

Glossary of Terms

Term	Definition
0-Hz	Zero hertz or static magnetic fields are
	constant fields, which do not change in
	intensity or direction over time, in contrast to
	low and high frequency alternating fields.
AC	Alternating Current, an electric current that
	reverses its direction many times a second at
	regular intervals.
Adaptive Management	A systematic approach to environmental
	management that allows for adjustments
	based on ongoing monitoring and evaluation.
ADLS	Radar-Based Aircraft Detection Lighting
	System, technology that uses radar to control
	the lighting of wind turbines.
Air Pollutants	Substances released during construction or
	operation that may have environmental
	impacts, including carbon monoxide, lead,
	nitrogen dioxide, sulfur dioxide, and
	particulate matter.
Air Pollution	The presence of harmful or excessive
	quantities of substances like particulate
	matter or gases in the air, often caused by
	human activities like burning fossil fuels.
Air Temperatures	The temperature of the air in the Earth's
	atmosphere, which can be affected by
	changes in greenhouse gas concentrations.
Ampere	Often shortened to "amp", is the unit of
	electric current in SI.
Aquaculture Integration	The potential synergies and conflicts
	between offshore wind farms and marine
	aquaculture operations, including
	considerations for fish farming, shellfish
	cultivation, and algae production.
Artificial Light	Human-made illumination, which can impact
	marine life behavior.
Artificial Reefs	Structures deployed underwater to mimic
	natural reef habitats, which can enhance fish



shelter, food sources, and breeding sites. Atmospheric CO2 Levels The concentration of carbon dioxide in the Earth's atmosphere, measured in parts per million (ppm). Atmospheric Concentrations The amount or level of a substance present in the Earth's atmosphere, measured in terms of concentration units like ppm. Atmospheric Data Information related to the Earth's atmosphere, including temperature, pressure, humidity, and composition of gases. Atmospheric Temperatures Refers to temperatures in the Earth's atmosphere, which can be influenced by greenhouse gases and other factors. Auditory Injuries Physical harm or damage to hearing organs or systems caused by exposure to loud or intense sounds. Avoidance Behavior Actions taken by birds or bats to avoid collisions with offshore wind turbines. BACT Best Available Control Technologies, technologies and methods identified as the most effective for controlling emissions from specific sources, as required by environmental regulations. Behavioral Disturbance Changes in behavior exhibited by animals due to external factors, such as noise or environmental changes, impacting their natural patterns of activity. Benthic Communities Ecological communities living on or near the ocean floor. Benthic Habitats Habitats on the seafloor, including softbottom and hard-bottom areas where various marine organisms live and interact.		and invertebrate populations by providing
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<u> </u>		various marine organisms live and interact.
Benthic Organisms Organisms that live on or near the seabed,	Benthic Organisms	
including benthic fish species, shellfish, and		
bottom-dwelling invertebrates.		
Biodiversity The variety and abundance of living	Biodiversity	
organisms in a particular ecosystem or	•	,
region.		
BIWF Block Island Wind Farm	BIWF	_



BOEM	Bureau of Ocean Energy Management
Bottom-Dwelling Species	Benthic and demersal organisms that live on
	or near the ocean floor.
Bubble Curtains	Air bubble systems used to reduce
	underwater noise during construction
	activities.
Bycatch	The unintentional capture of non-target
	species in fishing gear such as trawls, nets,
	and longlines.
Calcifying Organisms	Organisms that build skeletons or shells from
	calcium carbonate.
Capacity Factor	The ratio of actual energy output to the
	maximum possible output over a specific
	period, indicating efficiency.
Carbon Emissions	The release of carbon dioxide and other
	greenhouse gases into the atmosphere,
	primarily from human activities like burning
	fossil fuels.
Carbon Footprint	The total amount of greenhouse gases
	emitted directly or indirectly by human
	activities, often measured in units of carbon
	dioxide equivalents.
CEQ	Council on Environmental Quality
Clean Air Act	A U.S. federal law that regulates air emissions
	and aims to protect air quality and public
Climate	health.
Climate	Consistent and typical weather patterns
	observed in a specific place over an extended
Climata Chana	period, typically 30 years or more.
Climate Change	Refers to long-term changes in the Earth's
	climate, including warming oceans, rising sea
	levels, changes in temperature, precipitation,
	and weather patterns, often attributed to human activities such as the release of
Climate Warming	greenhouse gases. The increase in global temperatures over
Cimiate waitiling	time, often attributed to the enhanced
	greenhouse effect caused by increased
	greenhouse gas concentrations in the
	atmosphere.
CO2	Abbreviation for carbon dioxide, a colorless,
	odorless gas that is a major greenhouse gas
	odoriess bas that is a major greenhouse gas



