



VERSION 2026/03 - APRIL 2026

YOUWIND PLATFORM CATALOGUE

CLARITY IN MOTION

WWW.YOUWINDRENEWABLES.COM

Welcome!

Thank you for your interest in Youwind and for taking the time to review this catalogue. This document is designed to give you a broad overview of our platform capabilities, helping you understand how it can support your work in wind farm design, both for onshore and offshore wind initiatives.

The Youwind platform is the result of many years of in-house development by wind industry professionals like you, who have experienced similar challenges when developing wind energy projects. As a result, the platform was developed to address these challenges. Since 2018, we have continuously invested in refining and expanding its functionality, guided by the needs of our users and the evolving challenges of the wind industry. This catalogue is therefore a live document: we are constantly adding new features and upgrading existing ones. As a result, newer versions may include tools or functionalities not reflected in the version you are currently reading. For this reason, the version and date of issue are made clearly visible on this first page. Please check this information to ensure you are viewing the most up-to-date edition and if not, don't hesitate to contact us to get the latest version.

Our goal with this document is to provide you with a practical guide to what the platform can do today, while also conveying that it is always growing and adapting. We encourage you to reach out if you do not find a particular functionality here, as it may already exist or be currently under development.

We hope this document gives you confidence not only in our platform offering, but also in us as a future partner to empower you to accelerate your daily wind farm design work. The industry needs all of us at our best.

Enjoy your reading!

The Youwind Team

Version: 2026/03

Last update: April 2026

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**DISCOVER THE FEATURES OUR
USERS VALUE MOST**



OFFSHORE DEVELOPMENT TECHNICAL CAPABILITIES



Integration to Vortex

The Vortex MAPS product is automatically integrated in Youwind with down to 1km resolution at each turbine position. Global Wind Atlas is also available as a wind map data source for Weibull-based AEP. Integrate your Vortex account to seamlessly import your runs.

Customize your Weibull values

Customize your Weibull distribution with your A and k parameters. Apply a scaling factor to an entire wind map dataset to tune your frequency distribution. Baseline maps include Vortex MAPS and GWA.

Statistic domain file flex

Upload Wind Resource Grids from any source: local file or FARM product from Vortex or resulting files from WASP.

Time domain file flex

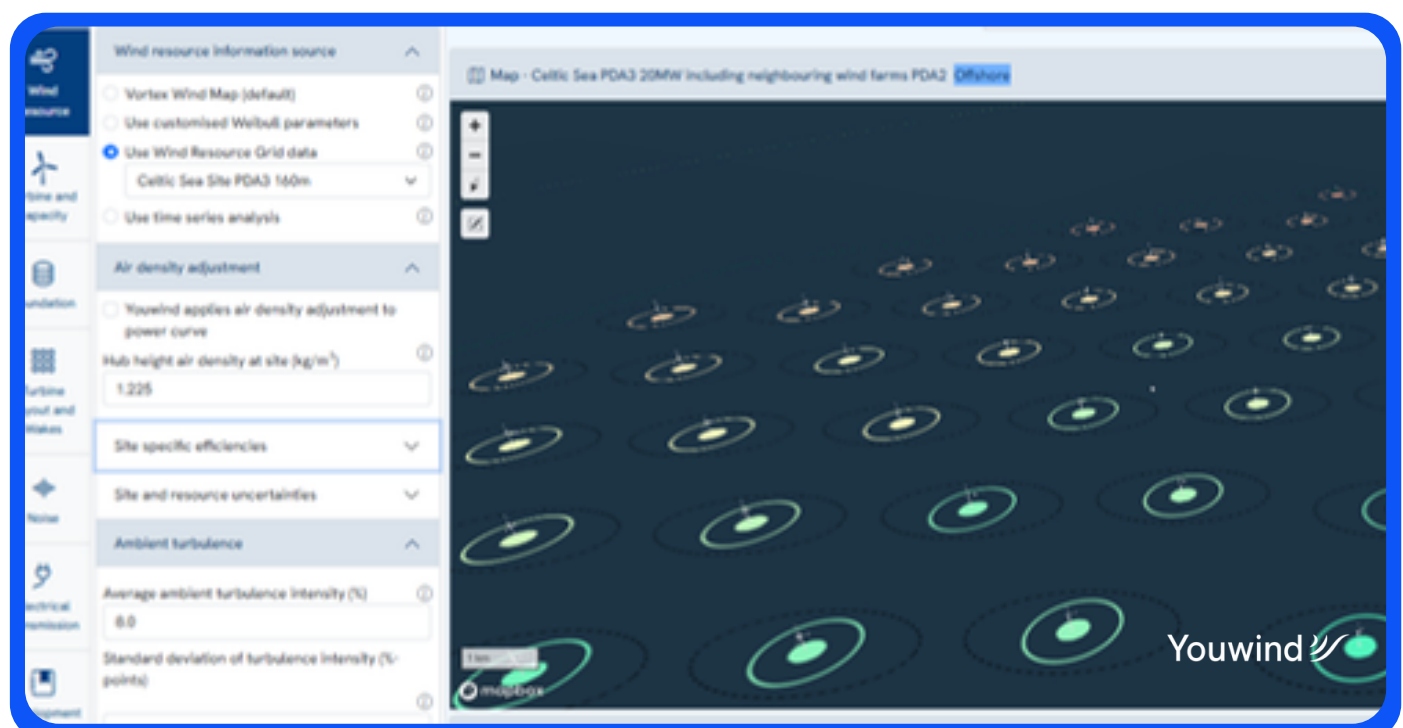
Upload wind data time series from any source, or connected directly to LES, SERIES, TIMES products from your Vortex account. Adjust time series with scaling factors.

Uncertainty handling

Keep track of where you stand in the uncertainty funnel in your project with all your available wind resource data.

Air density adjustment

Upload multiple power and thrust curves for different air densities. Select and adjust to site air density.



Vertical extrapolation

Wind shear profile modeled for different hub heights based on Vortex MAPS or GWA.

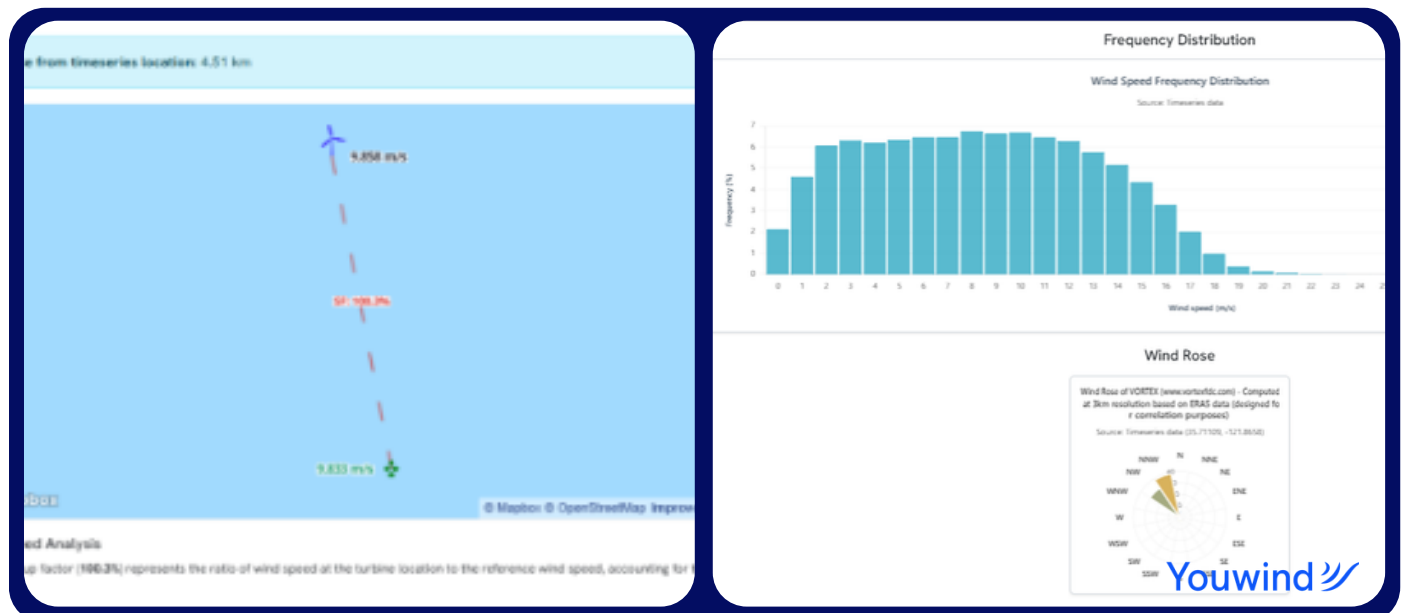
Multiple wind timeseries

Ability to select multiple time series locations as reference points for a scenario, with each turbine using data from the closest reference location.

Horizontal extrapolation



Apply a scalar correction to individual turbines throughout your development area relative to a time series location. Flexible choice of map for extrapolation: Vortex MAPS or FARM, Global Wind Atlas or custom WRG.

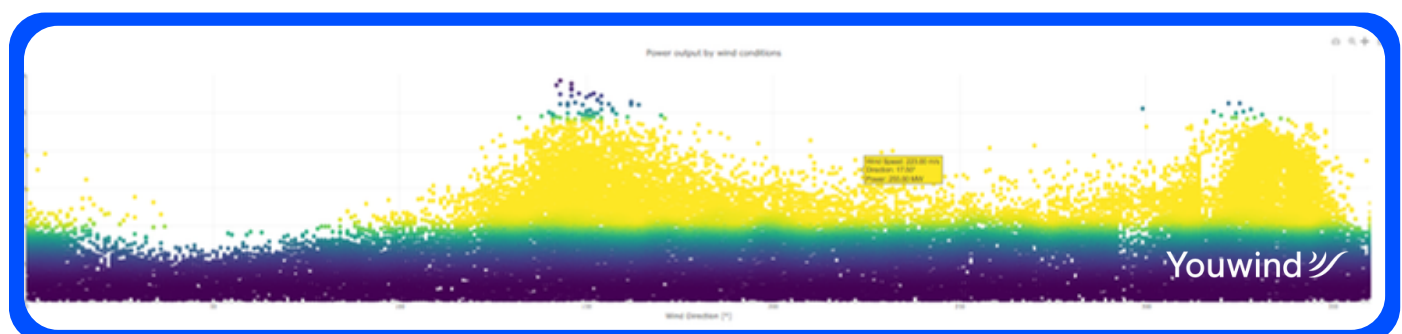


Time series pre-processing

Perform quick quality checks on data uploaded to our platform. Adjust data with scaling factors to align with available measurements.

Export data seamlessly

Export processed data at park or individual turbine level in .csv format, providing full flexibility to handle your own data.



Several validated models

Available validated wake models: N.O. Jensen, Ainslie Eddy Viscosity, Park2 and TurbOPark (Workshop performed with Ørsted in 2022 to validate the correct implementation of TurbOPark model within Youwind platform).

Blockage effect

Blockage impact modeled for N.O Jensen and TurbOPark (validated by Ørsted).

