



GWEC

GLOBAL WIND ENERGY COUNCIL



Bringing industry, governments and institutions together to deliver wind energy as a key climate solution

WHY WIND?

Wind energy is one of the most competitive, mature and quickly deployable energy technologies we have today.

Wind energy is the backbone of the energy transition. Onshore and offshore wind will be the foundations of the modern energy system, and will define the renewables era. Wind energy is one of the most competitive, mature and quickly deployable energy technologies available today. **A wind farm can move from new policy to turbines in the ground within 18 months**, delivering jobs and industry as well as clean energy.

Wind is deployed at scale. That means it can deliver the capacity to decarbonise economies and deliver energy security. Delivering wind energy means delivering on emissions reduction targets and achieving energy independence.

All roadmaps to net zero show that **annual wind installations must quadruple from current levels by 2030** to get on track for our Paris Agreement targets. By 2050, wind energy must generate more than more than 35% of global electricity, up from 6% today.

GWEC helps companies, communities and policy makers work together to deliver the energy transition.



A JUST TRANSITION

Governments must develop cohesive and inclusive policies to enact a just and equitable energy transition.

An energy transition that delivers on the 1.5°C target doesn't just deliver climate goals, it delivers net-positive socio economic effects too.

"The energy transition can be a means for job creation, an inclusive economy and a more equal world," according to the International Renewable Energy Agency (IRENA)

GWEC and the wind industry supports this economic development by working with governments and communities to ensure alignment between energy, climate, trade and industrial development policies. This will ensure that we create localised, fair and sustainable value from the energy transition.

The wind sector drives a transition for all. It provides opportunities for reskilling and workforce support to bring green jobs to those leaving the fossil fuel and ancillary sectors.



 **IRENA**
International Renewable Energy Agency

 IRENA
Global Offshore Wind Alliance (GOWA)
Offshore Wind: A Key Solution
to the Climate Change and Energy Security Crises
Yusuf M. M. El-Sherpieny
23.10.2023

WHO WE ARE



The Global Wind Energy Council (GWEC) is the representative trade association for the global wind power industry.

GWEC represents the wind power industry 900,000+ people in 80 countries

1,500+
members from
across the wind
energy sector

Including:

- Manufacturers
- Developers
- Component suppliers
- Research institutes
- National wind and renewables associations
- Electricity providers
- Finance and insurance companies

**GWEC's
membership has
installed over
70% of the
world's total
wind capacity**

GWEC helps create, build and assist wind power and renewables associations around world, and works with organisations such as:

Wind Europe
American Clean Power Association
China Wind Power Association
CREIA
Africa Wind Power
ABEEólica
Ser Colombia
AMDEE
SAWEA
JWPA
ACER

**Coordinating
the voice of
wind power**





OUR MISSION

GWEC's members have installed over 70% of the wind power capacity in the world, and its corporate members are the leading wind companies in the global market, including large global turbine manufacturers, international energy companies, developers and specialist technology providers and consultancies.

Our mission is to ensure that wind power fulfils its role as one of the key technology solutions to today's energy and climate challenges, forming the backbone of a new clean energy system and enabling trillions of dollars of investment while providing substantial economic and social benefits.

GWEC acts as the global voice of the wind industry, working with institutions such as the UN, IRENA, the IEA and multilateral development banks to support governments and policymakers, providing them with the network, expert knowledge and data which allows them to ensure the full potential of wind energy is realised.

GWEC represents the wind industry at key international events such as COP, the G20, UNGA and other forums, working with governments, institutions, civil society organisations and our fellow renewable energy technologies to ensure that the policy issues crucial to the energy transition are understood and acted upon.

GLOBAL LEADERS

Vestas[®]

