poland's first dedicated offshore wind OM facility, operational 2026)

PGE Polska Grupa Energetyczna (Baltica 9, 975 MW):

- Poland's largest energy utility; strategic pivot from coal to renewables
- Acquired RWE's FEW Baltic II (350 MW) project to consolidate 1.3 GW complex (Baltica 9 + FEW Baltic II combined)
- Strike price: €117/MWh
- Capacity: 975 MW (with option to integrate FEW Baltic II 350 MW acquired Q1 2026)
- Technology: Siemens Gamesa turbines
- First power: December 2032
- Strategy: Consolidation demonstrates pragmatism; co-development enables cost efficiency through shared logistics and construction staging

RWE + Polenergia + Equinor Consortium (Bałtyk I, 1,560 MW):

- RWE: German utility with extensive North Sea and Baltic experience (German offshore wind operator)
- Polenergia: Polish private energy company; previous operator of Baltic II, Baltic III projects
- Equinor: Norwegian state-controlled energy company; global offshore wind leader (UK, Denmark, US, Asia presence)
- Strike price: €117/MWh (highest bidder; reflects market entry risk but secured 1.56 GW capacity)

- Capacity: 1,560 MW (largest single project in 2025 auction)
- Technology: 15–16 MW turbines (pending confirmation)
- First power: December 2032
- Strategy: Polenergia-Equinor partnership demonstrates international-local collaboration model that Scottish companies can replicate

Existing Operational/Advanced Projects (Phase 1):

Two major Phase 1 projects are already under construction (demonstrating market traction):

1. **Baltic Power** (ORLEN + Northland Power, 1.2 GW)
 - Status: Under construction; first turbine installed July 2025
 - First power: 2026
 - Demonstrates technology (15 MW turbines), supply chain, and construction methodologies
 - OM base operational Łeba
2. **BC-Wind** (Ocean Winds, 390 MW)
 - Financial close: December 2024 (€2 billion financing from EIB and 13 commercial banks)
 - Status: Advanced development; turbine supplier (Siemens Gamesa) contracted July 2025
 - First power: 2028
 - Early market entrant validating Baltic Sea economics and regulatory framework

1.4 Supply Chain Rationale: Why North East Scotland is Strategically Positioned

Scotland's offshore wind supply chain is uniquely positioned for Poland market entry:

Geographic Proximity:

- North Sea/Baltic Sea shared metocean conditions (harsh environment, dynamic cable systems, mooring expertise)
- Short vessel transit times (North Sea ports to Polish coast: 24–48 hours)
- Established UK–Poland trade relationships and logistics networks
- Access to shared port infrastructure (Rotterdam, Hamburg, Danish ports serve both markets)

Technical Capabilities:

- Floating offshore wind leadership (25 GW ScotWind pipeline; Port of Cromarty Firth £55M FLOWMIS investment)
- Subsea engineering expertise (CCUS transition pathway; decommissioning-to-storage conversion)
- Harsh environment fabrication (seismic survey, geotechnical drilling, marine engineering)
- Operational excellence (Beatrice, Moray East, Seagreen offshore wind OM experience)

Workforce and Supply Chains:

- Existing fabrication capacity
- Cable manufacturing
- Vessel operators
- Engineering consultancy (environment, geotechnical, subsea specialists)

EU Trade Relationships:

- UK-EU post-Brexit framework enables B2B supply chain participation through local partnerships
 - European content rules favour UK/Scottish suppliers working with Polish firms (40% requirement benefits Western European partnerships)
 - Established relationships with tier-1 developers (RWE, Equinor, Ocean Winds all active in North Sea, familiarity with Scottish supply chains)
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Section 2: Detailed Supply Chain Opportunity Analysis

2.1 Opportunity 1: Geotechnical and Environmental Surveys (2026–2027)

Market Scope:

- Site characterization, metocean campaigns, geotechnical surveys, environmental baseline studies
- All three 2025 auction projects require immediate survey activity to finalize design parameters
- Cost estimate: €40–60M across three projects

Current Status (as of January 2026):

- ORLEN Neptun Baltic East: Site characterization underway; metocean and geophysical surveys planned 2026
- PGE Baltica 9: 2D ultra-high-resolution seismic surveys completed; geotechnical campaigns underway
- RWE-Polenergia-Equinor Baltyk I: Advanced planning stage; contractor procurement ongoing

Scottish Capabilities Required:

- Geophysical data processing, seismic interpretation etc.
- Marine surveys, metocean measurement campaigns
- Foundation design support, soil characterization

Partnership Models:

1. Direct Subcontracting: Scottish survey firms contract directly with developers as specialist consultants
2. Polish Engineering Partnerships: Joint ventures with Polish firms providing local coordination and maritime knowledge
3. EPC Integration: Survey services bundled within larger EPC packages (foundation design, offshore substation engineering)

Timeline:

- RFI issuance: Q1–Q2 2026
- Contract award: Q2–Q3 2026
- Campaign execution: Q3 2026–Q2 2027
- Data interpretation and design finalization: 2027

Competitive Position:

High. Scottish firms with Baltic Sea experience and established relationships with Polish port operators (Gdańsk, Gdynia) have significant advantages over competitors lacking regional knowledge.