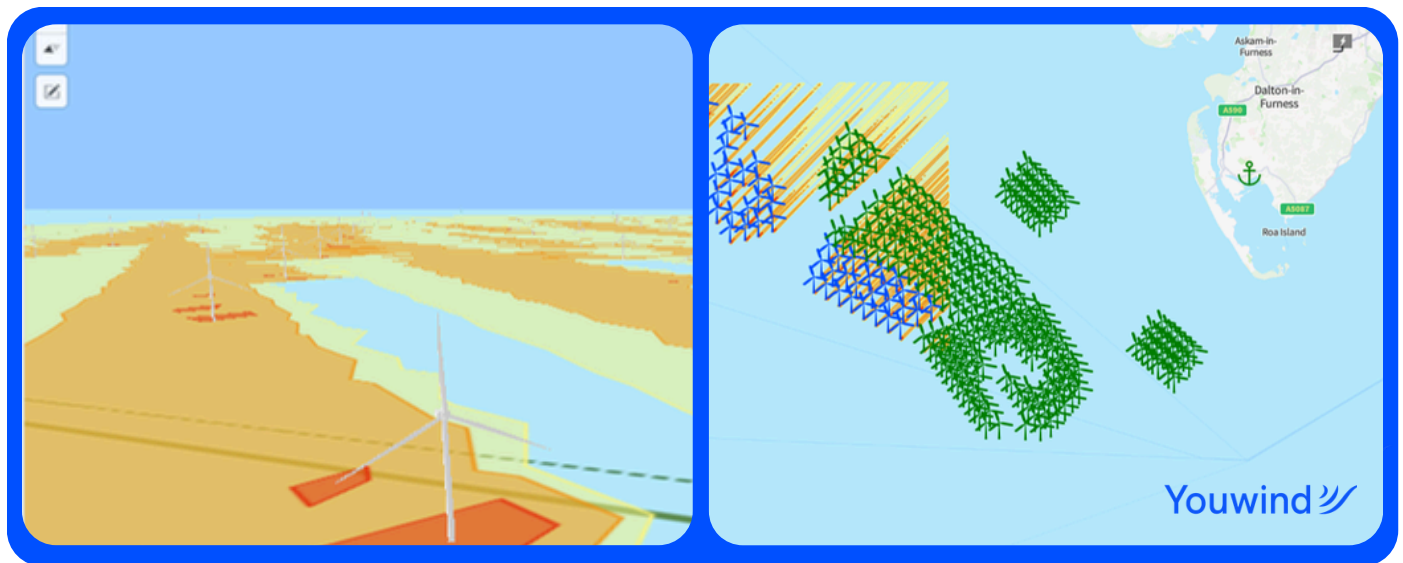
Fastest cluster simulations



Robust model capable of accounting for more than 5.000 turbines, including neighbouring wind farms and performing simulation in hours rather than days.

Choose model risk level

Customize the weighted average of different models for risk sensitivity analysis.



Customize model inputs

Tune wake models with different environmental parameters, such as air density or ambient turbulence intensity.

Account for the neighbours

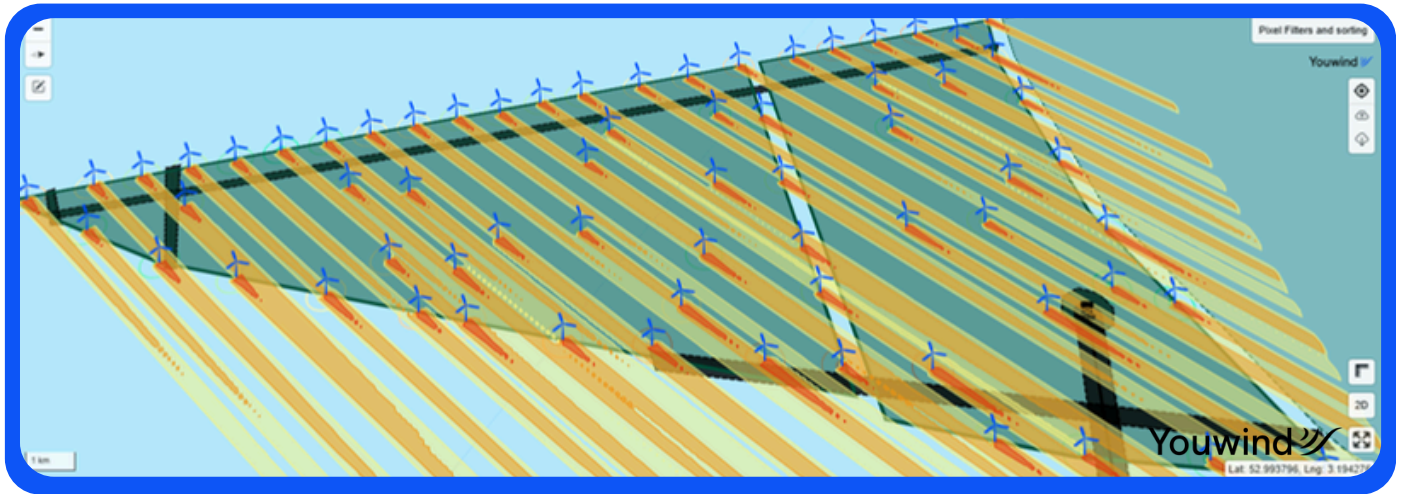
Internal and External wake losses are split considering present and future neighbouring wind farms.

Clear wake visualization

Visualize wake effect length per turbine position for any wind direction, in 2D or 3D.

Uncertainty handling

Calculate the overall uncertainty on the yield estimate, propagating all different uncertainty factors.



Exclusion zones accounted for

Robust for any irregular development area resulting from constraint analysis, accounting for all exclusion zones and buffers defined automatically or manually with the drawing palette.

Micrositing toolset

Quickly create and modify turbine layouts using the user-friendly GIS interface: drag and drop, or create and erase a single turbine or a string with several units.

Parallel simulations

Create multiple scenarios for fast sensitivity analysis when comparing several optimization objectives or micrositing changes thanks to the platform cloud-based nature.

Multiple objective options

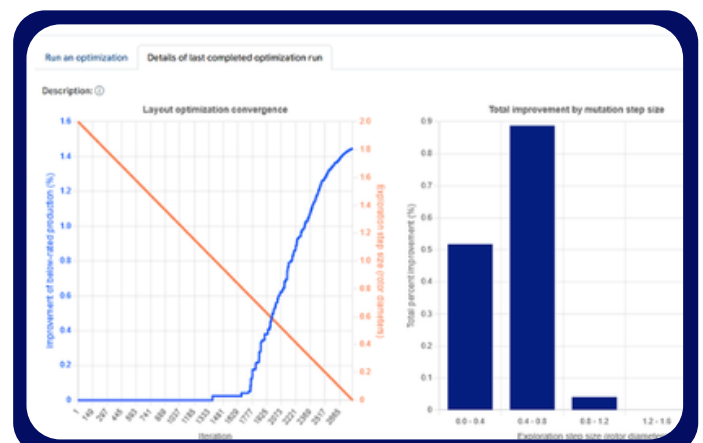


Analyze multiple turbine layout options maximizing spacing between turbines, maximizing capacity, or minimizing wake losses.

Irregular optimizer beyond local optimals



Our advanced genetic algorithm automatically minimizes the wake losses, maximizes AEP or maximizes smallest distances of a layout through an iterative optimizer, improving any generated or manually created layout. LCOE optimizer focused on main drivers such as foundation and electrical costs.



Percentile outputs

Full P50 and P90 following IEC standard methodologies, as well as custom percentile levels.

Efficiencies breakdown

Calculation of all efficiencies and availability from turbines to onshore grid connection point, including modeled and lump sum losses.

Curtailment strategies

Simulation of curtailment for operational strategies, both project inherent and external.



Turbine integrity check

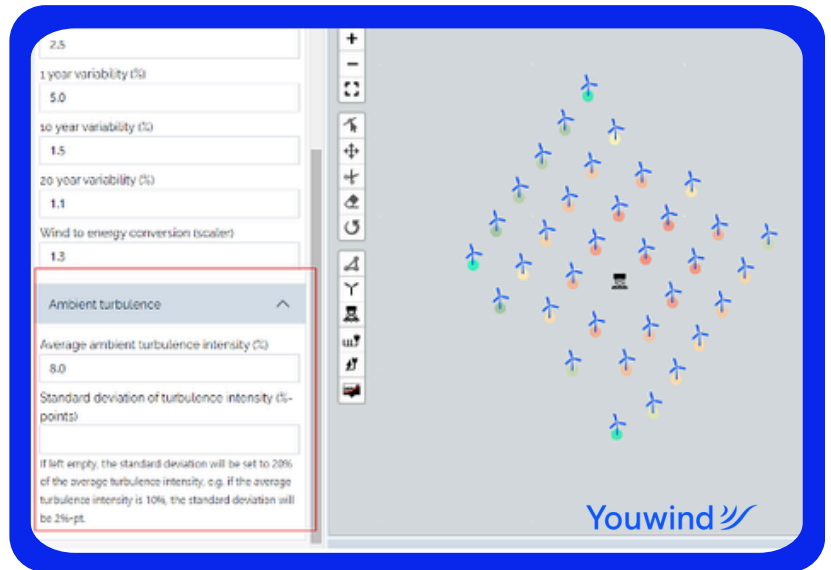
Assess instantly if a turbine position is subject to rougher wind conditions than established by the manufacturer.

Turbulence intensity

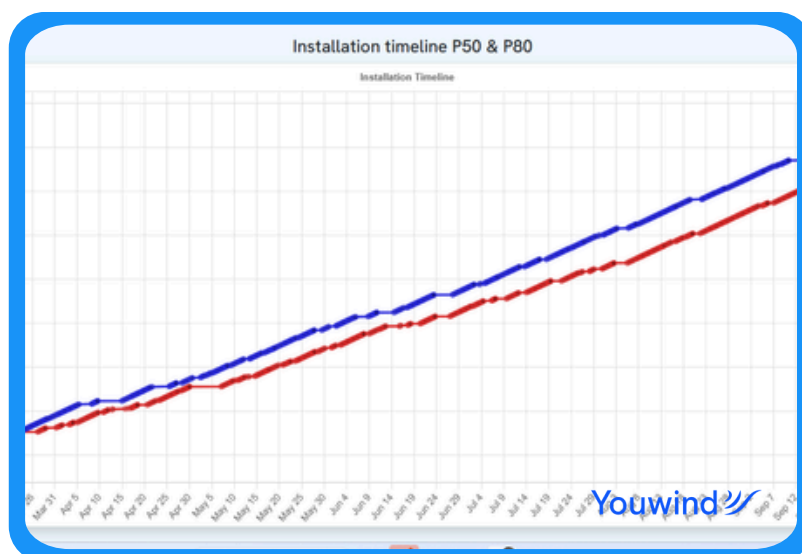
Calculation of turbulence intensity including wake effects, and required turbine class per position according to IEC 61400-1.

Custom S-class set up

Evaluation of the custom S-class for turbines, for any site.



OFFSHORE WIND LOGISTICS



Weather downtime

Installation and preventive O&M sequences optimization for a list of activities and dependencies including wind and wave restrictions, both at harbor and at site. Output total time and CAPEX.

When is best to start?

Algorithm to define the best starting date of the activities to reduce the weather downtime and associated installation calculated CAPEX.

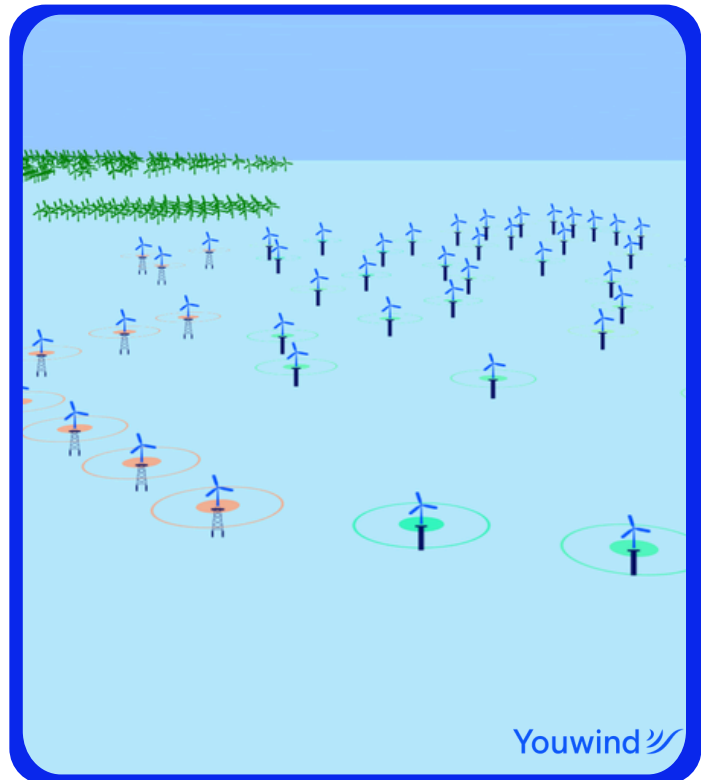
Initial design per position

Validated modeling of size and weights for both fixed bottom and floating technologies.