SIEMENS
ENERGY



Ørsted



GE Renewable Energy



CORIO



ReNew
POWER



BOARD MEMBERS



OUR MEMBERS

LEADERS: Copenhagen Infrastructure Partners, Corio, Equinor, GE Renewable Energy, Iberdrola, Mainstream Renewable Power, Ørsted, Shell, Siemens Gamesa, Vestas. **INFLUENCERS:** Acciona, Actis, ACWA POWER, Aker Offshore Wind, bp, CRRC YONGJI, DNV, EDPR, Enel Green Power, ENERCON, GOLDWIND, Gulf Energy Development, Mingyang, Nordex, Ocean Winds, ReNew Power, RWE, SANY, Scatec, Shanghai Electric, SSE Renewables, The Lincoln Electric Company, TotalEnergies. **PLAYERS:** ABL Group, Aeris Energy, Allens, Bachmann Electronic, Baetr, BlueFloat Energy, Bonfiglioli, Bureau Veritas, Carbon Trust, Climate Fund Managers, DuPont, Gazelle Wind Power, GustoMSC, Hexagon, Infinity Power, Ingeteam, Inovance, Invenergy, IPC Group, JERA, K2 Management, Korea Hydro & Nuclear Power, Kuehne + Nagel, Lekela Power, Levanta Renewables, Linklaters, LM Wind Power, Minh Hoang Trading and Transportation, Mitsui O.S.K. Lines, NRG Systems, Oceanex Energy, Orient Cable, Parkwind, PECC4, PNE AG, PolyTech, Principle Power, Ramboll, RINA, RPS Energy, Sedna Wind Technologies Inc., SGB-SMIT Group (Starkstrom), Simply Blue Energy, Skyborn Renewables, Technip Energies, Techstorm Advanced Material, The Blue Circle, Tractebel, Turner & Townsend Energy, UPC Renewables, Venterra, Vietsovetro, Windlab, Windlab /Seriti Green, Worley, Zurich Insurance. **SUPPORTERS:** AES Vietnam, AFRY, Akselos, AlphaNDT, ArcVera Renewables, ARMSA Academy, Asia Connecting Center, Axis Capital, Azure International, Banpu NEXT, Becker Büttner, Held, Brayfoil Technologies, Brinckmann, BVG Associates, CEJN, Cerulean Winds, Coalesce Management Consulting, Corrosion, Covestro, Eastman Machine Company, Elpress, Enerfín, ENERGÍAS DEL PLATA, Enterprize Energy, Eoliasur, EOLOS, Etha Wind, EWI, EXSTO, FDH Infrastructure Services, Fraunhofer IWES Nordwest, FTI Consulting, Hamburg Messe und Congress, HARTING, HBA Offshore, Henkel, Hero Future Energies, Howmet Aerospace, IBS Software, Ideol, InterContinental Energy, International SOS, Kavaken, Kintech Engineering, Kshema Power, Kuiper Group, MAKE | Wood Mackenzie, Malaysia Marine and Heavy Engineering (MMHE), Marco Polo Marine Group / PKR Offshore, Marshal Funds, MEC +, MEGAJOULE SA, Messe Husum & Congress, METEODYN, Miba, MML Solutions, Moorsure, Nabrawind, NES Fircroft, NextWave Partners, Nishio Rent All Vietnam, Noatum Project Cargo, Offshore Energy Installation, Okuma Europe, PETRONAS, Ping Services, POSH Semco, Q.I.S - NON-DESTRUCTIVE TESTING SERVICES CO. LTD, Qair, RelyOn Nutec, Reneum Institute, Renewables Consulting Group (RCG), Renovatio, Resolux, Rotork, Roxtec, Rystad Energy, Stiesdal Offshore, Sunny Lion, Supernode, Taiwan International Ports Corporation (TIPC), TERNA ILIAKI PANORAMATOS SA, The Lantau Group, Titan Group, TNG Holdings, Utopus Insights, Vertiv, Vivablast, Vortex, WindESCo, Xodus Group, ZX Lidars. **ASSOCIATIONS:** Abbeolica, American Clean Power Association, Asociación Mexicana de Energía Eólica (AMDEE), Assoc. Nazionale Energia del Vento (ANEV), AUDER, Bundesverband Windenergie E.V. (BWE), Cámara Eólica Argentina (CEA), Chinese Wind Energy Equipment Association (CWEEA), Clean Energy Council, DANISH WIND INDUSTRY ASSOCIATION (Wind Denmark), Ember, Global Wind Organisation (GWO), Holland Home of Wind Energy (HHWE), Indian Wind Turbine Manufacturers Association (IWTMA), International Marine Contractors Association (IMCA), Japan Wind Power Association (JWPA), Mongolian Wind Energy Association, Norwegian Energy Partners (NORWEP), ORE Catapult, RenewableUK, Scottish Development International, SER Colombia, South African Wind Energy Association (SAWEA), The Business Network for Offshore Wind, Turkish Wind Energy Association (TWEA), VDMA Power Systems, WindEurope



WHAT WE DO



POLICY AND ADVOCACY

GWEC advocates for policies and regulations that support the growth of the wind energy industry.

GWEC has an excellent network of high level relationships across governments, industry and key institutions.

BUSINESS DEVELOPMENT

GWEC creates the right environments to discuss challenges, find solutions—and network.