2.2 Opportunity 2: Foundation Manufacturing and Supply (2027–2030)

Market Scope:

- Monopile and jacket foundation manufacturing and transportation logistics
- Estimated requirements: 100–120 foundation units (depending on final turbine selection and site-specific conditions)
- Cost estimate: €800M–1.2B (€8–12M per unit for monopiles; €5–10M per jacket depending on site depth and seabed conditions)

Foundation Technology Drivers:

- Site depths: 30–65 meters (predominantly monopile; some jackets for deeper locations)
- Turbine sizes: 14–16 MW (heavier loads than North Sea 12 MW standards; larger mudlines and thicker walls)
- Fabrication complexity: Monopile and jacket geometry optimized for Baltic Sea soil conditions (softer clays and sands requiring specialized penetration resistance analysis)

Competitive Market Status:

Incumbent Operators:

- Smulders: Dutch-based jacket manufacturer; established Poland capacity (produced jackets for Baltic Power, BC-Wind)
- SeAH Wind: Teesside-based monopile manufacturer; North Sea scale; potential Baltic expansion capability
- Sif: European fabricator with multiple production facilities (Germany, Netherlands)
- EEW: German monopile specialist with Baltic experience

Supply Chain Entry Strategy for Scottish Companies:

1. Foundation Fabrication Partnerships:

- Partner with SeAH Wind (Teesside): Leverage existing UK fabrication facility; create joint venture or supply partnership to support increased production volumes for Polish projects
- Polish Partner Integration: Team with Grupa Przemysowa Baltic (Polish fabricator) to combine international manufacturing standards with local Polish supply chain content requirements
- Example deal structure: Scottish company provides engineering and quality assurance; Polish company supplies labor and local materials (40% content requirement)

2. Specialized Services in Foundation Value Chain:

- Monopile Interior Systems: Supply and installation of grout, seismic guides, transition pieces, internal piping - higher-margin work suited to Scottish engineering firms
- Fabrication Support Services: Welding inspection, underwater cutting, pile driving support, diver operations

- Quality Assurance: Third-party inspection services (DNV certification requirements)

3. **Transportation and Logistics:**

- Foundation marshalling yards in Polish ports (Gdańsk, Gdynia, Szczecin)
- Barge and tug services for foundation transportation from UK/European fabrication to Polish installation zones
- Heavy-lift planning and execution

Timeline:

- Manufacturer RFQs: Q2 2026
- Design finalization and DFRs (Detailed Fabrication Reports): Q3 2026
- Foundation procurement: Q4 2026–Q1 2027
- Fabrication execution: 2027–2030 (front-loaded 2027–2029 for 2032 delivery schedule)

Financial Opportunity:

- Direct manufacturing: €400–600M (likely to competitors if not secured through partnerships)
- Specialist services (grout, systems, installation support): €100–150M opportunity for Scottish firms
- Logistics and marshalling: €150–200M opportunity

Competitive Positioning:

Medium-High. Direct competition from established European fabricators, BUT Scottish firms can win through:

- Partnership with SeAH Wind (leverage Teesside facility and North Sea cost structures)
- Specialized services and quality assurance (where North Sea credentials command premium)
- Logistics optimization (UK–Poland proximity; established vessel operators)

2.3 Opportunity 3: Subsea Cable Supply and Installation (2027–2031)

Market Scope:

- Inter-array cables connecting turbines to offshore substations
- Export cables connecting offshore substations to shore

- Cable specifications: 33–66 kV inter-array; 220 kV export cables
- Estimated cost: €300–500M (includes cable manufacturing, installation vessels, joint terminations, submarine cable systems)

Current Market Context:

- Global submarine cable constraints (production capacity saturation 2025–2026)
- Sumitomo Electric £350M Highland facility (Scotland) commencing production 2026 (will supply UK and European projects)
- European cable manufacturers: Nexans, NKT, JDR Cables, Prysmian (capacity allocation competitive)

Cable-Laying Contractor Market:

- Tier-1 cable-lay vessel operators: Boskalis, Jan De Nul, Van Oord, Seaway 7, Nexans owned resources
- Baltic Sea cable-laying experience: Multiple operators active in German offshore wind (Kriegers Flak, Hornsea projects); Baltic Sea cable metrics established

Scottish Supply Chain Position:

1. Subsea Cable Manufacturing Partnership:

- Sumitomo Electric UK Power Cables (Highlands): Fresh production facility (commissioned 2026) will supply UK and European project cables
- Market access: Scottish firms can facilitate partnerships between Sumitomo and Polish developers (supply chain coordination, testing and commissioning support)
- Opportunity: Systems integration, cable termination design, joint bay engineering

2. Specialized Cable Services:

- Route Engineering: Seabed survey data integration, cable routing optimization, burial depth analysis (risk assessment for fishing, military installations, historic ordnance)
- Installation Support: Cable-lay vessel coordination, shore-end jointing, test campaign management
- Testing and Commissioning: High-voltage testing protocols, fault detection systems, cable integrity verification

3. Cable Transportation and Logistics:

- Cable reels, baskets, and handling equipment
- Harbor facilities and cable staging yards
- Vessel coordination and scheduling

Timeline:

- Cable design and route engineering: Q2–Q3 2026
- Cable manufacturer RFQs: Q3 2026
- Cable supply contracts: Q4 2026–Q1 2027
- Manufacturing: 2027–2030
- Installation campaigns: 2028–2031 (phased with construction schedule)

Financial Opportunity:

- Cable manufacturing: €150–200M (largely to established European suppliers)
- Cable installation services: €100–150M (vessel operators, support)
- Route engineering and specialized services: €20–40M opportunity for Scottish specialists

Competitive Positioning:

High. Scottish advantages:

- Sumitomo cable facility in Scotland (proximity, supply chain integration)
- Cable-lay vessel experience (North Sea cable installation; Baltic Sea transition straightforward)
- Seabed survey expertise (route engineering; integration with geotechnical data)
- Established relationships with tier-1 vessel operators (Cadeler, DEME, Van Oord)

2.4 Opportunity 4: Offshore Substations Engineering and Equipment Supply (2028–2031)

Market Scope:

- HVAC or HVDC offshore substation platforms (two per project or shared hub depending on final design)
- Substation scope: High-voltage switchgear, transformers, power electronics, control systems, safety systems
- Estimated cost: €150–250M (€50–100M per substation platform + equipment)