Bottom-fixed technology

Monopile and jacket weights estimates are modeled taking into account bathymetry, seabed conditions, and foundation and turbine characteristics.

Jacket weight estimations for offshore substation foundations are modeled taking into account bathymetry and offshore substation characteristics.

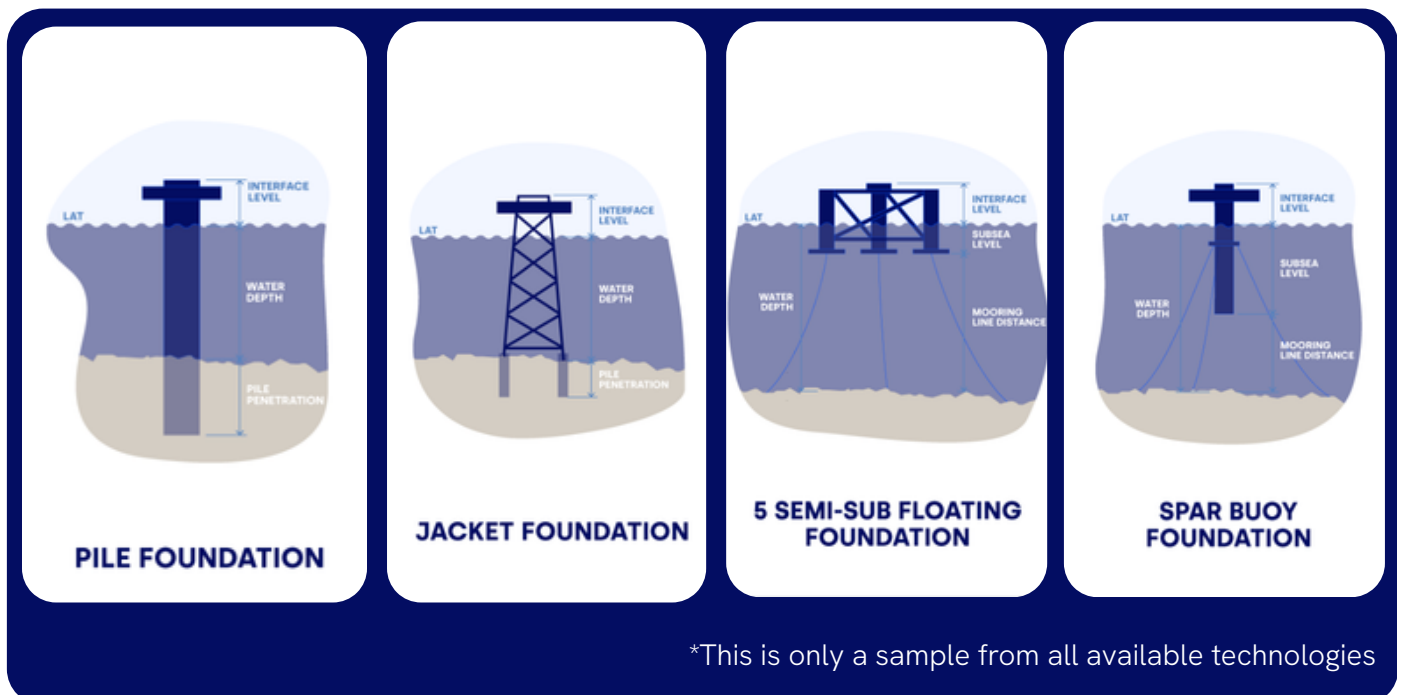


Floating technology

Model mooring line lengths per type at each turbine position, as well as anchor options for all existing foundation concepts.

Best option per site

Optimize foundation selection, for a single, or a combination of technologies at a site, based on bathymetry, seabed type, and cost per position.



*This is only a sample from all available technologies

Holistic grid loss simulation

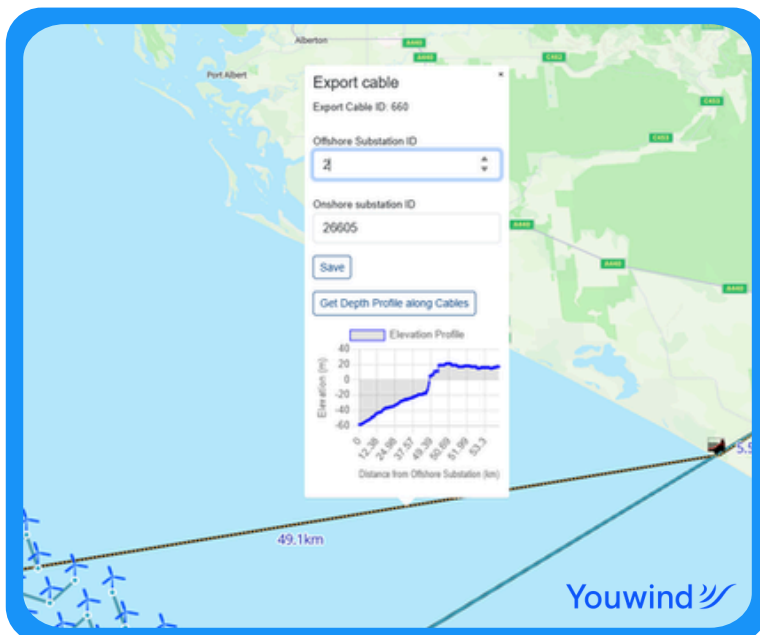
From turbine to connection point, or chosen system part, estimate precise cables efficiencies from array and export systems. Models validated by reference research institutes, such as CITCEA-UPC and IREC.

Array system optimization

Array cables layout design and optimization for many cross section types, minimizing length and cost. Possibility to select Radial or Branch array cable types. Accounts for exclusion zones.

Offshore substation

Design the farm with zero, one or multiple units, including a location optimizer within the farm.



Cable depth profile

Cable system lengths calculation account for bathymetry. For floating systems, the dynamic part of the cable is accounted for.

Export system

One or several shunt reactors can be added to include reactive compensation and minimize losses.

Onshore substation

Choose from available preset connection points location or choose your own, adding the landfall point and voltage levels.

ONSHORE DEVELOPMENT TECHNICAL CAPABILITIES



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Customize your Weibull values

Customized Weibull distribution with your A and k parameters. Apply a scaling factor to an entire wind map dataset to tune your frequency distribution. Baseline available maps include Vortex MAPS and GWA.

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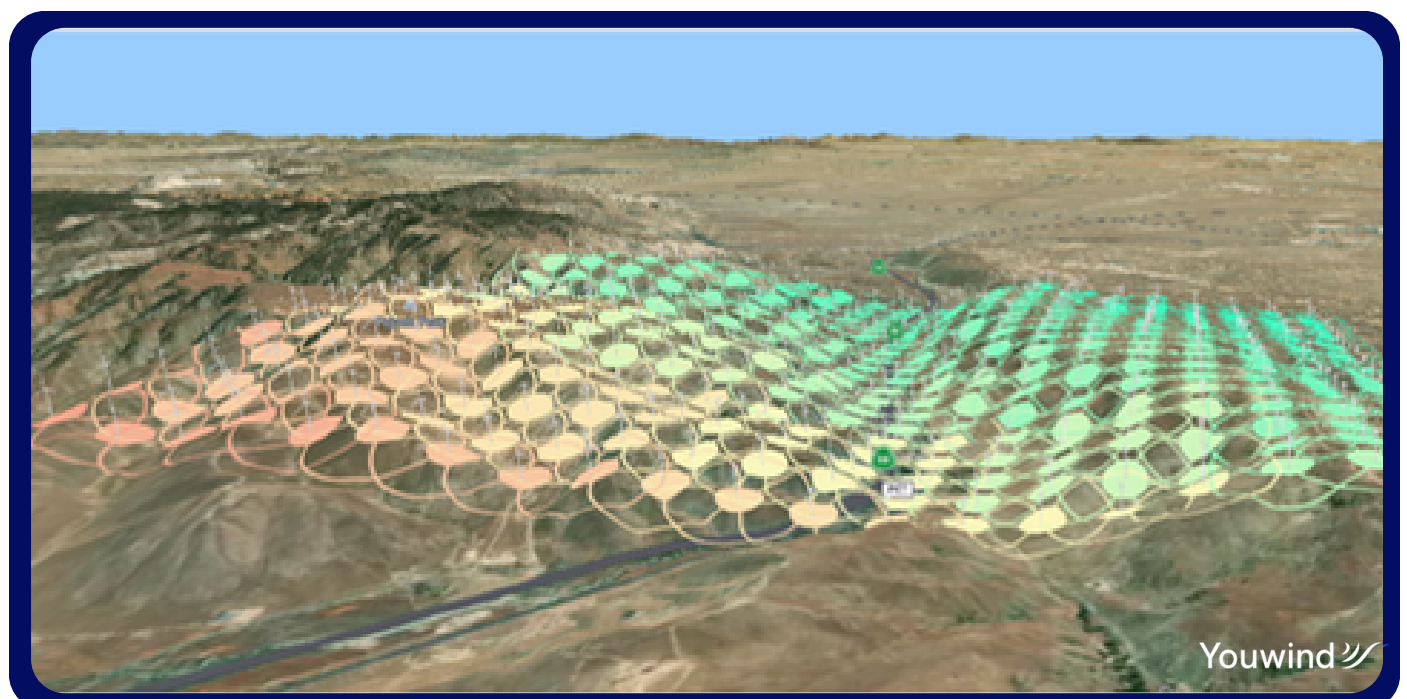
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Uncertainty handling

Keep track of where you stand in the uncertainty funnel in your project with all your available wind resource data.

Air density adjustment

Upload multiple power and thrust curves for different air densities. Select and adjust to site air density.



Vertical extrapolation

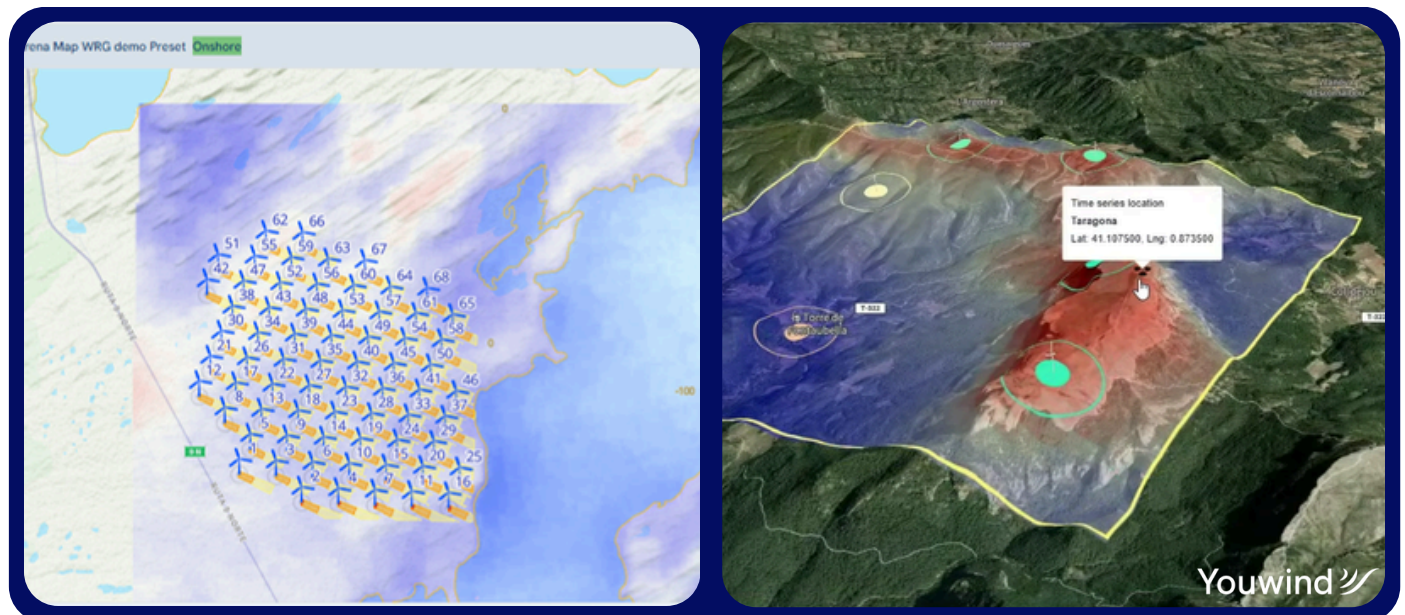
Wind shear profile modeled for different hub heights based on Vortex MAPS, GWA or custom files.