	and the feature of th
	responsible for trapping heat in the Earth's
	atmosphere, contributing to global warming and ocean acidification.
CO2eq	CO2 Equivalent, a measure used to compare
COZEQ	the emissions from various greenhouse gases
	based on their global warming potential
	relative to carbon dioxide.
Coastal Areas	Areas along the coast that are important for
Coustairii Cus	supporting various species and protecting
	coastlines.
Coastal Communities	Populated areas located near coastlines,
	often vulnerable to climate-related risks like
	sea-level rise and storms.
Coastal Erosion	The loss of beach and dune habitats due to
	natural processes or human-induced
	changes.
Coastal Resilience	The ability of coastal communities and
	ecosystems to withstand and recover from
	environmental challenges and hazards.
Coastal Zone Management Act	U.S. legislation governing coastal
_	development and protection.
Collision Mortality	Refers to the death of birds or bats due to
	colliding with wind turbine blades or other
	structures.
Collision Risk	The likelihood of birds or bats colliding with
	wind turbines, influenced by factors such as
	flight behavior, avoidance strategies,
	migratory routes, and turbine design.
Combustion Reaction	A chemical reaction that occurs when fossil
	fuels are burned, producing heat, water
	vapor, and carbon dioxide as by-products.
Community Benefit Agreements	Agreements between developers and local
	communities that outline benefits such as
	investments, job creation, or infrastructure
	improvements in exchange for project-
	related permissions or support.
Community Investments	Financial contributions or initiatives aimed at
	benefiting local communities, such as funding
	education, training, infrastructure, or
	environmental projects.
Compensation Plans	Programs or mechanisms designed to provide
	financial support or compensation to



	individuals or communities affected by a
	particular activity or project.
COP	Construction and operation plan
Coral Reefs	Structures formed by coral polyps that
Cordinects	support diverse marine life.
Critical Habitat Designation	Designation of specific areas crucial for the
Cirtical Habitat Designation	survival and recovery of endangered or
	threatened species as per the Endangered
	Species Act (ESA).
CRM	Collision Risk Model, tool/s used to estimate
CINIVI	the potential risk of bird or bat collisions with
	wind turbines based on various input
	parameters and environmental data.
CRS	'
	Congressional Research Service An assessment that considers the combined
Cumulative Impact Assessment	
	effects of multiple human activities, such as
	offshore wind farms, shipping, fishing, and
avou.	pollution, on marine ecosystems over time.
CVOW	Coastal Virginia Offshore Wind
CWIS	Cooling water intake systems, systems used
	to cool machinery or processes by drawing in
	water from the environment.
Data Collection and Sharing	Protocols for collecting and sharing data
	related impacts and environmental
	monitoring.
dB	Decibel, a logarithmic unit used to express
	the ratio of acoustic or electric power
	intensity.
dBA	A-weighted decibel, an expression of the
	relative loudness of sounds as perceived by
	the human ear.
DC	Direct Current, an electrical current which
	flows consistently in one direction.
Decarbonization	The process of reducing or eliminating
	carbon dioxide emissions, often related to
	transitioning from fossil fuel-based energy to
	renewable energy sources.
Decarbonization Goals	Strategies aimed at reducing carbon dioxide
	and other greenhouse gas emissions to
	combat climate change.



Decommissioning	The process of removing offshore wind turbines and associated infrastructure at the end of their operational life, including environmental remediation of the site.
Demersal Organisms	Bottom dwelling species that exist and consume in the open water column at the ocean floor.
Displacement	The movement of birds or bats from their original habitat due to the presence of offshore wind structures, which can impact their foraging and roosting behaviors.
DOE	U.S. Department of Energy
Domestic Content	The proportion of materials, components, or labor sourced domestically within a country rather than imported.
E-TWG	Environmental Technical Working Group
EA	Environmental Assessment
Economic Development	Activities aimed at improving the economic
	well-being and quality of life in a specific
	area, including job creation, infrastructure
	development, and investment promotion.
Economic Impact	Effects on financial aspects such as costs, prices, investments, and employment.
Ecosystem Impacts	Effects on the overall biological community
Leosystem impacts	and interactions between organisms and
	their environment.
Ecosystem-Based Approach	An approach to natural resource management that considers the interconnectedness of species, habitats, and human activities, promoting holistic conservation and sustainable development.
EFH	Essential Fish Habitat, areas critical for the growth and survival of fish species.
EFs	Static Electric Fields, electric fields that remain constant over time, typically associated with high-voltage power transmission.
EIA	Environmental Impact Assessment, a study conducted to evaluate the potential environmental effects of an offshore wind project, including its impact on marine ecosystems, wildlife, and habitats.