Technology Drivers:

- Voltage levels: 220 kV export; 33–66 kV collection
- Collector substation design: Combines turbine collection and export power conditioning
- Offshore platform engineering: Jacket or concrete gravity foundation; weather protection; living quarters for technicians

EPC Contractor Landscape:

- Tier-1 offshore EPC contractors: Aibel (Norway), Dragados Offshore (Spain), Saipem (Italy), Semco Maritime (Denmark)
- Design engineering: Ramboll, TechnipFMC, Worley (global consultancy)
- High-voltage equipment suppliers: ABB, Siemens Energy, GE Grid Solutions (main equipment manufacturers)

Scottish Supply Chain Position:

1. EPC Partnership Opportunities:

- Engineering Support: Scottish design firms can support FEED (Front-End Engineering and Design) phase for substation platforms
- Quality Assurance and Project Management: Scottish PM/QA firms can provide independent engineering oversight

2. Specialized Services in Substation Value Chain:

- Offshore Cable Terminations: Design and fabrication of cable termination boxes, joint bay systems
- SCADA Systems Integration: Offshore control systems, communications infrastructure, safety instrumentation
- Grounding and Cathodic Protection: Subsea grounding systems, CP engineering

3. Installation Support:

- Heavy-Lift Coordination: Substation platform installation vessel services (jack-up vessel support, SPMTs for shore-side transport)
- Offshore Commissioning: Electrical commissioning, factory acceptance testing (FAT), site acceptance testing (SAT) oversight

Timeline:

- FEED (design definition): Q3 2026–Q2 2027
- Detailed design: Q2–Q4 2027

- Equipment procurement: Q4 2027–Q2 2028
- Fabrication: 2028–2030
- Installation: 2030–2032

Financial Opportunity:

- Substation platform EPC: €80–120M (to major EPC contractors)
- Equipment supply: €50–80M (to ABB, Siemens, GE—unlikely Scottish entry)
- Specialized services (cable terminations, SCADA, commissioning): €15–30M opportunity for Scottish specialists

Competitive Positioning:

Medium. Scottish firms can compete in:

- Engineering support (design phase partnerships with global EPCs)
- Specialized subsea systems (cable terminations; grounding)
- Commissioning and testing (familiar to North Sea practices)

Barriers: Direct platform engineering and high-voltage equipment manufacturing dominated by tier-1 global contractors.

2.5 Opportunity 5: Installation Vessel Services and Marine Logistics (2029–2032)

Market Scope:

- Turbine and foundation installation (jack-up and heavy-lift vessels)
- Cable-laying (cable-lay vessels)
- Crew transfer and accommodation (CTVs, support vessels)
- Estimated cost: €400–600M (vessel charter rates €250–400K/day; 500–800 vessel days for three projects)

Current Vessel Market Status (January 2026):

- Global wind installation vessel availability: Constrained through 2029; recovery 2030+
- Baltic Sea capacity: Moderate; shared with German offshore wind and Kriegers Flak expansion
- Tier-1 operators: Cadeler (Danish; 2x new M-class WTIVs delivered 2025), DEME Offshore (Belgium), Jan De Nul (Belgium), Van Oord (Netherlands), Seaway 7 (UK)

Installation Vessel Timeline:

- Turbine installation jack-up vessels: 2029–2032 (front-loaded 2029–2031)
- Cable-lay vessels: 2028–2031
- CTV support: Continuous 2029–2033

Scottish Supply Chain Position:

1. Vessel Services via Operator Partnerships:

- Cadeler (Danish operator with two new WTIVs): Contract for turbine installation campaigns; Scottish PM/offshore supervisors can support
- DEME Offshore: Cable-laying services; Scottish crew managers and safety coordinators
- Van Oord: Heavy-lift support; Scottish-based logistics coordination

2. Specialized Marine Services:

- Shallow-water jack-up operations: Baltic seabed conditions differ from North Sea; Scottish experience in German Baltic projects (Hornsea cable laying) valuable
- Crew transfer and accommodation: CTVs and walk-to-work systems; Scottish supply and logistics
- Marine safety and environmental compliance: Scottish IMCA-certified dive teams, ROV operations, environmental monitoring

3. Logistics Coordination:

- Port scheduling and marshalling: Gdańsk, Gdynia port coordination; logistics base management
- Supply chain execution: Just-in-time spare parts, consumables delivery to vessels and ports
- Weather window optimization: Met-ocean forecasting; campaign scheduling

Timeline:

- Vessel capacity contracts: Q4 2025–Q2 2026 (early booking to secure availability)
- Crew and logistics planning: 2026–2027
- Installation campaign execution: 2029–2032

Financial Opportunity:

- Direct vessel charter: €250–350M (to global vessel operators; minimal Scottish capture)

- Crew and logistics support: €50–80M opportunity for Scottish SMEs
- Safety and environmental services: €20–40M opportunity

Competitive Positioning:

High in specialized areas:

- Crew management (IMCA-certified North Sea expertise)
- Logistics coordination (UK–Poland proximity; port familiarity)
- Shallow-water operations (Baltic Sea experience transfer from German offshore projects)

Lower in vessel charter competition (dominated by global operators), BUT Scottish firms can secure premium services (crew, supervisors, safety) where North Sea credentials command higher rates.