Multiple wind timeseries

Possibility to select multiple time series locations as reference points for a scenario, with each turbine using data from the closest reference location.

Horizontal extrapolation

Apply a scalar correction to individual turbines throughout your development area, relative to a measurement device location. Select the map source for extrapolation (Vortex MAPS, GWA, uploaded WRG file).

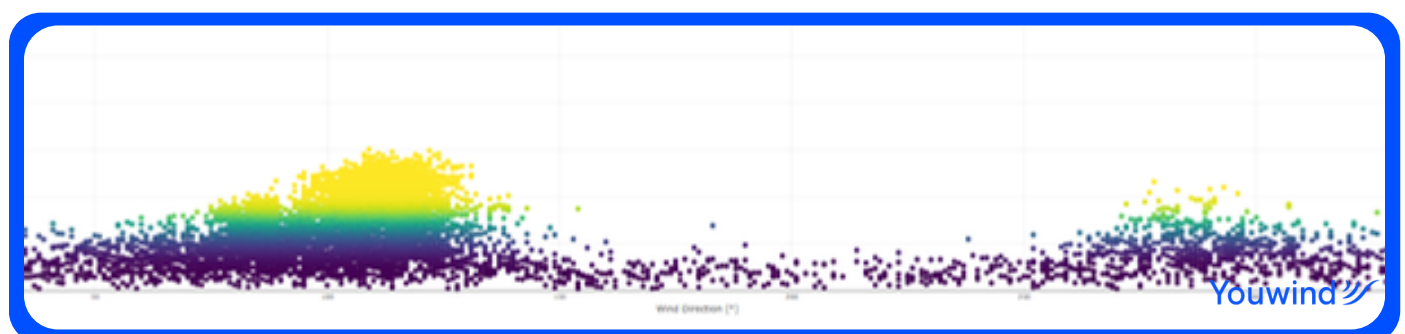


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Customize the weighted average of
different models for risk sensitivity
analysis.

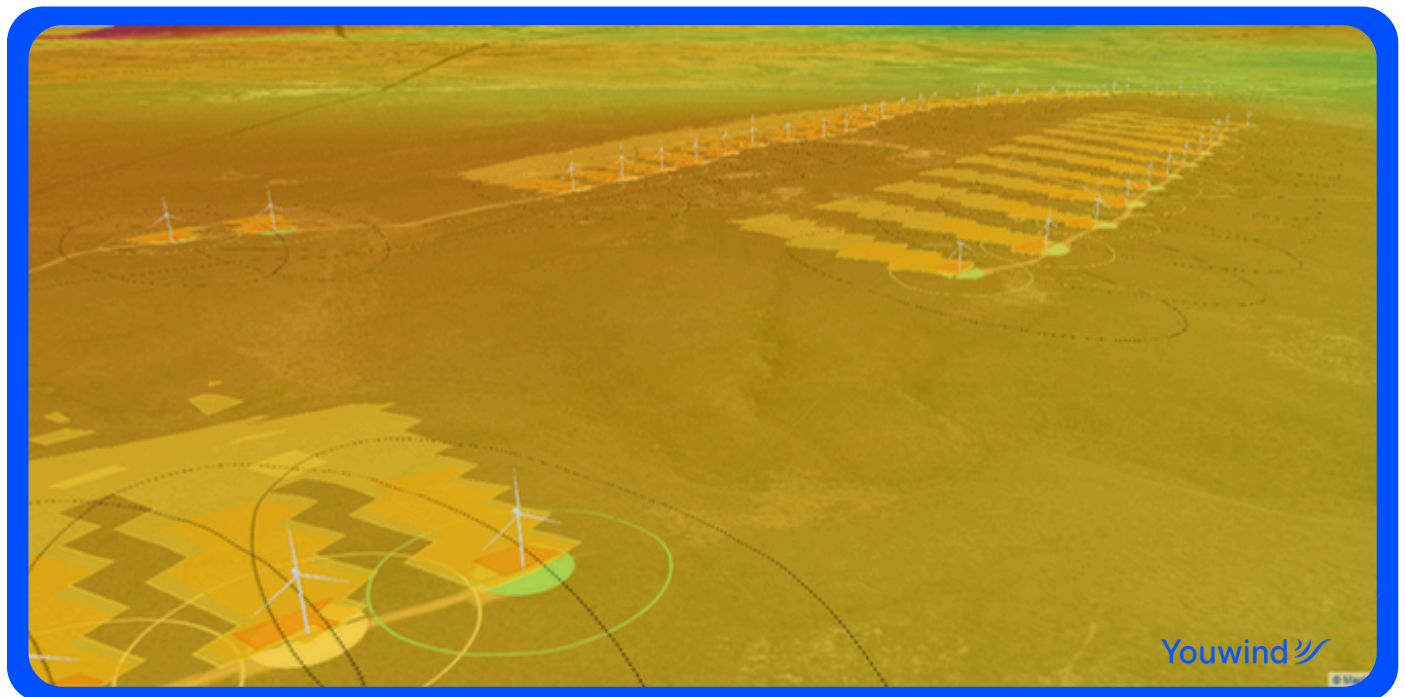
Fastest parallel simulations



Robust model capable of accounting
for more than 5.000 turbines,
including neighbouring wind farms
and performing simulations in hours
rather than days.

Hub heights diversity

Accounts for terrain orography and
different turbine models.



Customize model inputs

Tune wake models with different
environmental parameters, such as
air density or ambient turbulence
intensity.

Clear wake visualization

Visualize wake effect length per
turbine position for any wind
direction, in 2D or 3D.

Account for the neighbours

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are split considering present and
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different uncertainty factors.

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Micrositing toolset

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Multiple objectives options

Analyzes multiple turbine layout options optimizing for maximizing spacing between turbines, maximizing capacity, or minimizing wake losses.

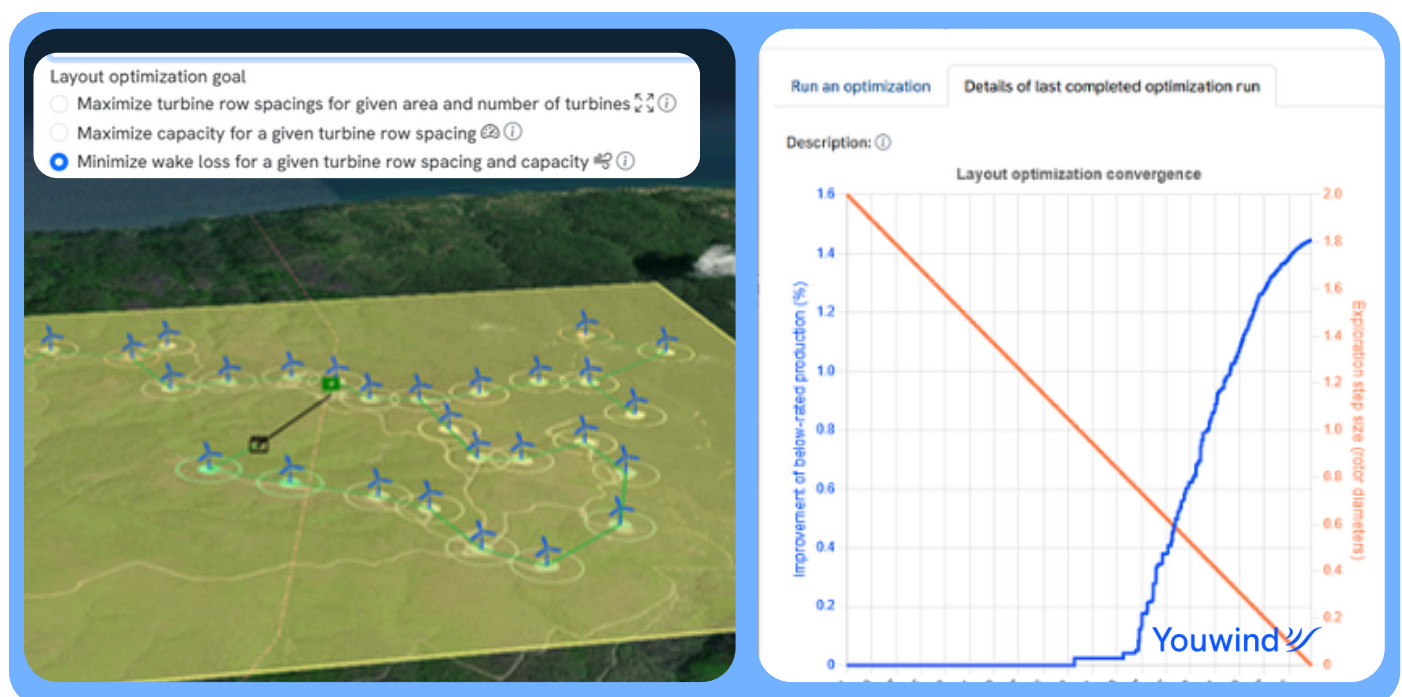
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Irregular optimizer beyond local optimals

Our advanced genetic algorithm automatically minimizes the wake losses, maximizes AEP or maximizes smallest distances of a layout through an iterative optimizer, improving any generated or manually created layout.

LCOE optimizer focused on main drivers such as foundation and electrical costs.



Initial design per position

Validated foundation modeling of size and weights, taking into account concrete volume and steel reinforcement required.

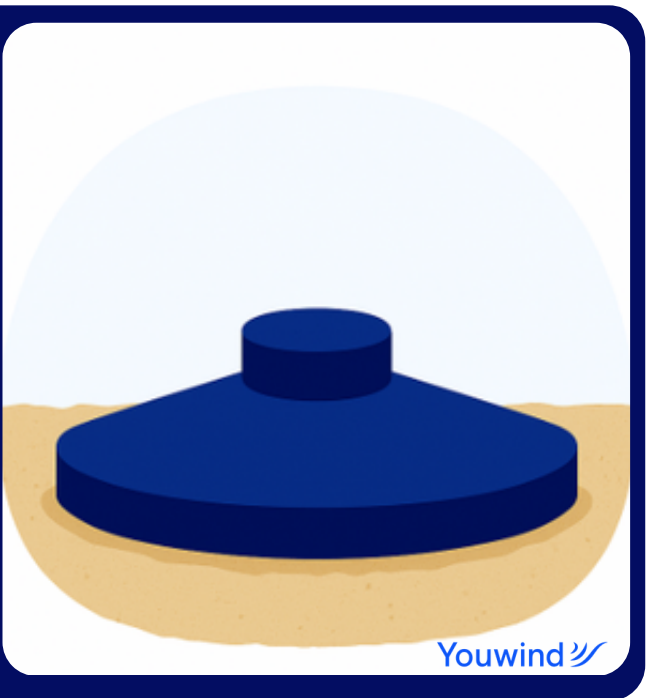
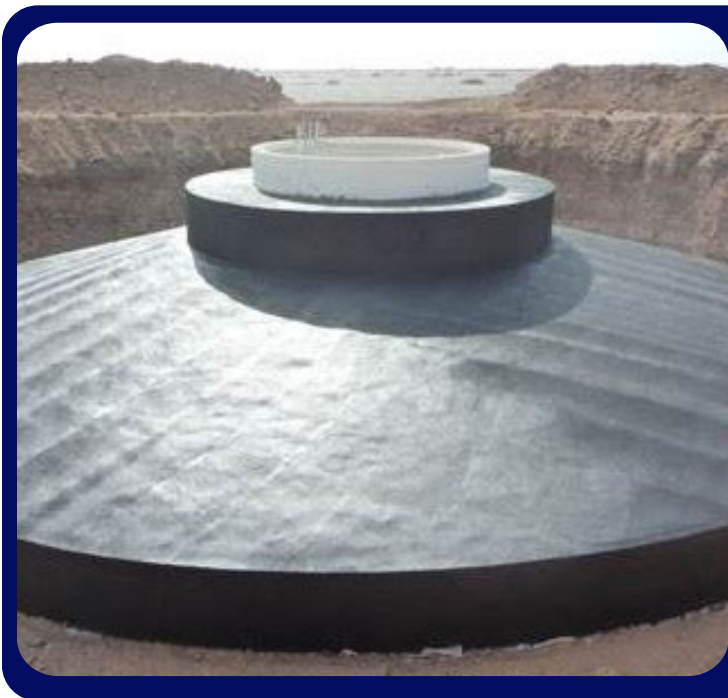
Gravity based technology

Modeling of dimensions and weights for onshore gravity based foundations based on turbine characteristics.