GWEC's conferences, workshops and webinars are exclusive forums for sharing international expertise, developing business relationships and getting access to new markets.

CAPACITY BUILDING

GWEC provides resources, training, and networking opportunities for businesses and organisations to develop the skills and knowledge needed to establish local markets.

GWEC also facilitates the transfer of skills and technologies between local stakeholders and international players.

INFORMATION AND EDUCATION

GWEC produces research and analysis bringing industry knowledge to the public.

GWEC Global Wind Report offers the most authoritative analysis, review and forecast of the industry, and GWEC Market Intelligence provides regular insights on the development of the sector, including market outlooks, country profiles, policy updates, and deep-dives on the offshore market.

REPRESENTING THE WIND INDUSTRY ON A GLOBAL STAGE

The Global Wind Energy Council is the platform for the wind industry to engage on the international stage.

The GWEC team has led delegations at [UNFCCC COPs](#), [SE4ALL](#) and [IRENA's General Assembly](#). GWEC has also provided expertise to panels at the [UN General Assembly](#) and to the [International Energy Agency](#).

This involvement is only increasing as the energy transition builds, with GWEC now leading initiatives in offshore wind with [IRENA](#) and the [Danish Government](#) (read more about the Global Offshore Wind Alliance further on in this document) and preparing the largest-ever Renewables presence at a [COP28](#) in Dubai this year. GWEC is an official observer to the [UNFCCC](#) process, and this year we plan to bring in the whole renewable sector to support this year's talks.

In 2023, GWEC is representing the wind industry at the [IRENA General Assembly](#) in Abu Dhabi, and will be joining the [G20 Energy Transition Working Group](#) for India's presidency as a knowledge partner - bringing the wind industry to the centre of discussions this year. We hope to continue supporting the [G20](#) under Brazil's presidency in 2024.

The Global Wind Energy Council is also the apex for relationships between institutions, countries and industry for the [World Bank](#) and the [International Energy Agency](#). GWEC facilitates dialogue, coordinates bilateral meetings and advises key committees.

GWEC has supported international institutions and national governments as they build up their ambition. Over the coming years GWEC will continue to be involved in supporting those implementing their plans. The wind industry can deliver the energy transition, and GWEC plays a pivotal role in assisting that delivery at local, national and international level.





KEY INITIATIVES

GLOBAL OFFSHORE WIND ALLIANCE

The Global Offshore Wind Alliance (GOWA) was founded by Denmark, IRENA, and GWEC with the aim of helping governments across the world deliver the action to back up their offshore wind ambition.

Offshore wind is a vital tool in the race to net zero. The world needs 380 GW installed by 2030, with 2000 GW of capacity required by 2050. To do this, GOWA is also driving the mobilisation of a global community of practice to support the acceleration of policy in this area.

“We see tremendous opportunity embedded in offshore wind. Opportunity that stretches way beyond our coastlines,” Ali Zaidi, President Biden’s Climate Advisor on why the USA joined GOWA

GOWA has already grown to include:

- Australia
- Belgium
- Colombia
- Germany
- Ireland
- Japan
- The Netherlands
- Panama
- State of Victoria
- Romania
- Norway
- Portugal
- Spain
- St Lucia
- UK
- USA
- Brazil
- California
- EU Commission

...With more countries applying, governments join a collective of investors, institutions, developers and technological experts all working to deliver the rapid growth of offshore wind.



GLOBAL RENEWABLES ALLIANCE

The Global Renewables Alliance (GRA) represents one unified voice speaking for the rapid delivery of the energy transition.

The transition will be delivered by a cohesive, collaborative and coordinated renewable sector that drives sustainable development and economic growth.

The Global Renewables Alliance will use the collective weight of its member technologies to overcome the challenges affecting the global energy transition and increase the impact of the renewable voice where fossil fuels are still disproportionately present.

The GRA will use advocacy, education, market intelligence and data and engagement with international energy, economic and environmental institutions to ensure renewable energy is the pillar of the new energy system.



WOMEN IN WIND

A new energy system must be an inclusive and diverse energy system. In 2020 GWEC and IRENA carried out a study that women represented only 21% of the wind energy workforce, and only 8% of senior management roles in the global wind energy sector were held by women. This isn't good enough, and the Women in Wind programme is aiming to change that.

The Global Leadership Program offers mentorship, training and a networking program to advance the role of women as agents of change in society, promote best practices within the wind industry, accelerate the careers of women in the wind industry, support their pathway to leadership positions, and foster a global network of mentorship, knowledge-sharing and empowerment.