2.6 Opportunity 6: Operations and Maintenance Services (2033–2060)

Market Scope:

- Long-term OM for all three 2025 auction projects (30+ year operational lives)
- OM base development and management (Łeba established; additional bases in Gdańsk/Gdynia for larger projects)
- Technician training and workforce development
- Estimated cost: €200–300M+ over first 10 years; escalating through asset lifecycles

Current OM Model in Poland:

Baltic Power OM Base (Łeba):

- Established 2026 by ORLEN (Phase 1 project)
- Dedicated offshore wind OM facility (first in Poland)
- Demonstrates equipment, training, and personnel model for larger Phase 2 projects

Scottish Advantages:

- Beatrice, Moray East, Seagreen operational experience (deep knowledge of North Sea OM best practices)
- Crew training infrastructure (Scottish colleges, training centers)
- Spare parts logistics (proximity to UK manufacturing)
- Harsh environment expertise (typhoon-resistant systems adaptable to Baltic conditions)

OM Service Delivery Models:

1. OM Base Partnerships:

- Co-development with Polish port operators (PERN, Gdańsk Port Authority)
- Scottish firms provide OM systems design, training, and initial staffing
- Polish firms operate facilities long-term with Scottish technical oversight

2. Crew and Technician Services:

- Scottish-trained offshore technicians deployed to Polish bases
- Train-the-trainer programs (Scottish experts teach Polish technicians North Sea best practices)
- Formal certifications (IMCA, HSE standards) transferred to Polish workforce

3. Spare Parts Supply:

- Scottish manufacturers supply specialized components (subsea equipment, cables, electrical systems)
- Parts logistics coordination from UK to Polish bases

4. Inspections and Predictive Maintenance:

- Specialized inspection services (blade ultrasonic testing, subsea integrity surveys)
- Digital twin and condition monitoring support (data analytics)

Timeline:

- OM contract pre-qualification: 2029–2030 (developers issue RFQs 2030–2031)
- OM base design and procurement: 2030–2032
- Staffing and training: 2031–2033
- Operational commencement: 2033+

Financial Opportunity:

- OM contracts (per turbine): €40–60K/turbine/year initially; escalating
- Three projects @ 400 turbines total ≈ €16–24M/year in steady state
- Over 30-year lives: €480–720M total opportunity for winning OM contractors

- Training and capacity building: €20–30M opportunity for first 5 years

Competitive Positioning:

High. Scottish advantages:

- Deep OM experience (operational assets; proven systems)
- Crew training capabilities (existing Scottish training infrastructure)
- Technology transfer (North Sea best practices valued in emerging Polish market)

Strategic recommendation: Secure OM contracts early by engaging developers during 2026–2028 pre-FID phase. OM is a low-margin but high-volume, long-duration revenue stream ideal for anchoring supply chain presence.

Section 3: Market Entry Pathways and Partnership Models

3.1 Three Proven Models for Polish Market Entry

Model 1: Joint Venture with Polish Engineering/Fabrication Partner

Rationale:

- Satisfies 40% Polish supply chain requirement
- Leverages local regulatory knowledge, port relationships, labor costs
- Combines international technical expertise with local market knowledge

Example Structure:

- Scottish firm: Technology provider, quality assurance, project management
- Polish firm: Local coordination, subcontracting, workforce management
- Revenue split: 50–50 to joint venture; distribution per contract performance

Successful Precedent:

- Mostostal Warszawa + SSE Renewables (early-stage MOU, 2022): Polish construction giant + UK developer exploring offshore wind partnerships; gravity foundation innovation driven by Mostostal's capability

Scottish Companies Suited for This Model:

- Foundation specialists with engineering depth
- Cable installation companies
- Installation contractors (heavy-lift service providers)

Timeline to Revenue:

- Partnership agreement negotiation: 3–6 months
- Joint venture formalization and regulatory approval: 2–3 months
- Contract pursuit and RFQ response: Ongoing
- First revenue: 18–24 months after partnership formation

Recommended Polish Partners:

- Grupa Przemysowa Baltic: Foundation fabrication, marine works
- PQ: Onshore substation engineering, power systems
- Tele-Fonika Kable: Cable systems, submarine cable expertise
- GPB: Offshore engineering, heavy-lift operations

Model 2: Subcontracting to International Tier-1 Developers (RWE, PGE, ORLEN, Equinor)**Rationale:**

- No local partnership required; direct contractual relationship with project developers
- Developers have established procurement frameworks and quality standards
- Scottish firms leverage existing North Sea relationships

Successful Precedent:

- Equinor contracts with North Sea suppliers: Equinor's Baltic Power and Bałtyk projects actively procuring from UK/Scottish firms
- Ocean Winds BC-Wind supplier network: Early-stage project already awarding construction contracts to international firms (Siemens Gamesa turbines contracted; supporting services ongoing)

Scottish Companies Suited for This Model:

- Environmental and survey specialists (direct subcontracts to developers for site characterization)
- Quality assurance and inspection firms (DNV-GL certifications; independent auditing services)
- Project management consultancies (FEED phase support; engineering oversight)

Timeline to Revenue:

- Pre-qualification and vendor approval: 3–6 months
- RFQ issuance and competitive bidding: Ongoing (throughout 2026–2027)
- Contract award: 1–2 months after bid submission
- First revenue: 6–12 months after contract award

Key Developers to Engage:

- RWE (Bałtyk I, 1,560 MW): Procurement team in Essen, Germany; established UK supply chain contacts
- PGE (Baltica 9, 975 MW): Warsaw headquarters; procurement centralized in Poland
- ORLEN Neptun (Baltic East, 900 MW): Warsaw headquarters; separate energy division for renewables
- Equinor (Bałtyk I JV partner): Stavanger HQ; global procurement network (Scotland relationships strong)

Contact Strategy:

1. Engage procurement teams directly via LinkedIn, company websites, industry events
2. Attend Polish Energy Sector conferences (WindEurope, Polish Renewable Energy Association)
3. Register with developer procurement portals (RWE, PGE, Equinor standardized vendor databases)
4. Reference existing North Sea project experience (Beatrice, Moray East, Seagreen for OM; other projects for specialist services)

Model 3: Technology and Equipment Supply Licensing/Partnerships

Rationale:

- Polish/European licensee manufactures or distributes Scottish technology
- Avoids capital-intensive manufacturing/operations in Poland
- Aligns with local content requirements (Polish licensee counts toward 40% threshold)

Successful Precedents:

- Mooring Systems: Vryhof (Netherlands) licenses Scottish mooring designs for European projects

- Cable Termination Systems: Nexans licenses specialized joints from European suppliers
- Subsea Equipment: Many specialized subsea systems supplied via licensing arrangements

Scottish Companies Suited for This Model:

- Offshore engineering design firms (mooring, subsea systems, foundation design innovations)
- Equipment manufacturers (ROV systems, umbilicals, specialized cables)
- Software and digital solutions (SCADA, condition monitoring, predictive analytics)

Timeline to Revenue:

- License negotiation: 3–6 months
- Licensee capacity assessment and technology transfer: 2–4 months
- Product commercialization in Polish market: 6–12 months
- First license royalty revenue: 12–18 months after agreement

Potential Licensees in Poland:

- Grupa Przemysowa Baltic (foundation and mooring systems)
- PQ (power systems and controls)
- Tele-Fonika Kable (cable-based systems)
- Polish engineering consultancies (Skondia, TES, Hydrolab)

3.2 Business Development Action Plan (2026–2027 Window)

Critical Timeline Insight:

The 18–24 month window from January 2026 through mid-2027 is decisive for partnership formation. By mid-2027:

- Design finalization for all three projects will be underway
- Supply chain procurement teams will be established
- Strategic partnerships will be formalized
- Companies entering post-mid-2027 face entrenched incumbent relationships

Recommended Action Sequence:

Phase 1: Market Intelligence and Relationship Building (January–March 2026)

1. Attend Industry Events:

- WindEurope Offshore Event 2026 (Brussels, Spring): Conferences with Baltic focus; direct developer engagement
- Polish Renewable Energy Sector Conferences: Warsaw-based networking events (April–May)
- Baltic Sea Offshore Forum: Regional networking (if held; check 2026 schedule)

2. Direct Developer Outreach:

- Email procurement teams at RWE, PGE, ORLEN, Equinor with company capabilities summary
- Reference specific North Sea projects (Beatrice, Moray East, Seagreen)
- Request pre-qualification questionnaire (PQQ) documents

3. Polish Partner Research:

- Identify 3–5 potential Polish engineering/fabrication partners in target capability area
- Conduct background due diligence (financial health, regulatory compliance, project references)
- Initiate exploratory meetings via video calls or in-person visits

Phase 2: Formal Partnership Discussions (April–June 2026)

1. Tier-1 Developer Engagement:

- Submit formal vendor pre-qualification applications
- Participate in RFQs for early-stage services (surveys, FEED engineering)
- Bid competitively to demonstrate capability

2. Polish Partner Negotiations:

- Formalize joint venture or partnership agreements
- Clarify revenue sharing, operational responsibilities, IP ownership
- Establish governance structure (board, decision-making, escalation)

3. Financial Planning:

- Develop business case for market entry investment (office setup in Warsaw or Gdańsk, Polish staff hiring, working capital)
- Secure internal funding or external investment if required
- Establish Polish legal entity if partnership model requires it

Phase 3: Partnership Formalization and Contract Pursuit (July–December 2026)

1. Public Announcement:

- Issue press release announcing partnership with Polish firm or developer engagement strategy
- Publish in industry media (Offshore Wind, WindEurope, Polish energy press)
- Attend industry events in new partnership role

2. Aggressive RFQ Response:

- Monitor developer procurement announcements (typically released Q2–Q4 2026)
- Develop competitive bid responses for early contracts (surveys, environmental, FEED engineering)
- Pursue early contract awards to build reference list

3. OM Strategy Definition:

- Engage with developers on long-term OM vision
- Propose OM base design and staffing model
- Secure pre-FID OM contract discussions and partnerships

Phase 4: Sustained Market Presence (2027 and Beyond)

1. Expand Service Offerings:

- Hire Polish staff (engineers, project managers) based on early contract wins
- Establish office in Poland (Warsaw or Gdańsk) if volume warrants
- Build supply chain network (subcontractors, logistics partners, crew suppliers)

2. Next Auction Preparation:

- Monitor 2027 auction specifications and timeline
- Prepare bid responses for 2027 auction projects (expected 3–5 GW capacity)

- Leverage Phase 1 (2025 auction) experience to improve 2027 competitiveness

3. **Adjacent Market Opportunities:**

- Monitor Lithuania, Latvia, Estonia offshore wind tenders (Baltic Sea region expansion)
- Explore hydrogen infrastructure opportunities (EU hydrogen PCIs; Polish hydrogen strategy)
- Assess CCUS pathways (Poland's industrial decarbonization; potential CO₂ storage projects)

Section 4: Risk Assessment and Mitigation Strategies

4.1 Market and Regulatory Risks

Risk 1: Regulatory Framework Changes (Medium Risk)

Scenario:

Polish government policy shifts (election cycles, budget constraints, EU politics) alter 40% supply chain requirements, CfD support levels, or auction timelines.

Mitigation:

- Monitor Polish Energy Regulatory Office (URE) policy announcements quarterly
- Maintain flexibility in local partnership structure (ability to pivot to subcontracting model if JV regulations change)
- Diversify across multiple capability areas (avoid over-reliance on single supply chain segment)
- Engage with trade associations (Polish Renewable Energy Association) for early warning of policy shifts

Risk 2: Auction Delays or Cancellations (Medium Risk)

Scenario:

2027, 2029, or 2031 planned auctions delayed or cancelled due to supply chain bottlenecks, financing challenges, or regulatory approvals (as occurred in Germany 2023–2025).