Best option per site

Optimize foundation selection based on cost, while accounting for turbine type characteristics. Full flexibility to choose user inputted values or optimized outcomes.

Elevation (m)	On- or Offshore	Hub elevation (m)	Foundation	For cost
682.0 Save	Onshore Save	822.0	Onshore gravity Save	0.5
Source: GEBCO				
682.0 Save	Onshore Save	822.0	Onshore gravity Save	0.5
Source: GEBCO				
705.0 Save	Onshore Save	845.0	Onshore gravity Save	0.5
Source: GEBCO				Op
705.0 Save	Onshore Save	845.0	Onshore gravity Save	0.5
Source: GEBCO				
705.0 Save	Onshore Save	845.0	Onshore gravity Save	0.5
Source: GEBCO				
733.0 Save	Onshore Save	873.0	Onshore gravity Save	0.5
Source: GEBCO				
733.0 Save	Onshore Save	873.0	Onshore gravity Save	0.5
Source: GEBCO				
774.0 Save	Onshore Save	914.0	Onshore gravity Save	0.5
Source: GEBCO				
774.0 Save	Onshore Save	914.0	Onshore gravity Save	0.5
Source: GEBCO				
790.0 Save	Onshore Save	930.0	Onshore gravity Save	0.5
Source: GEBCO				





Turbulence intensity

Calculation of turbulence intensity with wake effects and required turbine class per position according to IEC 61400-1.

Check with IEC TI classes

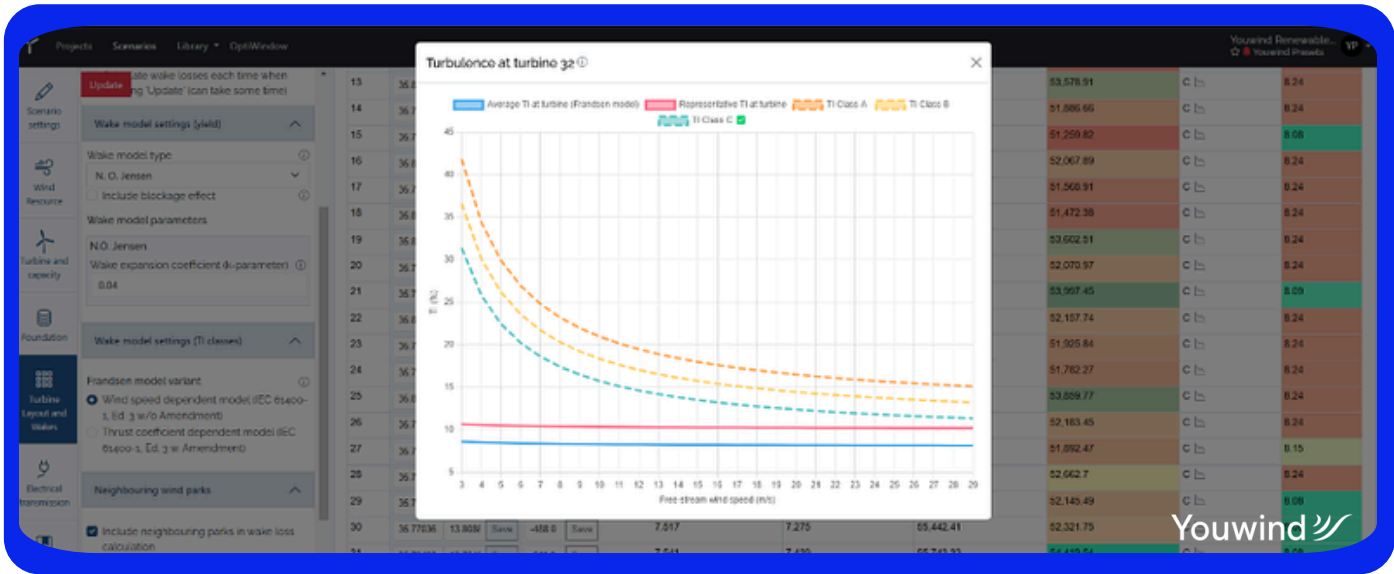
Evaluate with integrated standard TI class and simulate the lowest Turbulence Class A, B, or C, that the turbine position complies with.

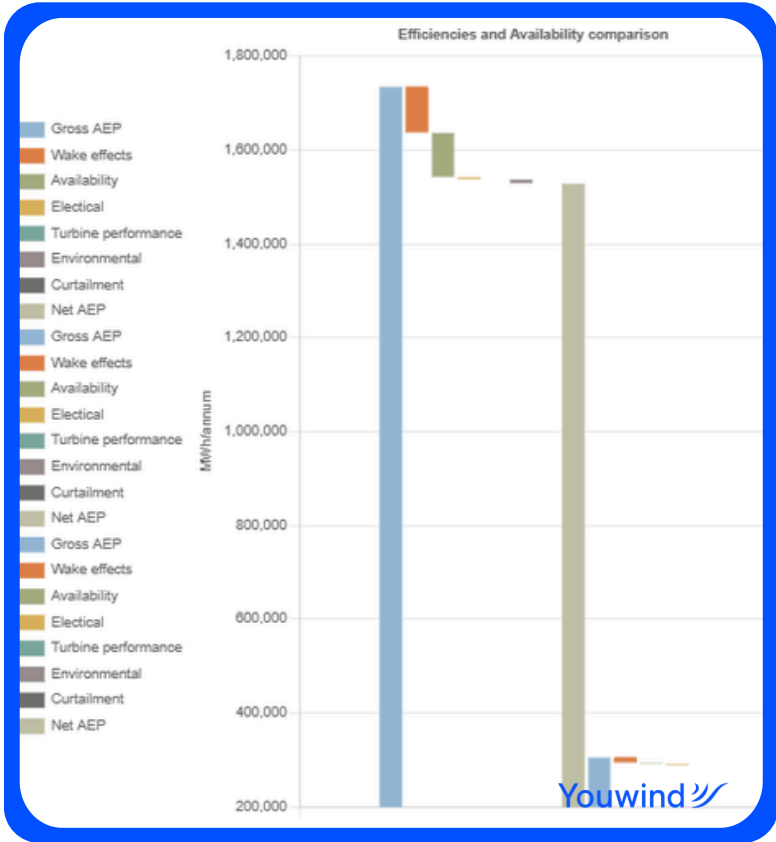
Turbine integrity check

Assess instantly if a turbine position can withstand the site conditions established by the manufacturer and identify the right turbine selection.

Easy visualization

Identify the least favorable positions in the map directly with color coding.





Percentile outputs

Full P50 and P90 following IEC standard methodologies, as well as custom percentile level.

Efficiencies breakdown

Calculation of all efficiencies and availability from turbines to onshore grid connection point, including modeled and lump sum losses.

Curtailment strategies

Simulation of curtailment for operational strategies, both project inherent and external.



Noise propagation modeling

Model the noise propagation throughout a wind farm or cluster of wind farms following ISO standards.

Noise levels visualization

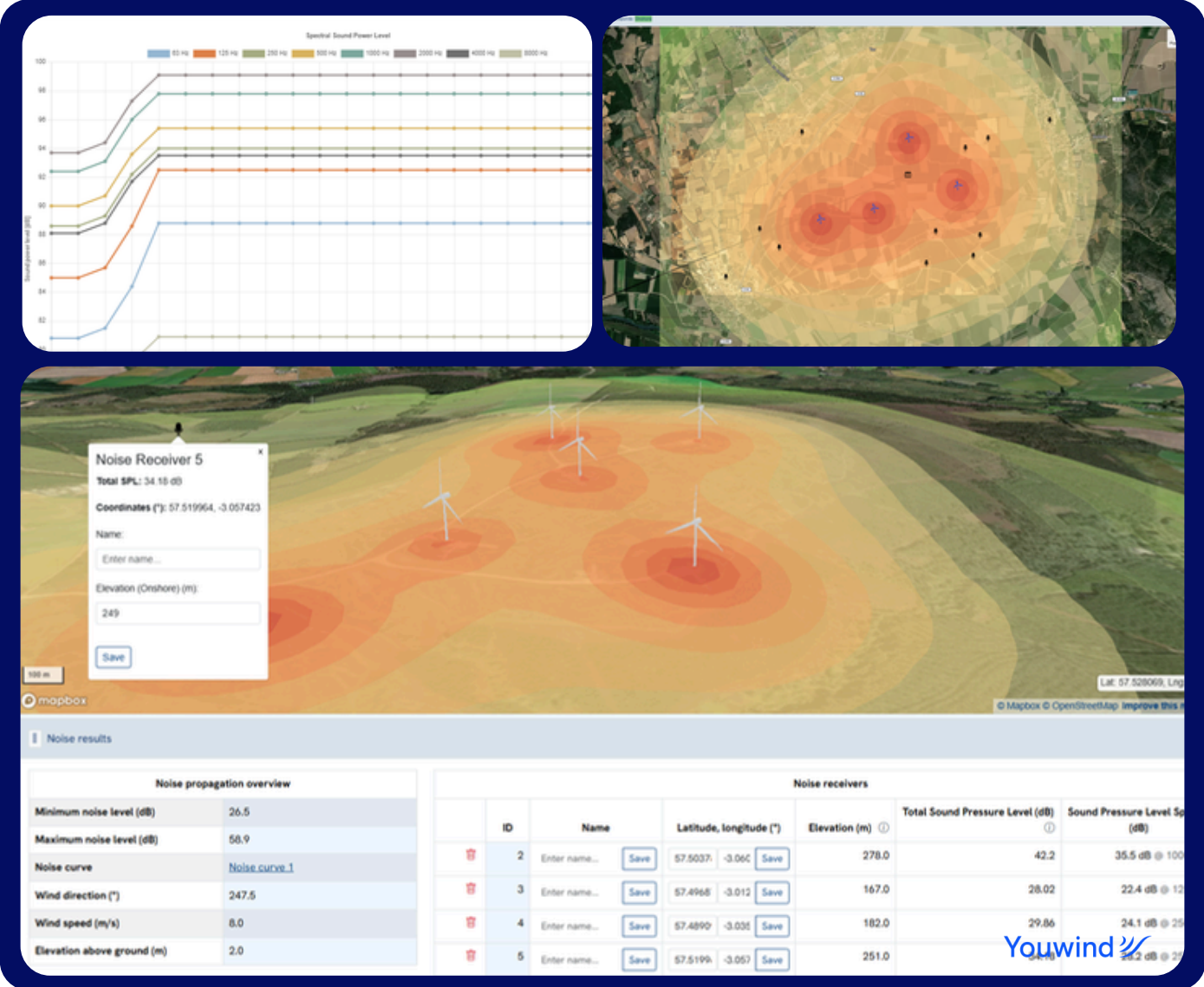
Noise propagation heatmap to quickly assess environmental impact, ensure regulatory compliance, and minimize noise disturbance to nearby communities.

Versatile input framework

Define and customize noise emission curves corresponding to different operation modes, as well as tune ambient parameters to match site conditions and performance constraints.