Women in Wind graduates have spoken at COP, SE4All and the wind industry's biggest conferences. While the Women in Wind programme's research has fed into the UNFCCC's work on gender and climate change.



OCEAN ENERGY PATHWAY

The Ocean Energy Pathway (OEP) is a large-scale, multi-year initiative to scale offshore wind.

Four core elements set the initiative apart. OEP:

Consolidates and deploys industry-driven expertise and capacity-building

Works in all markets, including OECD, low and middle-income countries

Facilitates collaboration across diverse stakeholder groups

Focuses on sharing and developing human capital, social equity and nature+ projects in the Global South

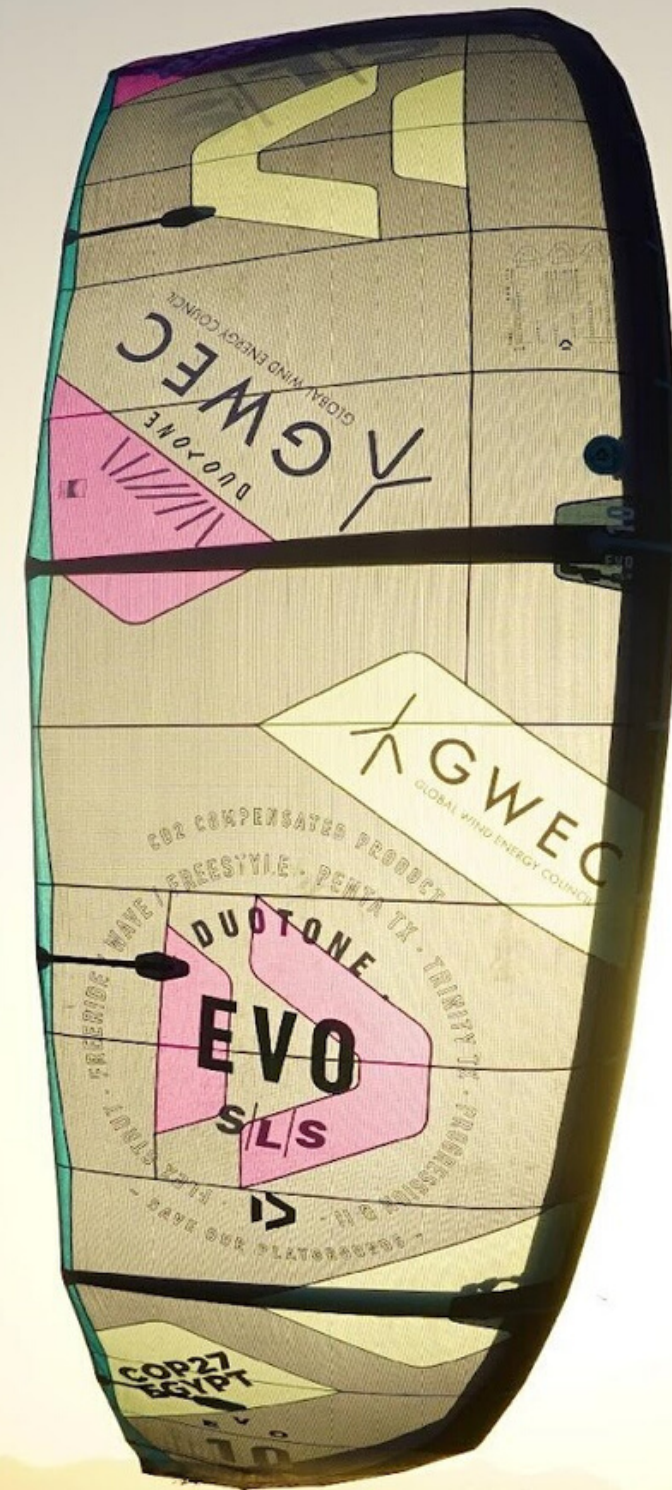
The Ocean Energy Pathway (OEP) is a **new initiative** that aims to rapidly accelerate the deployment of offshore wind, by supporting governments with the right tools, expertise and capacity to **seize the offshore wind opportunity**.

OEP focuses on countries with **high carbon footprints** and at risk of carbon lock-in.

Initial targets include:

- Vietnam
- Indonesia
- Philippines
- India
- Korea
- Japan
- Brazil
- Colombia

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GWEC Ambassador Lewis Crathern in the Red Sea ahead of COP27 in Sharm el-Sheikh