EIS	Environmental Impact Statement
EMFs	Electromagnetic Fields, areas of electrical and magnetic energy associated with electrical power and various sources of lighting, including both natural and human-made sources.
Energy Efficiency	Using less energy to perform the same tasks or achieve the same level of output, reducing overall energy consumption and associated emissions.
Energy Generation Diversification	The strategy of using a mix of energy sources, such as wind, solar, and hydroelectric power, to reduce reliance on fossil fuels and decrease carbon emissions.
Entanglement	When marine mammals or sea turtles become entangled in fishing gear or marine debris.
Environmental Monitoring	The process of gathering data about the environment to assess its health and potential impacts on wildlife and ecosystems.
EPA	The U.S. Environmental Protection Agency,
ESA	Endangered Species Act, U.S. legislation aimed at protecting endangered and threatened species and their habitats.
Estuarine Habitats	Habitats where freshwater from rivers and streams meets and mixes with saltwater from the ocean.
Export Cable	A cable that connects the offshore substation to an onshore substation, transmitting the electricity generated by the wind farm to the electrical grid on land.
FAA	Federal Aviation Administration
Fish Aggregations	Concentrations of fish species in specific areas, including spawning grounds, feeding areas, and migration routes, which may intersect with offshore wind energy zones.
Fish Migration	The movement of fish from one area to another, often related to seasonal changes, feeding habits, or reproduction.
Fisheries Displacement	The movement of fishing activities from one area to another.



Fisheries Impact	Effects on commercial and represtional
Fisheries Impact	Effects on commercial and recreational
	fishing activities, including changes in fish
	behavior, migration patterns, and habitat
Et l. 1 A4	use.
Fisheries Management	The science-based regulation and oversight
	of fishing activities to ensure sustainability
	and conservation of fish stocks and marine
	ecosystems.
FLO	Fisheries Liaison Officer, individual/s
	responsible for facilitating communication
	and addressing concerns between offshore
	wind developers and fishing communities.
Floating Wind Turbine	A type of offshore wind turbine that is not
	fixed to the seabed but instead floats on the
	water's surface, anchored in place by
	mooring lines.
Food Insecurity	The lack of consistent access to enough food
·	for an active and healthy life, which can be
	exacerbated by climate-related factors like
	droughts and water scarcity.
Food Web Dynamics	Interactions between fish, invertebrates,
,	plankton, and other organisms in marine
	food webs.
Foraging Grounds	Areas in the ocean where sea turtles feed on
	seagrass, algae, jellyfish, and other prey
	species.
Fossil Fuels	Non-renewable energy sources such as coal,
. 655 465	oil, natural gas, and propane that are formed
	from ancient organic matter and used for
	energy production.
Foundation	The structure that supports a wind turbine in
Touridation	the seabed, providing stability and anchoring
	the turbine.
G	Gaussmeter, the strength or intensity of
J	magnetic fields.
CDD	
GDP	Gross Domestic Product, the total value of
	goods and services produced within a
	country, indicating economic performance.
Geophysical Exploration	Surveying and mapping of the Earth's natural
	features using physical methods such as
	seismic surveys or high-resolution geographic
	(HRG) surveys.