Noise levels at receivers

Assess noise impact at an unlimited number of locations by adding receivers in the map directly for more transparent stakeholder management.





Grid connection point

Choose an existing connection point from global presets, or create your own. Visualize buffer zones.

Array system optimization

Instant array cables layout design and optimization for different cross section types, minimizing length and cost. Possibility to select Radial or Branch array cable types. Ensure compatibility exclusion zones.

Holistic grid loss simulation

From turbine to connection point, or chosen system part, estimate precise cable efficiencies from array and export systems.

Design your export route

Increase simulation accuracy by tuning directly on the map the exact route of your export cable, following identified constraints or roads.



Trucks and Cranes libraries

Start with our existing models for first simulations and expand them with your logistics enablers of your choice, both in technical and costs terms. They include constraints alerts to ensure feasible choices.

Site roads optimization

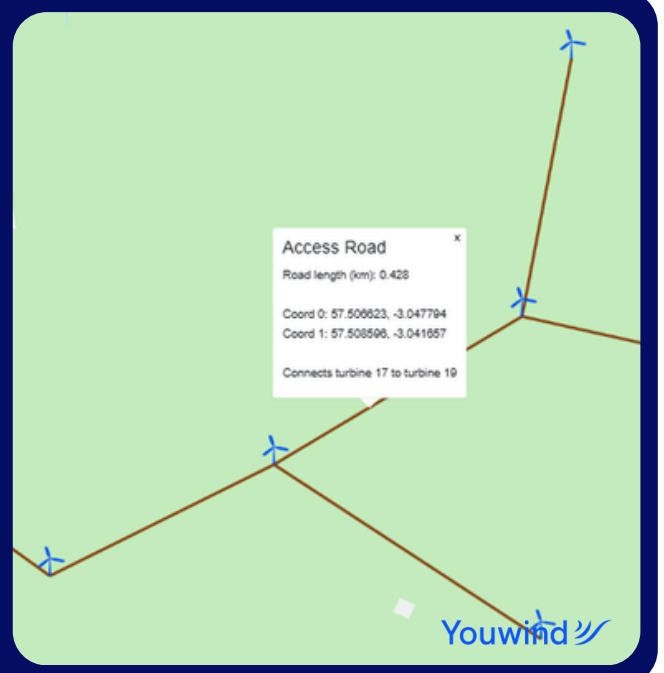
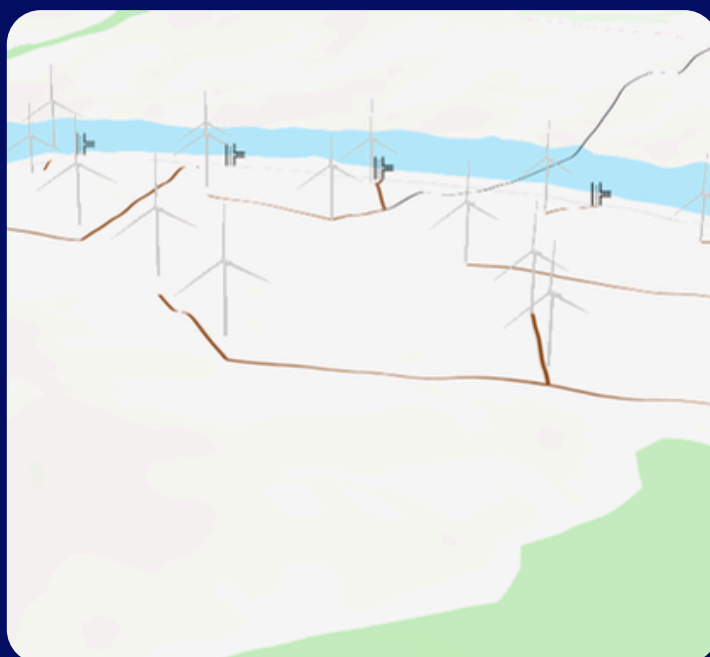
Instant design and optimization of the site road network, minimizing total length and construction cost.

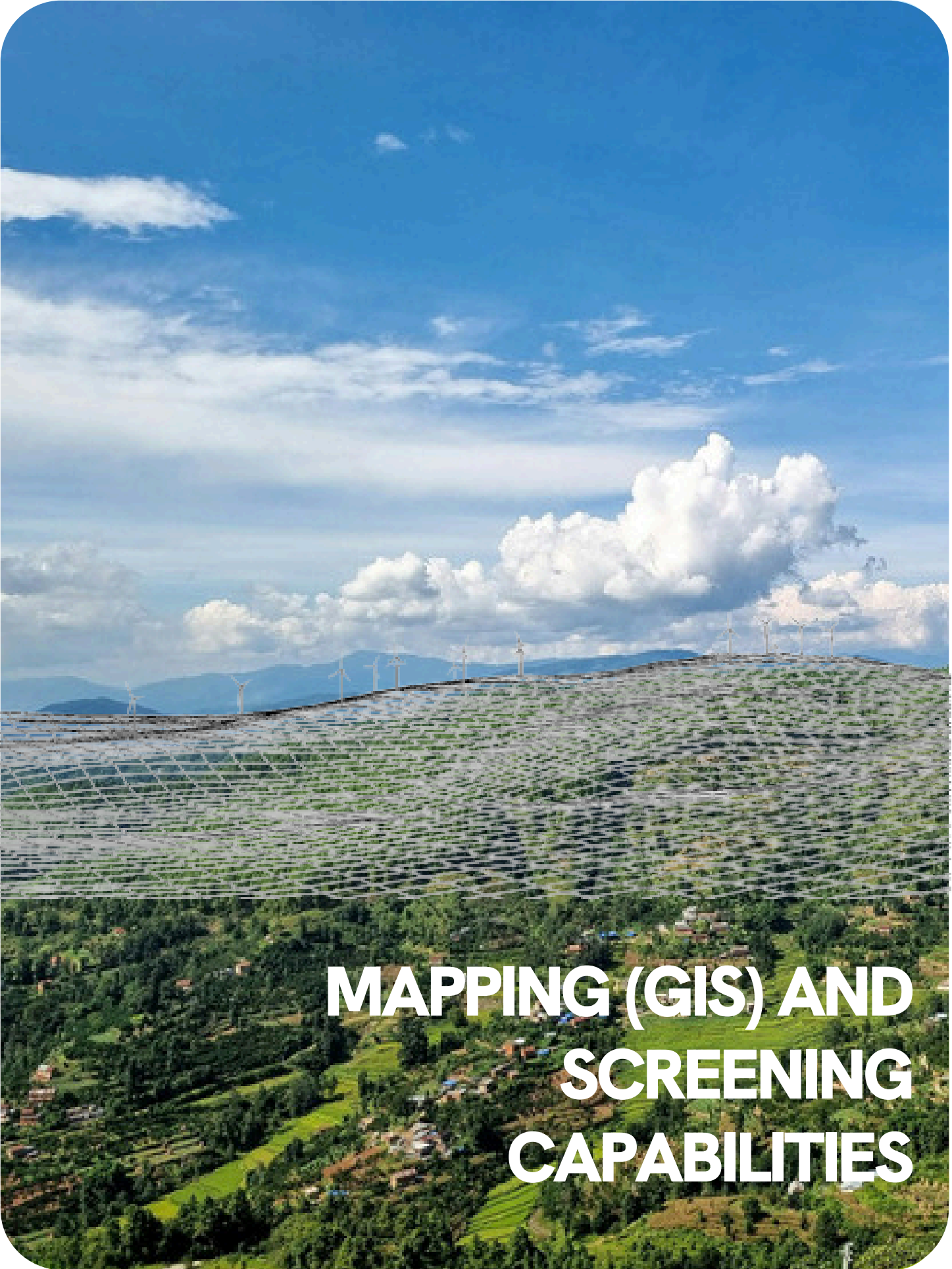
Roads connection points

Choose where the access roads connect to the existing roads to optimize transportation and building costs.

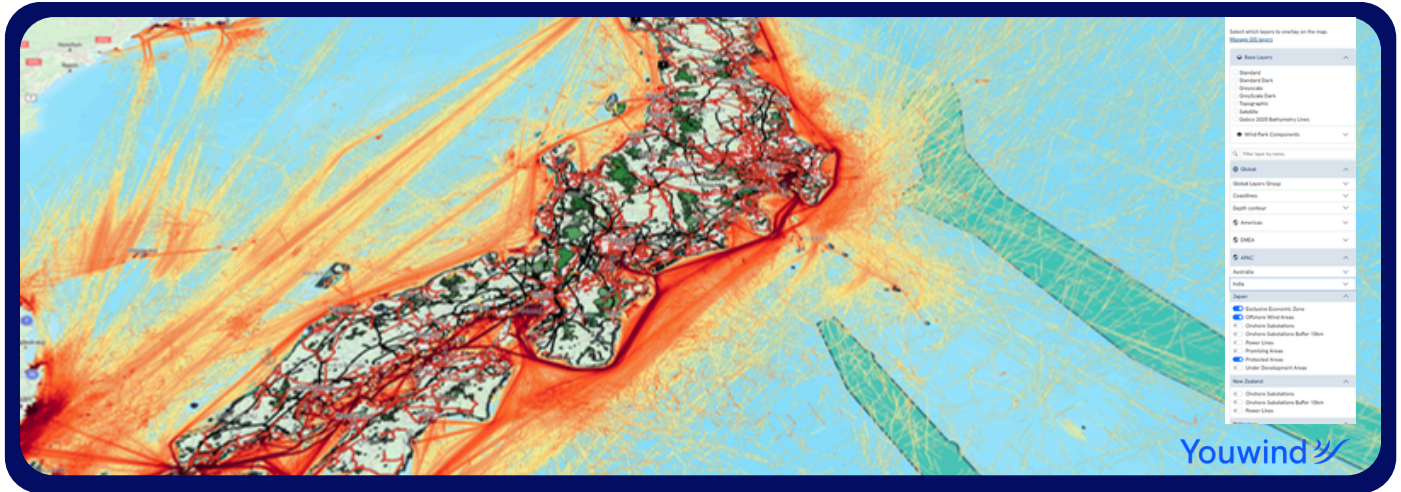
Customize road layout

Manually customize and create roads based on the site topography, exclusion areas, and transportation limitations.





MAPPING (GIS) AND SCREENING CAPABILITIES



Presets to get you started

Initiate your project with our presets GIS library including environmental protected areas, grid connections, existing wind farms, offshore wind energy designated areas and many other human activities locations.

All GIS sources in one place

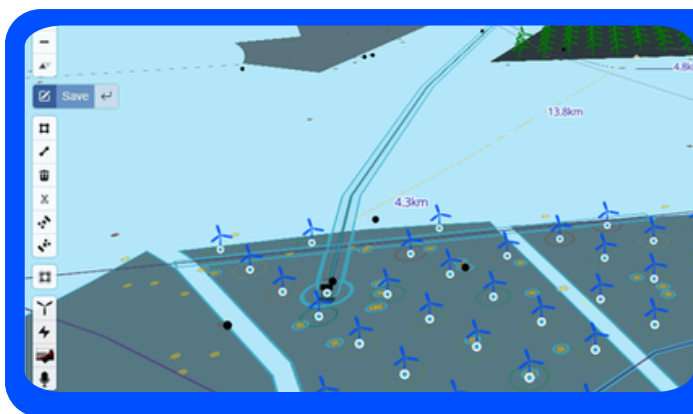
Upload your own maps layers in GeoJSON, Keyhole Markup Language (KML), Web Map Service (WMS), Standard/Vector Tile Layer (XYZ) formats or through ArcGIS REST.

Water depth / elevation

For offshore scenarios, water depth data is sourced from GEBCO, while for onshore wind farms, elevation data is provided by Copernicus. Users also have the possibility to customize these values at each turbine location.

Connect to ArcGIS / QGIS

Direct link between platforms for seamless collaboration with their libraries.

