Layman-Friendly AI/GenAI Use Case Explanations

Use Case: GenAI Development Co-Pilot

What: Help teams speed up site development by auto-generating documents like permits, contracts, and risk summaries.

How: Use Generative AI to read local rules, generate draft documents, flag common risks, and even propose site layouts.

Business Benefit: Development: Faster approvals, fewer errors, better project pipeline maturity.

Onshore: Helps deal with complex land and permitting requirements.

Use Case: Grid & Permitting Intelligence Engine

What: Identify grid limitations and permit delays early in the planning process.

How: AI reads public data (e.g., grid maps, regulations) and tells you if a site is likely to face problems - before money is spent.

Business Benefit: Onshore & Development: Saves time, avoids costly mistakes, and prevents bad site selection.

Use Case: Modular Product Configurator

What: Help customers or sales teams quickly configure the right wind turbine based on their location and needs.

How: GenAI assistant asks for simple inputs (like wind speed or terrain) and recommends a modular design with cost/yield estimate.

Business Benefit: Onshore & Offshore: Speeds up sales and engineering, ensures the right product fit, boosts customer satisfaction.

Use Case: Offshore Installation AI Planner

What: Make offshore construction smarter - reduce waiting times and optimize scheduling.

How: AI uses weather forecasts, vessel logistics, and part availability to plan the best time to install turbines.

Business Benefit: Offshore: Saves time and money by avoiding delays and inefficient use of ships and crews.

Use Case: Supply Chain Resilience Engine

What: Keep track of suppliers and detect delays or risks before they affect turbine production.

How: AI monitors supplier reliability, delivery trends, and pricing to alert procurement or auto-suggest alternatives.

Business Benefit: Offshore & Corporate: Avoid bottlenecks, maintain quality, and scale production effectively.

Use Case: AI-Based Offtake Optimizer

What: Help teams draft better power purchase agreements (PPAs) and secure better deals with energy buyers.

How: GenAI reads market prices, customer needs, and regulations to suggest optimal contract terms and win strategies.

Business Benefit: Development: Increases project profitability, accelerates revenue from new sites.

Use Case: Digital Twin + GenAI Service Advisor

What: Monitor turbines in real time and recommend proactive maintenance actions to avoid failures.

How: AI reads sensor data and compares with historical faults; GenAI explains issues and suggests fixes for technicians.

Business Benefit: Service: Reduces downtime, lowers O&M costs, extends turbine life - especially important during peak energy demand.

Use Case: Circularity & Sustainability Engine

What: Help track carbon emissions, waste, and product recyclability to meet sustainability goals.

How: GenAI models turbine life cycles, materials used, transport emissions, and suggests low-carbon alternatives.

Business Benefit: Service & Corporate Sustainability: Ensures progress toward net-zero and zero-waste targets; improves ESG reporting.

Use Case: Customer Co-Creation Copilot (Optional Extended)

What: Help long-term customers co-design wind solutions aligned with their business goals.

How: GenAI recommends products or services based on the customer's KPIs (e.g., Net Zero targets, budget, energy output).

Business Benefit: Sales, Service, and Onshore/Offshore: Deepens partnerships, improves conversion, builds loyalty.