GHG	Groophouse Gases, gases such as carbon
dnd	Greenhouse Gases, gases such as carbon dioxide (CO2), methane (CH4), and nitrous
	, , , , , , , , , , , , , , , , , , , ,
	oxide (N2O) that trap heat in the Earth's
	atmosphere, contributing to the greenhouse
	effect and global warming.
Global Average Temperatures	The average temperature across the entire
	Earth, calculated by combining temperatures
	from various locations and times.
Global North	Refers to the northern hemisphere of the
	Earth, which contains the majority of land
	and vegetation.
Global Sea-Surface Temperatures	The average temperature of the Earth's
·	oceans at the surface level, influenced by
	various factors including greenhouse gas
	emissions.
Greenhouse Effect	The process by which greenhouse gases trap
Greenibuse Effect	heat in the Earth's atmosphere, leading to
	. ,
Cusanhawaa Basiada	warming of the planet's surface.
Greenhouse Periods	Intervals of geological time characterized by
	warmer global temperatures and less
	extensive ice cover.
Grid Connection	The connection between the offshore wind
	farm and the onshore electrical grid,
	including the infrastructure and systems
	needed to transmit electricity reliably and
	efficiently.
GW	Gigawatt, a measure of electricity equal to 1
	billion watts.
GWh	Gigawatt Hour, a measure of electricity
	generation of 1 GW produced over one hour.
Habitability	The suitability of a planet or environment to
,	support life, including factors such as
	temperature, atmosphere, water, and
	resources.
Habitat Disturbance	Disruption or alteration of natural habitats,
Habitat Disturbance	
	which can impact ecosystems and species
Haliford Francisco de Maria	living in those habitats.
Habitat Fragmentation	The division of continuous habitats into
	smaller, isolated patches, which can occur
	due to coastal development and
	infrastructure projects.



Habitat Loss	The reduction or degradation of natural
Traditat LO33	habitats, including seagrass beds, coral reefs,
	and rocky substrates.
Habitat Modification	Alterations to underwater habitats which can
	impact fish and invertebrate communities.
Habitat Suitability	The degree to which an area provides
Habitat Suitability	
	conditions necessary for the survival and
LIADC	reproduction of a particular species.
HAPC	Habitat Areas of Particular Concern, subsets
	of EFH that are rare, especially vulnerable,
	stressed by development, or provide
	important ecological functions for federally
LIDD	managed species.
HDD	Horizontal directional drilling, a method of
	installing cables underground without
	disturbing sensitive habitats.
Heat Trapping Capacity	The ability of a greenhouse gas to absorb and
	retain heat in the Earth's atmosphere.
Heatwaves	Extended periods of excessively hot weather,
	which can pose health risks and strain
	infrastructure like power grids.
Helmholtz Resonators	Devices used to dampen sound waves.
Historic Resources	Sites, buildings, or areas with cultural or
	historical significance that require protection
	and consideration in development projects.
HRG	High-resolution geographic surveys,
	conducted in siting evaluations for offshore
	wind development, use a suite of active
	sound sources that are reflected off subsea
	structures to obtain images of the seafloor
	and shallow geophysical features.
HVDC Lines	High-voltage direct current lines used to
	transmit large amounts of energy over long
	distances, often employed in offshore wind
	energy transmission.
Hydrodynamic Changes	Alterations to water flow patterns, currents,
	and sediment transport.
Hydrodynamic Wakes	Wakes created by wind turbines offshore
	that interact with water and oceanographic
	processes.
Hydrothermal Vents	Openings in the seafloor that emit hot,
,	mineral-rich water.
	Timicial Flori Wateri



Hz	Hertz, SI unit of frequency, equivalent to one
··-	event (or cycle) per second.
Ice Ages	Periods of geological time characterized by
ice Ages	widespread glaciation and lower global
	temperatures.
Ice Cores	Cylindrical samples of ice drilled from glaciers
ice cores	· · · · · · · · · · · · · · · · · · ·
	or polar ice caps, used to study past climate
	conditions by analyzing trapped air bubbles
LOTE	and isotopic composition.
ICES	International Committee on Electromagnetic
LONGO	Safety
ICNIRP	International Commission on Non-Ionizing
	Radiation Protection
Impact Pile Driving	A method of installing structures by driving
	piles into the seabed, creating intense low-
	frequency impulsive noise.
Impingement and Entrainment	The trapping and drawing in of organisms by
	intake structures.
Infrared Radiation	Electromagnetic radiation with longer
	wavelengths than visible light, associated
	with heat and thermal energy.
Infrared Reflection	The bouncing back of infrared radiation from
	surfaces or atmospheric particles,
	contributing to the greenhouse effect.
Interarray Cables	Cables that connect individual wind turbines
	within a wind farm to the offshore
	substation, allowing for the collection and
	transmission of electricity.
Invasive Species	An organism that is not indigenous, or native,
	to a particular area.
Invertebrates	Animals lacking a backbone or internal
	skeleton, such as crustaceans, mollusks, and
	worms.
IPCC	Intergovernmental Panel on Climate Change
IRA	Inflation Reduction Act, legislation or policy
	initiatives aimed at reducing the impact of
	inflation on economic activities, including
	measures related to workforce development
	and job creation.
Isolation Casings	Protective casings designed to minimize
	noise emissions during pile driving.