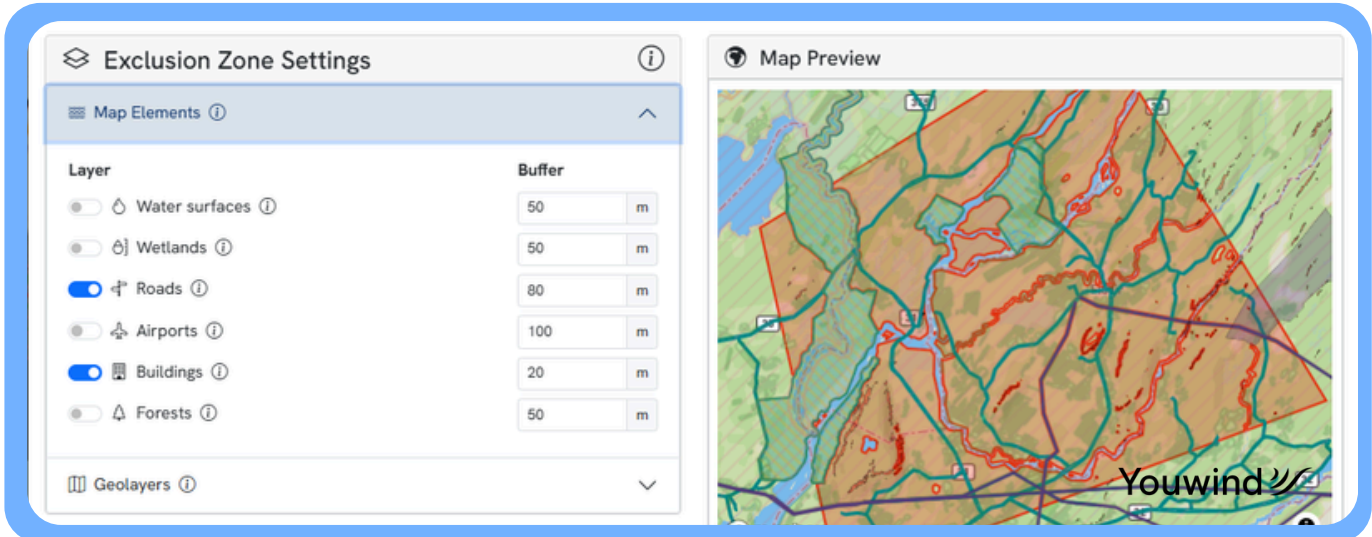


Irregular areas handling

Cut and define your resulting development area with our drawing palette after applying unlimited overlapped exclusion zones. The platform can handle highly irregular shapes to generate layouts.

Drawing palette for full farm

Add and eliminate turbine units for micro-siting, individually or in bulk. Fine tune cabling routing for both array and export systems. Add customized landfall point and more.



Overlap unlimited constraints

Overlap unlimited layers from environmental or human activities for accurate constraint analysis, from Youwind presets, from your own uploaded data, connected directly from ArcGIS through ArcGIS REST.

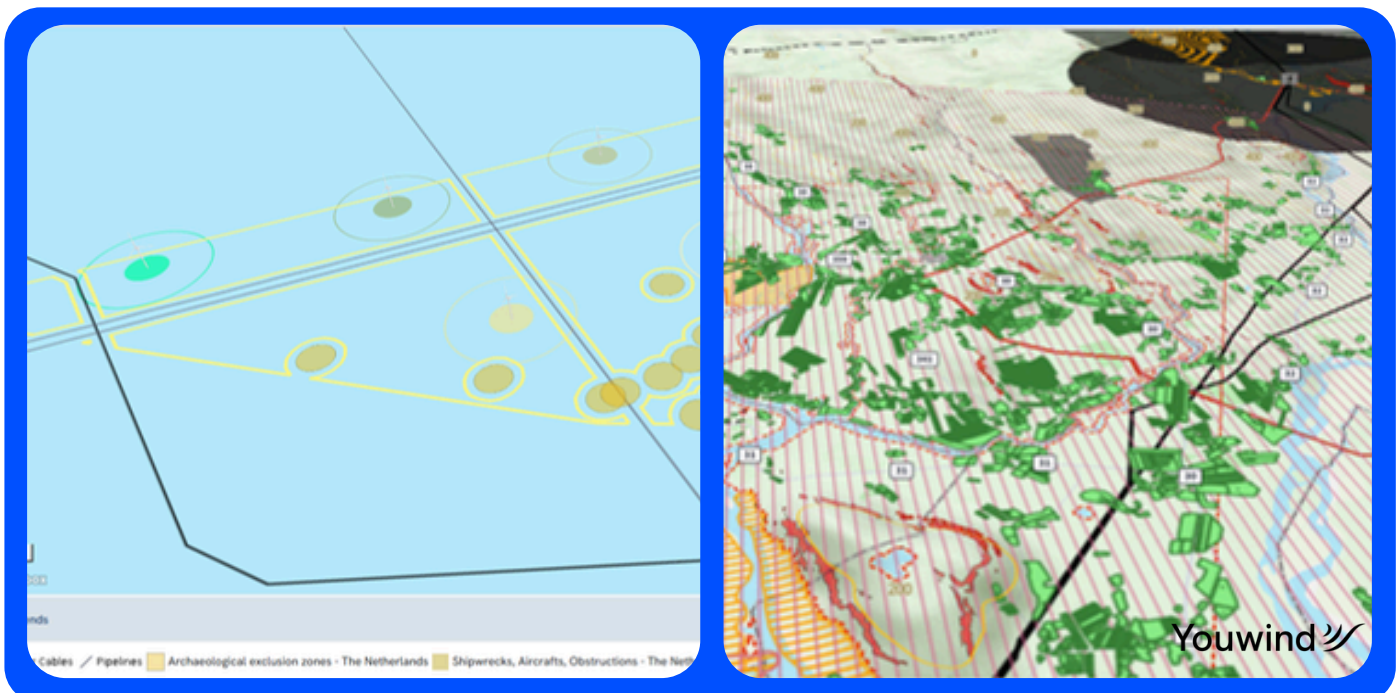
Add customized buffers

From any irregular exclusion zone, add automatic buffer area around chosen constraints to ensure where it is feasible to start optimizing your layout.

Autofind my constraints



Create any polygon and localize its restrictions, such as inhabited areas, natural zones, roads, buildings or slopes among others, shaping your realistic development area in one click! Inputs from our preset GIS library or your uploaded layers.



Data available instantly

For any defined screening polygon, wind resource, bathymetry or topography and other relevant inputs load instantly to start analyzing, regardless of its extension or location around the globe.

Connect your farm to grid

Available database with existing onshore substations worldwide or create your own if it in planning phase as screening input.

Choose split accuracy

Polygon split into subareas or pixels, based on density MW/km² for costs trend behaviour or for your specific site capacity.

Accurate LCoE heatmaps

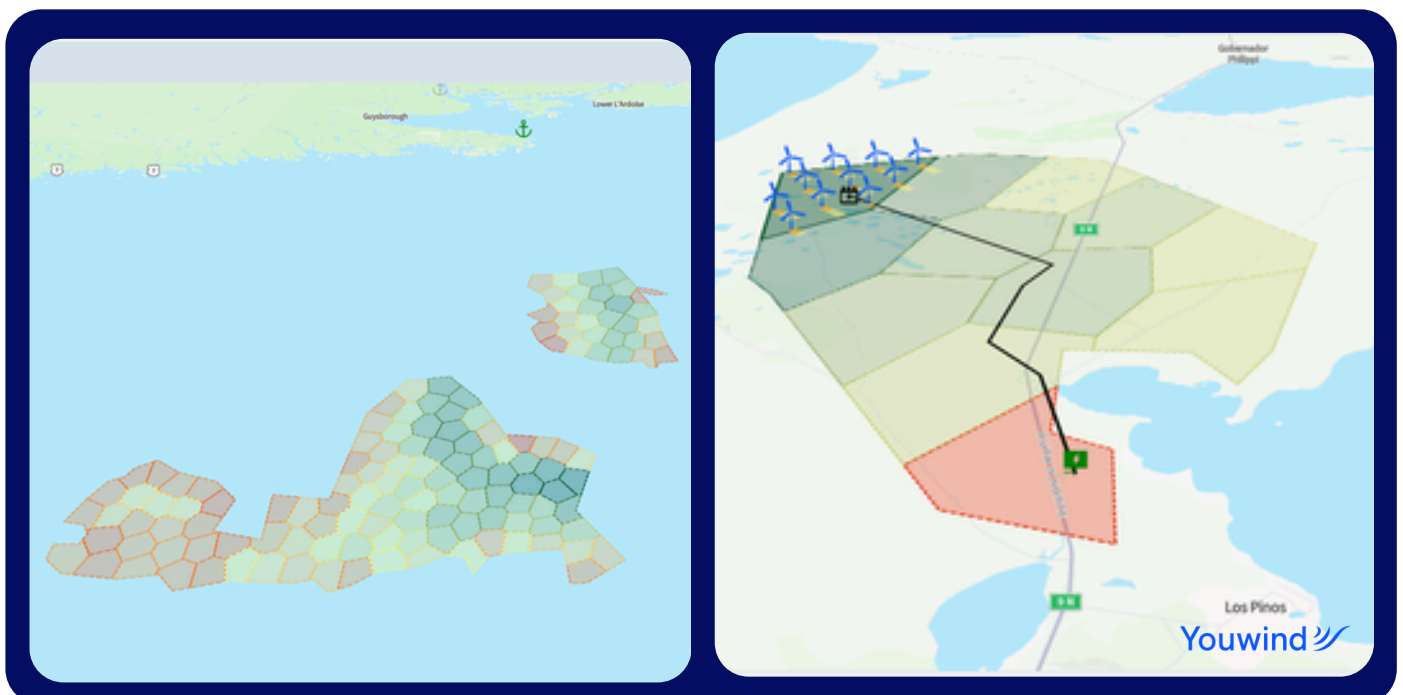
Calculate holistic LCoE heatmaps considering wind resource, water depth or topography, distance to grid connection and harbour.

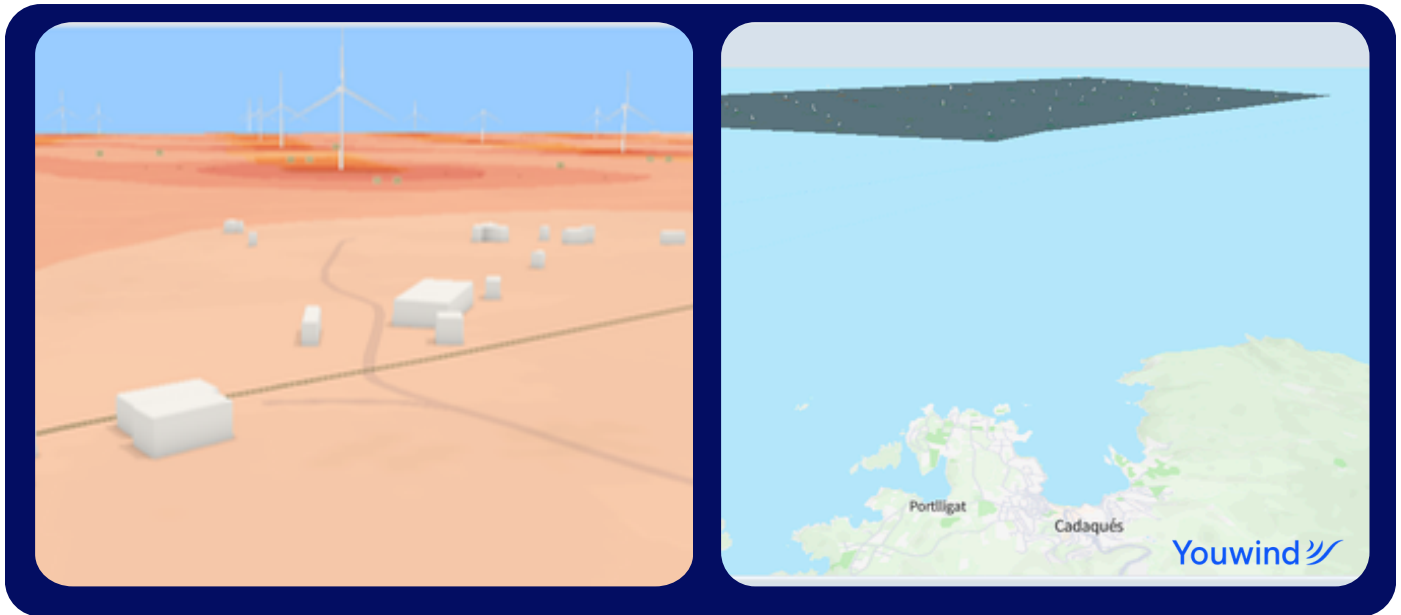
Filter to find your site

Subregions filtering and sorting capabilities for many criteria (LCoE, IRR, max water depth, ...) for easy site selection and sites comparison.

