

DOING BUSINESS WITH THE WIND INDUSTRY IN EUROPE LEVERAGE ON SKYMINDER SOLUTIONS

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Wind Industry in Europe Overview

European Citizens are asking more and more Governments to take action about climate change. Connected to this point, is requested to focus on systems able to produce reliable, clean and affordable energy. To achieve those targets, Governments also want to attract investments, make their industry more competitive and drive economic recovery.

EU is working to achieve climate neutrality by 2050 with 50% generated by the wind as the cheapest form of new power generation in Europe able to reduce power bills.

Wind gives Europeans wider social and economic benefits: wind is helping to decarbonize industry. The heavy industry used to worry about the costs of wind and its impact on energy systems. Now they want wind. Companies in chemicals, steel, ICT, aluminum, transport, pharma and food/drink are now sourcing power directly from wind farms on long-term supply agreements.

Wind will be the backbone of Europe's energy system.

Europe needs to accelerate the build-out of wind to deliver the Green Deal ND. The further expansion of wind energy will be driven by new wind farms on new sites. But it also requires significant investment in the repowering and lifetime extension of existing wind farms. Nearly half of Europe's existing wind farms will reach the end of their normal life by 2030.

The expansion of wind industry requires:

- progress on electrification;
- a competitive supply chain;
- the right policies, notably on planning and permitting
- the right energy markets and grids.

Electrification

Electricity is less than a quarter of Europe's energy mix today. The EU wants it to be at least one-half by 2050. 60% electrification would also be realistic, affordable and renewables-based electrification of transport, buildings and industrial processes will drive their decarbonization, boost energy efficiency and unlock the benefits of "sector integration" e.g. using EV batteries as storage;

A competitive supply chain

The huge expansion of wind requires a strong manufacturing base. But the European wind energy supply chain is struggling due to increased international competition and sub-optimal policies in many countries. The EU now recognizes wind energy as a Strategic Value Chain. In this scenario, it's very important to move toward R&D actions.

The right policies

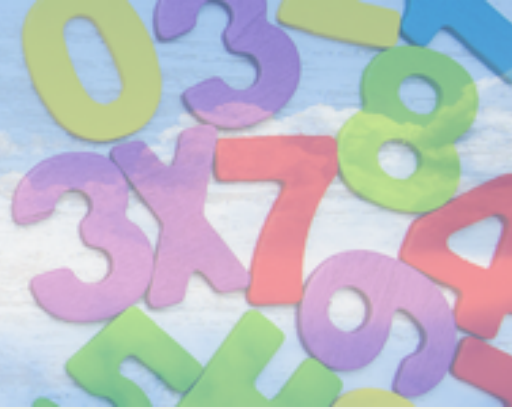
Clearer and simpler rules on the planning and permitting of new and repowered wind farms including minimal restrictions from simpler administrative procedures and adequately staffed permitting authorities;

The right energy market

The expansion, modernization and digitalization of transmission and distribution networks: onshore and offshore; in-country and across borders.

Sources: WindEurope asbl/vzw

Facts and Figures



Wind now meets 16% of Europe's electricity demand and much more in many countries: Denmark 48%; Ireland 38%; Germany 27%; Portugal 24%; Spain 22%. The wind is expected to be the no. 1 of power in Europe by 2027.

The wind is a local energy resource.

- It reduces Europe's energy imports and exposure to volatile fossil fuel prices.
- Wind energy emits zero carbon, SO_x, NO_x or PM.
- Wind energy projects produce ~95% less CO₂ than electricity from gas and ~98% less CO₂ than electricity from coal.
- They consume hardly any water.

Sources: WindEurope asbl/vzw

Impact on economy



The wind is a strategic industry for Europe.

- It is 300,000 quality jobs contribute €37bn to EU GDP.
- Each new turbine generates on average €10m economic activity.
- European wind turbine manufacturers have a 42% share of the global market for wind turbines. Of the 10 biggest wind turbine manufacturers in the world, 5 are EU-based.
- Its 248 factories are all over Europe including in economically-deprived regions.
- Wind is a major European exporter: half the world's wind power comes from turbines made by European companies.

Sources: WindEurope asbl/vzw

Impact on environment

Wind is a clean, free, and readily available renewable energy source. In 2019 wind energy saved 118 million tonnes of CO₂ in Europe and could save up to 270 million tonnes in 2030 – the equivalent of Spain's annual CO₂ emissions.

Wind does not need to be mined or shipped and the more we use, the closer Europe gets to real energy independence. Operating wind turbines do not emit greenhouse gases

Wind energy's water footprint is almost zero, unlike most other forms of electricity generation.

Although there are CO₂ emissions associated with the construction, transport, operation and dismantling of wind turbines these emissions are paid back in less than one year of operation.

Wind farms can have positive effects on biodiversity by helping to preserve habitats and ecosystems.

The wind industry works with local partners to maximize this positive impact

The latest wind turbine models are much quieter than older ones thanks to improvements in design and technology and have almost eliminated mechanically generated noise.

Sources: WindEurope asbl/vzw

Focus on WindEurope Association



WindEurope promotes wind energy across Europe with over 400 members from across the whole value chain of wind energy: wind turbine manufacturers, component suppliers, power utilities and wind farm developers, financial institutions, research institutes and national wind energy associations.

WindEurope coordinates international policy, communications, research and analysis also providing various services to support members' requirements and needs in order to further their development, offering the best networking and learning opportunities in the sector.

WindEurope analyses, formulates and establishes policy positions for the wind industry on key strategic sectoral issues, cooperating with industry and research institutions on a number of market development and technology research projects.

WindEurope produces a large variety of information tools and manages campaigns aimed at raising awareness about the benefits of wind and enhancing social acceptance, dispelling myths about wind energy and providing easy access to credible information.

Sources: WindEurope asbl/vzw



SKYMINDER AT A GLANCE

WIND INDUSTRY IN EUROPE

Solutions available for more than **240**
countries and jurisdictions

Best in class information thanks to more
than **40** providers, both local and global

9 available products and solutions

Web and **API** integration

SKYMINDER SOLUTIONS



Requirement	SkyMinder Solution	Description
Know business partners and risk level <ul style="list-style-type: none"> - have on board new suppliers - understand in depth customers creditworthiness 	Full Report and Slim Report	Information, with different level of details, related to all companies in the world, including firmographics, credit limit, risk indicator, management, shareholders, negative events etc.
Receive immediate notification with related details if a change affects a company	Full Monitoring	Detailed information about changes affecting a company as soon as happened. Combined possibility to request for free updated report.
Be alerted if there is change in company's information	Alert	Information related to the area involved by a change as soon as an event happened.
Periodically checks if there are changes involving companies	Planned Revision	Scheduled revision with updated report including company's changes if applicable
Understand overall risk	SkyMinder Dashboard	Analyze Business Partners by risk level, identifying critical situations at a glance.
Company ownership overview	Verification Report	List of shareholders to understand company's structure
Compliance requirements and fraud checks	Compliance Report and Extended Check Report	Anti Bribery and Money Laundering lists checks related to financial crimes.
Risk of Cyber attack	Cyber Risk Report	Assess the level of risk related to a business partner in being involved in a cyber attack
Understand overall value of intangible assets of a company	Patent Due Diligence Report	Patent Asset Overview with geographical coverage, remaining life of active patent assets, high-value patent assets, technology and patent deployment, technology timeline, peer comparison, key inventors.

For more information.



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