ITC	Investment Tax Credit, a tax credit that
	offsets a portion of the capital costs incurred
	•
Lasket Farm dation	in constructing renewable energy projects.
Jacket Foundation	A type of offshore wind turbine foundation
	that consists of steel lattice structures
	resembling a jacket, providing stability in
	deeper waters.
КОР	Key Observation Point, a specific location
	identified for observing and evaluating visual
	impacts.
kV	Kilovolt, a unit of electromotive force equal
	to 1000 volts.
kV/m	Kilovolt per metre or 1000 volts per metre.
Landscape Impact Assessment	Evaluation of how a development project
	affects the physical and aesthetic aspects of
	the land.
Larval Stages	Early developmental stages of marine
	organisms.
LCOE	Levelized Cost of Energy, a measure of the
	average cost of generating electricity from a
	particular energy source over its lifetime,
	often used to compare the economic viability
	of different energy technologies.
Life Cycle Assessment	Evaluation of the environmental impact of a
	product or process throughout its entire life
	cycle, from raw material extraction to
	disposal.
Light Pollution	Artificial light from coastal developments or
	offshore installations.
Localized Changes	Changes that occur within a specific area or
	region.
Macro-Avoidance	A type of avoidance behavior where birds or
	bats fly around the entire set of wind
	turbines, avoiding the farm as a whole.
Marine Ecosystem	The interconnected system of living
•	organisms and their environment within
	marine or saltwater habitats, including
	oceans, seas, and estuaries.
Marine Resources	Living and non-living components of marine
	ecosystems, including fish, habitats, and
	minerals.
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Marine Spatial Planning	The systematic process of allocating and
iviaime Spatiai riainiing	managing marine resources and activities to
	achieve ecological, economic, and social
NA Assistance	objectives, while minimizing conflicts.
Meso-Avoidance	A type of avoidance behavior where birds or
	bats use flight maneuvers to dodge individual
	turbines within a wind farm.
Methane	A greenhouse gas that is even more potent
	than CO2 in terms of heat trapping capacity,
	with about 80 times the potency of CO2 over
	a 20-year period.
MFs	Magnetic Fields, areas of magnetic energy
	generated by electrical currents or moving
	electric charges, such as those associated
	with power cables.
mG	Milligauss, a thousandth of a gauss (equal to
	0.1 microtesla).
Micro-Avoidance	A type of avoidance behavior where birds or
	bats make last-minute flight adjustments to
	avoid colliding with turbine rotor blades.
Migration Route	The path a species follows during their
•	seasonal migrations, which may intersect
	with offshore wind energy zones.
Migratory Corridors	Pathways used by migratory species during
	seasonal movements which may overlap with
	offshore wind farm locations.
Mitigation Innovations	New technologies or practices aimed at
With Batteri Hillovations	reducing impacts.
Mitigation Measures	Strategies and actions implemented to
ivinigation ivicasures	minimize or offset negative impacts of
	offshore wind energy, often required by
	regulatory agencies during development
NANAC	projects.
MMC	Marine Mammal Commission
MMPA	Marine Mammal Protection Act, U.S.
	legislation aimed at protecting marine
	mammals from harm due to human activities
	such as hunting, harassment, or capture.
Monopile	A type of foundation for offshore wind
	turbines that consists of a single large steel
	pile driven into the seabed.