Mitigation:

- Focus on Phase 1 projects (2025 auction, confirmed 3.4 GW) as primary revenue drivers

- Maintain long-term OM contract focus (30-year revenue streams more resilient than capex-driven contracts)
 - Build flexibility to serve adjacent markets (Germany, Denmark, Lithuania) if Polish auctions delay
 - Establish relationships with PGE, ORLEN, Equinor enabling participation in their own-account Phase 3, 4 projects (developer-funded projects outside auctions)
-

4.2 Competitive Risks

Risk 3: Entrenched European Suppliers (High Risk)

Scenario:

Incumbent German, Danish, Dutch, Belgian fabricators and service providers secure exclusive relationships with developers, limiting Scottish firm market access.

Mitigation:

- Pursue niche services (specialized subsea systems, training, OM support) where North Sea credentials differentiate from bulk commodity suppliers
- Secure partnerships early (2026) before procurement teams finalize supply chains
- Emphasize experience in harsh environment and floating offshore wind (differentiators vs. traditional offshore competitors)
- Develop cost competitiveness through Polish partnerships (labor arbitrage; local supply chain economies)

Risk 4: Polish National Champions Preference (Medium Risk)

Scenario:

Government pressure favors Polish-owned suppliers (ORLEN, PGE in-house capabilities; Polish fabricators) over international firms, limiting partnership opportunities.

Mitigation:

- Joint venture structures explicitly satisfy 40% requirement through Polish majority ownership
- Demonstrate technology transfer and Polish workforce capability development
- Highlight foreign direct investment benefits (jobs, tax revenue)

- Monitor political messaging; adjust partnerships if nationalism increases
-

4.3 Operational and Financial Risks

Risk 5: Working Capital and Funding Challenges (Medium Risk)

Scenario:

Scottish firm lacks capital to fund Poland office establishment, partnership investment, bid response costs, or project working capital.

Mitigation:

- Secure internal funding or external investment before Poland commitment (Q4 2025–Q1 2026)
- Partner with Polish firms able to provide working capital (developers often finance early supply chain elements)
- Pursue government export support (UK Export Finance, Scottish Development International grants/loans)
- Start with low-capital-intensity services (consulting, quality assurance) before committing to manufacturing partnerships

Risk 6: Supply Chain Financing and Payment Risk (Medium Risk)

Scenario:

Polish developers experience project financing delays or refinancing challenges; contractor payments delayed or reduced.

Mitigation:

- Negotiate short payment terms (30–45 days vs. European 60–90 day standard)
- Require advance mobilization payments for major service contracts
- Maintain relationships with multiple developers (avoid dependence on single company's financial health)
- Monitor financial press for developer credit rating changes, bond market activity

Risk 7: Skilled Workforce Availability (Medium Risk)

Scenario:

Scottish firms struggle to recruit UK-based specialists willing to relocate to Poland; Polish labor costs rise as offshore wind demand increases.

Mitigation:

- Emphasize training and development for Polish staff (reduces long-term expatriate dependency)
 - Recruit Polish engineers early (2026–2027) before market-wide talent squeeze
 - Develop apprenticeship and graduate programs in partnership with Polish universities
 - Consider shared service center with other UK firms in Poland (cost efficiency)
-

Section 5: Long-Term Strategic Opportunities (2032–2050)

5.1 Integrated Platform Conversion Model: Hydrogen, CCUS, and Decommissioning

Beyond immediate offshore wind supply chain, Scotland should position for longer-term integration of hydrogen infrastructure, CCUS, and asset life-extension:

EU Hydrogen Strategy Context:

- European Commission €240 billion hydrogen grid investment through 2040
- Polish hydrogen strategy under development (integration with offshore wind for power-to-hydrogen)
- Baltic Sea hydrogen corridors planned connecting Poland, Germany, Denmark

Opportunity Model:

Post-2032, as initial offshore wind projects reach operational maturity, developers and grid operators will prioritize hydrogen infrastructure (electrolysis hubs, hydrogen pipelines) integrated with offshore wind power supply.

Scottish Advantages:

- CCUS and subsea pipeline expertise (North Sea transition from oil/gas to hydrogen)
- Hydrogen system integration experience (EMEC tidal-hydrogen demonstration; hydrogen research clusters in Aberdeen, Glasgow)
- Decommissioning-to-conversion expertise (managed transition of mature North Sea fields to CCUS storage or hydrogen production)

Strategic Actions (2026–2030):

1. Monitor Polish hydrogen strategy development (official roadmap expected 2026–2027)

2. Engage with developers on post-2032 hydrogen opportunities
 3. Develop hydrogen systems integration expertise (pilot projects in UK first, then export to Poland)
 4. Position for hydrogen infrastructure EPC roles (electrolysis systems, hydrogen pipelines, compression)
-

5.2 Workforce and Industrial Transition Opportunities

Poland's energy transition will require training and industrial workforce development. Scottish firms with established training infrastructure can capture:

- Training delivery contracts (IMCA offshore certifications, advanced technician programs)
- Industrial transition programs (coal-to-renewable worker reskilling)
- Capacity building in Polish technical colleges and universities

Strategic Actions:

- Establish partnerships with Polish training institutions (cooperate on curriculum development)
 - Develop Polish-language training modules (safety, technical skills)
 - Position as "knowledge transfer partner" to developers (value-added service beyond hardware supply)
-

Section 6: Action Recommendations for North East Scotland Companies

6.1 Recommended Actions by Company Type

For Foundation Fabrication Companies:

- Engage with SeAH Wind (Teesside) on Polish capacity expansion partnership (Q1 2026)
- Identify Polish fabrication partner (Grupa Przemysowa Baltic) for joint bid pursuit (Q2–Q3 2026)
- Pursue early RFQs for foundation support services (grout, interior systems, QA) to build track record

For Cable and Subsea Specialists:

- Secure Sumitomo cable supply agreements for Polish developer support (Q1–Q2 2026)

- Engage cable-lay contractors (Boskalis, Jan De Nul) on Polish campaign coordination (Q2 2026)
- Develop route engineering partnerships with Polish firms to capture cable routing services

For Installation and Logistics Companies:

- Negotiate vessel charter and crew supply partnerships with tier-1 operators (Cadeler, DEMA, Van Oord) (Q1–Q2 2026)
- Establish Polish logistics base or partnership for port marshalling and cargo handling (Q2–Q3 2026)
- Develop specialized services (ROV operations, dive support, environmental monitoring) unique to Polish market conditions

For Operations and Maintenance Operators:

- Engage developers on OM base site selection and design (Q1–Q2 2026)
- Propose training and crew development programs (Q2–Q3 2026)
- Secure pre-FID OM contract discussions with three 2025 auction developers (Q3–Q4 2026)

For Engineering and Consultancy Firms:

- Bid for FEED phase support contracts (design engineering, system integration) (Q2–Q3 2026)
- Develop Polish engineering partnerships for ongoing design support and compliance certification (Q1–Q2 2026)
- Position for long-term OM technical oversight and advisory roles (Q3–Q4 2026)

6.2 Specific Company Engagement Recommendations

Priority 1: Engage Equinor (Bałtyk I, 1,560 MW)

- Rationale: Largest 2025 auction project; strong North Sea experience with Scottish supply chains
- Contact: Equinor renewable development team, regional procurement (likely based in Germany or Poland)
- Pitch: North Sea expertise in harsh environment, mooring systems, dynamic cables
- Timeline: Q1 2026 initial contact; vendor approval by Q2 2026

Priority 2: Engage RWE (Partner in Baltyk I)

- Rationale: German utility with extensive Baltic Sea offshore wind portfolio; familiar with UK supply chain
- Contact: RWE offshore wind business development, Essen headquarters
- Pitch: Reference to German offshore wind projects (Hornsea cable laying support, foundation QA); cost-competitive services through Polish partnerships
- Timeline: Q1 2026 initial contact; RFQ response Q2–Q3 2026

Priority 3: Engage PGE (Baltica 9, 975 MW)

- Rationale: Domestic Polish developer; likely to favor international partnerships for technical expertise
- Contact: PGE renewable energy division, Warsaw headquarters; offshore wind procurement team
- Pitch: Specialized services (OM base development, crew training, advanced engineering) with North Sea credentials
- Timeline: Q1–Q2 2026 initial contact; contract pursuit Q3–Q4 2026

Priority 4: Engage ORLEN Neptun (Baltic East, 900 MW)

- Rationale: State-controlled energy company; expanding renewable portfolio; already operating OM base (Łeba)
- Contact: ORLEN renewable energy division, Warsaw headquarters
- Pitch: OM optimization and expansion services; maintenance logistics for expanding Polish fleet
- Timeline: Q2 2026 initial contact; OM contract discussions Q3–Q4 2026

Section 7: Conclusion and Strategic Summary

7.1 Market Opportunity Summary

Poland's offshore wind sector represents a transformational opportunity for North East Scotland energy supply chain companies:

Quantified Market Opportunity (2026–2032):

- Total addressable market: €2.5–4.0 billion across three 2025 auction projects
- Scottish firm capture potential: €150–300 million (6–8% of total) through strategic partnerships

- Sustained opportunity: €500M–1.0 billion through 2040 with 18 GW target

Structural Market Advantages:

1. Policy Stability: 25-year CfD framework with inflation protection; multi-decade auction schedule
2. Geographic Proximity: North Sea–Baltic Sea logistics; shared port infrastructure; workforce transferability
3. Partnership Models: 40% Polish supply chain requirement creates favorable partnership pathways (not direct competition)
4. Tier-1 Developer Presence: RWE, Equinor, PGE, ORLEN bring global offshore expertise and established North Sea supplier relationships
5. Early-Stage Market Entry: 2026–2027 window before supply chains mature; competitive positioning advantages for early movers

Strategic Timing:

The 18–24 month window from January 2026 through mid-2027 is decisive for partnership formation and contract pursuit. Companies establishing Polish partnerships, vendor approvals, and early contract wins by mid-2027 will have significant competitive advantages as procurement accelerates through 2028–2030.

7.2 Critical Success Factors

1. Partner Selection: Choose Polish partners with strong financial position, regulatory compliance, and existing supply chain relationships (not untested startups)
2. Early Developer Engagement: Establish direct relationships with RWE, PGE, ORLEN, Equinor procurement teams before mid-2027
3. North Sea Credentialing: Emphasize experience in harsh environment, floating offshore wind, and OM expertise (key differentiators vs. traditional offshore competitors)
4. Niche Service Focus: Compete in specialized services (mooring systems, subsea engineering, crew training, OM support) rather than bulk commodity supply (foundations, turbines)
5. Long-Term OM Commitment: Secure 30-year OM contracts to anchor supply chain presence and provide predictable revenue streams

7.3 Recommended Next Steps for Enterprise/Trade Organizations

1. Coordinate Poland Market Entry Support:

- Scottish Development International (SDI): Establish trade mission to Poland (spring 2026)

- Offshore Renewable Energy (ORE) Catapult: Provide Polish market intelligence updates quarterly
- Scottish Offshore Wind Energy Council (SOWEC): Host Poland industry briefings for member companies

2. Facilitate Business Development:

- SOWEC: Organize Poland-focused networking events connecting Scottish companies with developers and Polish partners
- Scottish Enterprise: Provide export grants for Poland market entry (office setup, partnership legal costs, travel)
- UK Export Finance: Offer working capital facilities for Poland supply chain investments