Mortality Assessment	Methods and studies used to evaluate the
,	impact of wind turbines on bird and bat
	mortality rates.
MPA	Marine Protected Area, designated zone/s
	where human activities are regulated to
	conserve marine biodiversity, including areas
	important for fish spawning, nursery
	habitats, and invertebrate communities.
MSA	Magnuson-Stevens Fishery Conservation and
	Management Act, a U.S. law governing
	marine fisheries management in U.S. federal
	waters.
MW	Megawatt, a measure of electricity equal to 1
	million watts.
MWh	Megawatt Hour, a measure of electricity
	generation of 1 MW produced over one hour.
NABTU	North America's Building Trades Unions
NARW	North Atlantic right whale
NASA	National Aeronautics and Space
	Administration
NASEM	The National Academies of Sciences,
	Engineering, and Medicine
Nature-Inclusive Designs	Designs that promote habitat creation and
	species support within infrastructure.
Navigational Safety	Concerns related to the safe navigation of
	vessels, including potential hazards or
	obstacles such as offshore wind structures.
NCCOS	National Centers for Coastal Ocean Science
NCEI	National Centers for Environmental
	Information
NEPA	National Environmental Policy Act, U.S.
	legislation that requires federal agencies to
	assess the environmental effects of their
	proposed actions prior to making decisions.
Neritic Zone	The shallow part of the ocean extending to
	about 660 feet deep.
Nesting Habitat	The beach or coastal area where female sea
	turtles lay their eggs during nesting season,
	which can be impacted by coastal
	development and human activities.
NGO	Non-governmental organization



NHPA	National Historic Preservation Act, U.S.
NIIA	legislation aimed at preserving historic and
	cultural resources.
NIEHS	National Institute of Environmental Health
MENS	Sciences
NIOSH	National Institute for Occupational Safety
MOSII	and Health
NOAA	National Oceanic and Atmospheric
NOA	Administration
NOAA Fisheries	National Oceanic and Atmospheric
NOAA FISHCIES	Administration Fisheries
Noise Pollution	Noise generated by offshore construction
Noise Foliation	activities, vessel traffic, and operational
	machinery.
NOWRDC	National Offshore Wind Research and
NOWNEC	Development Consortium
NPDES	National Pollutant Discharge Elimination
141 523	System
NRDC	Natural Resources Defense Council
NREL	National Renewable Energy Lab
O&M	Operations and Maintenance, activities
COLIVI	involved in the ongoing operation, upkeep,
	and servicing of offshore wind turbines and
	associated infrastructure.
Ocean Acidification	The process by which CO2 dissolves in
- Cocan Acian Cacion	seawater, lowering its pH and making it more
	acidic, which can harm marine life, especially
	those that build calcium carbonate shells.
Ocean Hydrodynamics	The movement and circulation of ocean
	water.
Oceanic Zone	The deeper part of the ocean beyond the
	neritic zone.
ocs	Outer Continental Shelf
OCSLA	Outer Continental Shelf Lands Act, defines
	the OCS as all submerged lands lying seaward
	of state coastal waters (3 miles offshore)
	which are under U.S. jurisdiction.
Offshore Substation	A facility located on the offshore wind farm
	that collects electricity from multiple
	turbines and transforms it to a higher voltage
	for transmission to shore.



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Offshore Wind Activities	Operations related to the development,
	construction, and operation of offshore wind
	energy projects.
Offshore Wind Careers	Employment opportunities within the
	offshore wind industry, including roles in
	engineering, construction, operations, and
	maintenance.
Offshore Wind Development	The process of planning, constructing, and
	operating wind farms in offshore locations to
	generate electricity.
Offshore Wind Energy	Electricity generated from wind turbines
o,	located in offshore areas, harnessing wind
	power to produce renewable energy.
Offshore Wind Farm	A collection of wind turbines located
	offshore, designed to generate electricity
	from wind energy.
Offshore Wind Resource Assessment	Studies and analyses conducted to assess the
Onshore wind nessearce /issessment	potential wind energy production at a
	specific offshore location, considering factors
	such as wind speeds, wave conditions, and
	seabed characteristics.
Offshore Wind Turbines	
Offshore wind furbilles	Equipment used to capture wind energy
	offshore, consisting of components like
	blades, nacelles, towers, and foundations.
Offshore Wind Workforce	The collective group of individuals involved in
	offshore wind projects, including developers,
	engineers, technicians, and other
	professionals.
Onshore Converter Station	A specialized type of substation which
	converts electricity before passing through
	main substations on to the grid.
OSHA	Occupational Safety and Health
	Administration
OSW	Offshore Wind
PAM	Passive Acoustic Monitoring, monitoring
	technique using underwater sound to detect
	marine mammals and sea turtles.
Paris Climate Accord	An international agreement within the
	United Nations Framework Convention on
	Climate Change (UNFCCC) aimed at reducing
	greenhouse gas emissions and limiting global