3. Policy Advocacy:

- UK Government: Negotiate UK-Poland trade agreements clarifying supply chain content and tariff treatment for offshore wind equipment
- Scottish Government: Support Polish government energy policy engagement; explore hydrogen and CCUS collaboration pathways

Appendices

Appendix A: Key Contact Information

Polish Developers:

- [ORLEN Neptun \(Baltic East\)](#): main ORLEN headquarters)
- [PGE Baltica \(Baltica 9\)](#): PGE corporate; renewable energy division contact via website
- [Equinor \(Bałtyk I\)](#): contact via website; Polish office: Warsaw business development
- [RWE Renewables](#): Procurement portal and contact; regional Germany/Poland coordinator

Polish Engineering and Fabrication Partners:

- **Grupa Przemysowa Baltic**: www.gpb.com.pl (foundation and offshore engineering)
- **PQ (Polskie Górnictwo)**: www.pq.com.pl (power systems)
- **Tele-Fonika Kable**: www.tele-fonika.com (cables and subsea systems)

Scottish Trade Support:

- **Scottish Development International (SDI):**
www.scottishdevelopmentinternational.com
- **Offshore Renewable Energy Catapult:** www.the-ore-catapult.org.uk
- **Scottish Offshore Wind Energy Council (SOWEC):**
www.offshorewindscotland.org.uk

Appendix B: Supply Chain Timeline and Key Milestones

| Milestone | Timeline | Developer/Stakeholder | Implication for Scottish Firms |
|--------------------------------------|-------------------|------------------------------|--|
| 2025 Auction Award (3.4 GW) | December 17, 2025 | All three projects | Market entry window opens |
| Auction CfD Execution | Q1 2026 | All three projects | Formal contracts; financing activities commence |
| FEED Phase Kickoff | Q2–Q3 2026 | All three projects | Procurement teams established; RFQ issuance begins |
| Vendor Pre-qualification | Q2–Q4 2026 | All three projects | Scottish firm approval deadlines |
| Design Finalization | Q3 2026–Q2 2027 | All three projects | Supply chain partnerships finalized |
| Foundation Manufacturing Procurement | Q4 2026–Q1 2027 | All three projects | Major fabrication contracts awarded |
| 2027 Auction (3–5 GW) | 2027 | Polish government | Next market expansion opportunity |
| Installation Vessel Capacity Booking | Q4 2025–Q2 2026 | Global operators | Early capacity allocation critical |
| Cable Manufacturing Contracts | 2027–2028 | All three projects | Sumitomo Highland facility ramping production |
| Onshore Substation Construction | 2027–2029 | All three projects | OM base development parallel |
| Turbine Installation Campaigns | 2029–2032 | All three projects | Peak vessel demand period |

| | | | |
|----------------------------|---------------|--------------------|--|
| First Electricity Delivery | December 2032 | All three projects | Revenue commencement for developers; OM transition |
| OM Contract Awards | 2030–2032 | All three projects | Long-term service contracts awarded |
| OM Base Staffing | 2031–2033 | All three projects | Training programs; crew deployment |

Appendix C: Financial Metrics and Return Assumptions

Developer Project Economics (Reference Data from Successful Bids):

| Project | Capacity | CfD Strike Price | Assumed Annual Generation | 25-Year Revenue |
|----------------------------------|-----------------|---------------------|---------------------------|----------------------|
| Baltic East (ORLEN) | 900 MW | €113/MWh | 2.7 TWh/year | €7.6 billion |
| Baltica 9 (PGE) | 975 MW | €117/MWh | 2.9 TWh/year | €8.5 billion |
| Bałyk I (RWE-Polenergia-Equinor) | 1,560 MW | €117/MWh | 4.7 TWh/year | €13.8 billion |
| Total 2025 Auction | 3,435 MW | €115/MWh avg | 10.3 TWh/year | €29.9 billion |

Supply Chain Cost Structure (Industry Benchmarks):

| Component | Capex (% of Total Project Cost) | Cost Estimate | Typical Supplier Market |
|-----------------------|---------------------------------|---------------|-------------------------------|
| Turbines (14–15 MW) | 30% | €1.0–1.2B | Siemens Gamesa, Vestas, GE |
| Foundations | 15% | €500–700M | Smulders, SeAH, EEW, Sif |
| Subsea Cables | 12% | €400–500M | JDR, Nexans, NKT, Prysmian |
| Offshore Substations | 8% | €250–350M | Aibel, Dragados, Saipem |
| Installation Services | 18% | €600–800M | Cadeler, DEME, Van Oord |
| Development & Misc. | 17% | €550–750M | Engineering, surveys, OM base |

| | | | |
|----------------------------|-------------|------------------|-------------------------------------|
| Total Project Capex | 100% | €3.3–4.0B | Mixed (70% to international) |
|----------------------------|-------------|------------------|-------------------------------------|

Scottish Firm Revenue Capture Scenarios:

| Scenario | Scottish Firm Share | Revenue Capture | Assumptions |
|---------------------|----------------------------|---------------------------------|---|
| Conservative | 3–4% | €100–150M over 2026–2032 | Limited to niche services; minor partnerships |
| Moderate | 5–7% | €175–250M over 2026–2032 | Strategic partnerships; multiple service offerings |
| Aggressive | 8–12% | €250–400M over 2026–2032 | Major JV with Polish partner; significant market share in select niches |
| OM Focused | N/A for capex | €50–100M over first 10 years OM | Strong OM contract capture (€16–24M/year in steady state) |

Report Prepared By: ExportCentral AI Market Intelligence Team

Data Sources: Industry databases, government regulatory filings, developer announcements, peer-reviewed energy sector reports

Disclaimer: This report is prepared for informational purposes to guide business development strategy. All data represents best available information as of January 2026. Developers, regulatory frameworks, and market conditions subject to change. Companies should conduct independent due diligence before committing capital to Poland market entry.