	temperature rise to well below 2°C above
	pre-industrial levels.
Peaker Plants	
Peaker Plants	Power plants designed to meet peak
	electricity demand, often using fossil fuels
	and operating intermittently.
Pelagic Species	Fish and invertebrates found in the open
	water away from the seafloor.
Pelagic Zone	Also known as the open ocean or open water
	column, is the area of the ocean outside of
	coastal areas and above the seafloor.
Phytoplankton	Microscopic drifting algae that form the base
	of the marine food chain and absorb carbon
	dioxide.
Pitch System	The mechanism that adjusts the angle of the
·	rotor blades to optimize energy production
	based on wind conditions.
PLA	Project Labor Agreement, collective
	bargaining agreement/s between a union and
	an employer that outline the terms of
	employment for workers involved in
	construction and other project-related
	activities.
Plankton	Tiny drifting organisms, including
FIGUREOU	phytoplankton and zooplankton, that are
	incredibly important to the ocean ecosystem,
	and very sensitive to changes in their
	environment, including in the temperature,
	salinity, pH level, and nutrient concentration
	of the water.
PM2.5	Particular Matter 2.5, fine inhalable particles
	with diameters that are generally 2.5
	micrometers and smaller.
PNNL	Pacific Northwest National Laboratory
Ports and Staging	Facilities and activities related to the
	handling, storage, and transportation of
	goods and equipment, often associated with
	maritime operations.
PPA	Power Purchase Agreement, contract/s
	between energy buyers and sellers specifying
	terms for purchasing electricity.
PPM	Parts per Million, a unit of measurement
	used to express the concentration of a
	asea to express the concentration of a



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	substance in the atmosphere, indicating the number of molecules of that substance per million molecules of air.
Pre-Industrial Levels	Refers to the global climate conditions before the widespread use of fossil fuels, often used as a baseline for measuring climate change impacts and setting targets for emissions
Project WOW	reductions. Project Wildlife and Offshore Wind, Duke University
PSO	Protected Species Observer, trained individuals tasked with monitoring and mitigating risks to marine protected species during offshore wind activities to ensure compliance with regulations.
PTC	Production Tax Credit, a tax credit provided to renewable energy producers based on the amount of electricity generated.
PTS	Permanent Threshold Shift, long-term or permanent changes in hearing sensitivity due to prolonged exposure to loud sounds.
Ratepayers	Customers who pay utility bills for electricity or other services.
Real-Time Monitoring	Continuous monitoring in real-time to detect and respond to environmental changes or risks.
Recolonization	The process of organisms returning to an area after disturbance.
Reef Effect	The phenomenon where man-made structures in water create habitats that attract marine life, leading to increased biodiversity and productivity.
Regional Effects	Effects on a larger scale, such as alterations in ocean circulation patterns.
Renewable Energy Resources	Energy sources that are naturally replenished and have a lower environmental impact compared to fossil fuels, such as wind, solar, hydroelectric, and geothermal energy.
RISEE Act	The Reinvesting in the Shoreline Economies and Ecosystems Act, legislative proposal aimed at funding coastal infrastructure and



	resilience projects to mitigate climate change
	impacts.
RODA	Responsible Offshore Development Alliance
ROSA	Responsible Offshore Science Alliance
Rotor Blades	The large blades attached to the rotor of a
	wind turbine that capture the wind's energy
	and convert it into rotational motion.
Rotor Sweep Zone	The area swept by the rotating blades of a
	wind turbine, where collision risks are
	highest for birds or bats flying within this
	zone.
RWSC	Regional Wildlife Science Collaborative for
	Offshore Wind
Scour Protection	Measures taken to prevent erosion of the
	seabed around offshore wind turbine
	foundations, often using rock or concrete
	armor.
Sea Turtle Monitoring	The systematic observation and data
	collection on sea turtle populations,
	behaviors, and threats, often conducted by
	researchers, conservation organizations, and
	government agencies.
Sea-level Rise	Increase in global sea levels due to thermal
	expansion and melting ice from glaciers and
	polar ice caps.
Seabed Disturbance	Disruption or alteration of the seafloor
	caused by human activities, such as dredging,
	which can impact benthic habitats and
	species.
Seabirds	Birds that rely on marine environments for
	their habitat.
Seagrass Beds	Areas with dense underwater grasses that
	serve as habitat for many marine species.
Seascape	The visible features of a coastal or marine
	area, including the ocean surface and
	shoreline.
Sediment Transport	The movement of sediment particles (such as
	sand, silt, and clay) by water currents, waves,
CEED	and tides within marine environments.
SEER	Synthesis of Environmental Effects Research
SI	International System of Units



Skilled Labor	Workers who have specialized training,
	expertise, or experience in specific fields or
	trades, often requiring technical or practical
	knowledge.
Solar Absorption	The process by which dark surfaces absorb
	solar radiation, converting it into heat.
Solar Radiation	Energy from the sun in the form of
	electromagnetic radiation, including visible
	light and ultraviolet (UV) radiation.
Stakeholder Engagement	Involving individuals, organizations, or
	communities with vested interests or
	concerns in a project to gather feedback,
	address concerns, and foster collaboration.
Storm Intensity	The strength and severity of storms, such as
	hurricanes, which can increase due to climate
	change.
Stranding Events	Instances where marine mammals or sea
	turtles become stranded or injured along
	coastlines, often due to entanglement,
	pollution, or other human-related factors.
Submarine/Subsea Power Cables	Cables used to transmit electricity
	underwater, used for intra-turbine, array-to-
	transformer, and transformer-to-shore
	transmissions in offshore wind farms.
Subtidal Zone	The area below the low tide mark, typically
	submerged underwater, where marine life
	and habitats are influenced by tidal
	movements and currents.
Supply Chain	The network of entities involved in producing
	and delivering goods or services, affecting
	project costs and timelines.
Т	Tesla, the SI unit used to measure the
	strength of magnetic fields.
Tax Credits	Financial incentives provided by governments
	to encourage specific activities, such as
	renewable energy production.
Thermal Habitat Modeling	Predictive models of how temperature
	changes affect habitats.
Thermohaline Circulation	Deep ocean currents driven by temperature
	and salinity differences.



Tidal Energy	Energy generated from the movement of
<i>U</i> ,	tidal waters, which can be harnessed using
	turbines similar to those used in wind energy.
TSO	Transmission System Operator, entity
	responsible for managing the flow of
	electricity within a power grid.
TTS	Temporary Threshold Shift, short-term
	changes in hearing sensitivity that recover
	after exposure to loud sounds ceases.
Turbidity	Cloudiness of water due to suspended
,	particles.
Turbine Nacelle	The housing at the top of a wind turbine
	tower that contains the generator, gearbox,
	and other key components.
Turbine Scale	Effects related to individual wind turbines,
	such as turbulent mixing.
TWG	Technical Working Group
Underwater Noise	Sound produced underwater, including from
	construction activities, vessel traffic, and
	operational machinery.
UNFCCC	United Nations Framework Convention on
	Climate Change
USCG	U.S. Coast Guard
USGS	U.S. Geological Survey
V	Volt, the unit of electric potential, electric
	potential difference (voltage), and
	electromotive force in SI.
Vessel Strikes	Collisions between marine animals such as
	whales or sea turtles and vessels, which can
	cause injury or mortality.
Viewshed	The visible area or landscape that can be
	seen from a specific vantage point.
Visual Impact	The effect that a structure or development
	has on the appearance or aesthetics of its
	surroundings.
Visual Simulation	Creation of digital representations or models
	to predict and assess visual impacts.
Vulnerable Species	Species that are at risk of extinction or
	significant population decline due to various
	factors such as habitat loss, pollution, or
	climate change.



Water Column	The water column extends from the ocean
	surface to the seafloor.
WEA	Wind Energy Area
Weather	Day-to-day atmospheric conditions such as
	temperature, humidity, precipitation, and
	wind speed in a specific location.
WHO	World Health Organization
Wind Farm Scale	Cumulative effects of multiple turbines, such
	as changes in ocean currents.
Workforce Training	Programs or initiatives designed to equip
	individuals with the skills, knowledge, and
	certifications necessary for specific jobs or
	industries.
WREN	Working Together to Resolve Environmental
	Effects of Wind Energy
WTG	Wind Turbine Generator
Yaw System	The mechanism that allows a wind turbine to
	turn and face the wind for optimal energy
	capture.
Zooplankton	tiny animals and larvae that drift in the ocean
	and are an important part of the marine food
	web.
μТ	Microtesla, a SI unit of magnetic flux density
	equal a millionth of a tesla.