Select your preferred site

2D and 3D Map with drawing capabilities and possibility to upload your polygon and constraints. Define exclusion areas inside the area. Ready to start the design phase!





2D and 3D views

Assessment of visual impact using the 3D map with main components in real proportion for a realistic assessment.

Choose your viewpoint

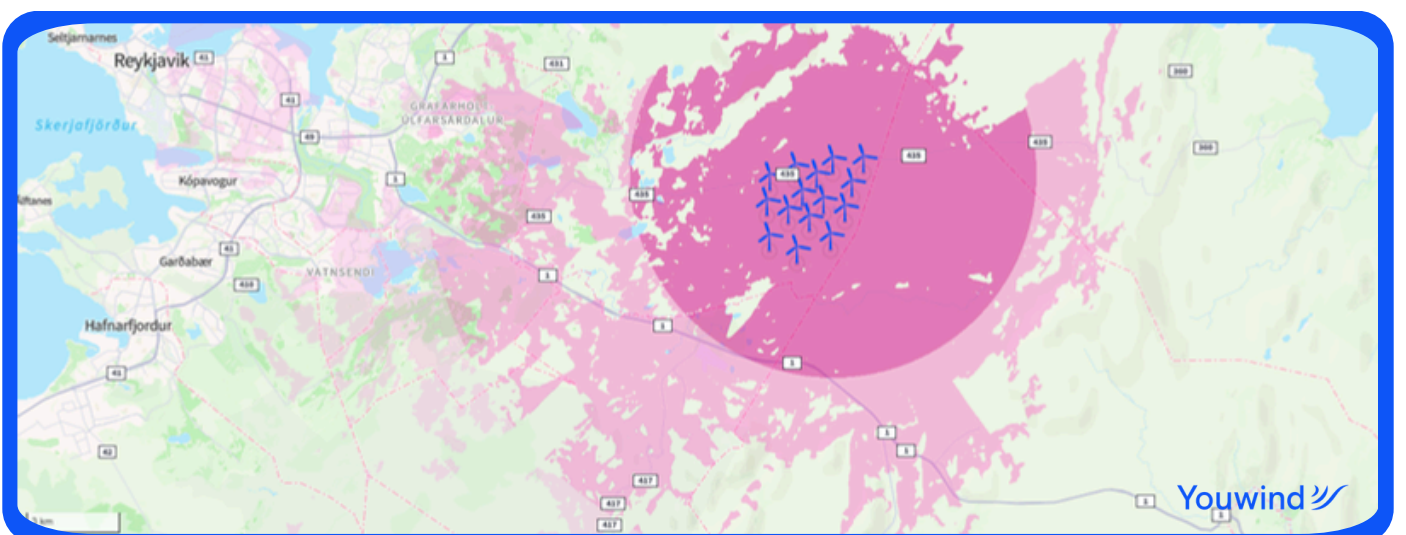
Generate charts with impact from different viewpoints to provide a more realistic view of your project.

Viewshed

Assess where your farm will be fully or partially visible, taking into account topography.

Involved stakeholders

Improve transparency when engaging with local communities and stakeholders for alignment of expectations.



BATTERY ENERGY STORAGE SYSTEM (BESS)



BESS Module

Ability to hybridize your wind farms to optimize asset performance, or to analyze BESS projects as standalone systems.

BESS library items

Select BESS and power conversion systems (PCS), e.g., MV Converter Skid or Transformer with Inverter, fences, and roads directly from the Library items. Predefined presets are available for clients, with the option to create and customize user-defined BESS or PCS for the project's suppliers.

Site Screening

BESS site screening considers exclusion zones and development constraints, applying buffers for green areas and generating road layouts, with the remaining available area used for layout design.

Layout generator

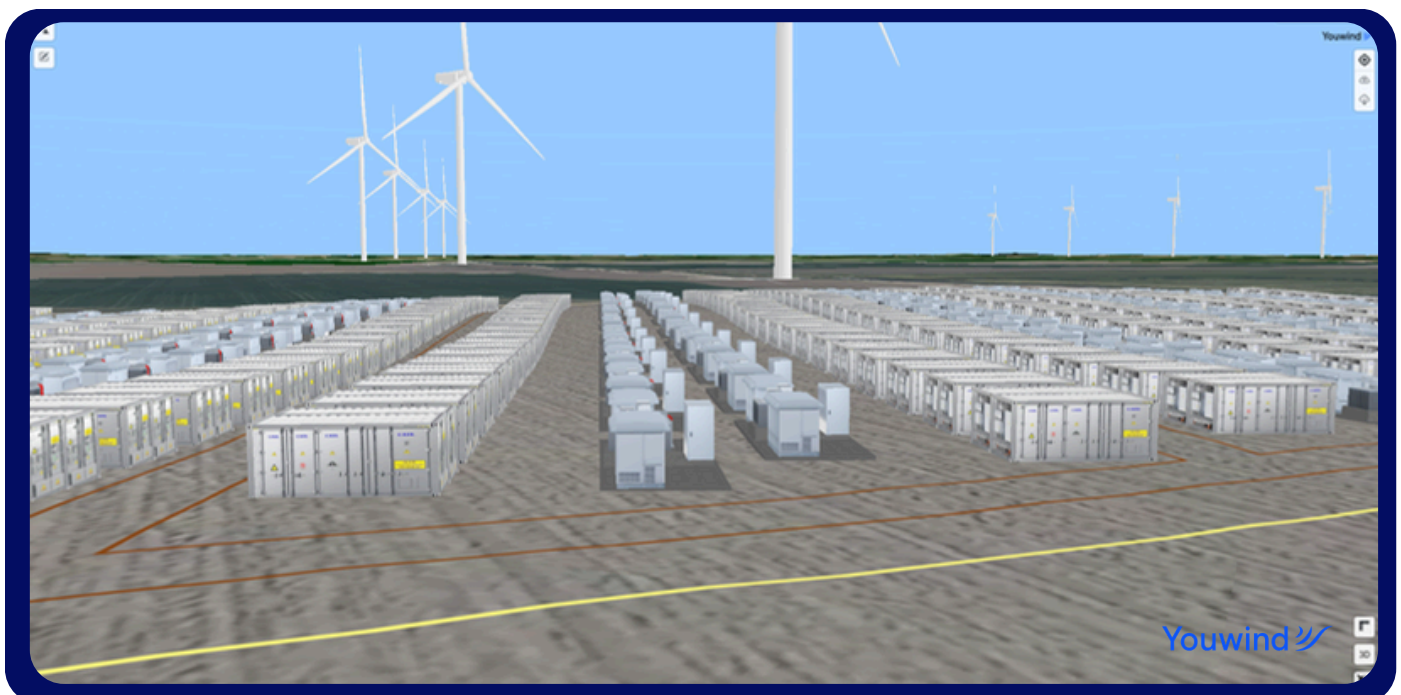
Layout generator with options to maximize installed capacity within the buildable area to fully utilize available space or to design the plant to meet a specific export capacity target (MW), suitable when grid or export constraints are predefined. Select your preferred layout orientation and change your suppliers to see what fits your site the best. The generated layout includes BESS, power conversion systems, roads, and green zones. Ability to manually add and position the BESS and PCS.

Business case

BESS costs are calculated in the scenario's financial analysis.

Environmental impact

Realistic 3D visuals for stakeholder management.



FINANCIAL AND COST MODELLING CAPABILITIES



Project costs breakdown

Lifecycle costing: from Development Costs (DEVEX), Capital Expenditures (CAPEX), Operational Expenditure (OPEX) and ABEX (Dismantling costs) with detailed bottom-up approach.

Bringing context to finance

Financial parameters for the specific market and project: inflation rate evolution, WACC, depreciation. Set Real Year and Final Investment Decision Year.

Engineering and finances meet

Make advanced financial assessments with the integration with bankable yield and cost assumptions for derisking investments.

Detailed Cashflow table

From DEVEX and including any payment schedule estimation down to dismantling.

Electricity pricing

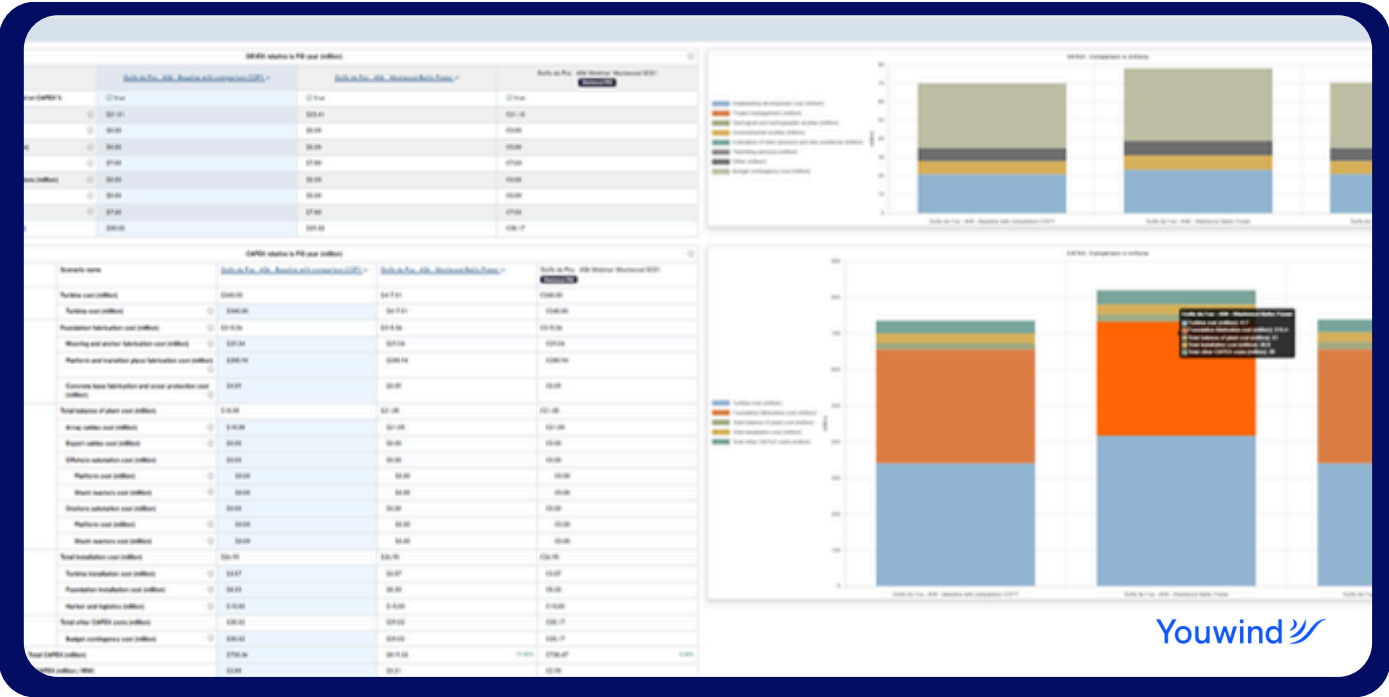
Revenues outputs based on electricity market prices, PPAs or subsidy all in time domain.

Currency flexibility

Change the project finance output values to any currency for global portfolio comparison.

Business case overview

Calculate LCOE, IRR and NPV for unlimited scenarios and drill down what exactly impacts most in your built business case with easy comparisons.



**COLLABORATION
AND DATA SECURITY
CAPABILITIES**

Simulations in parallel

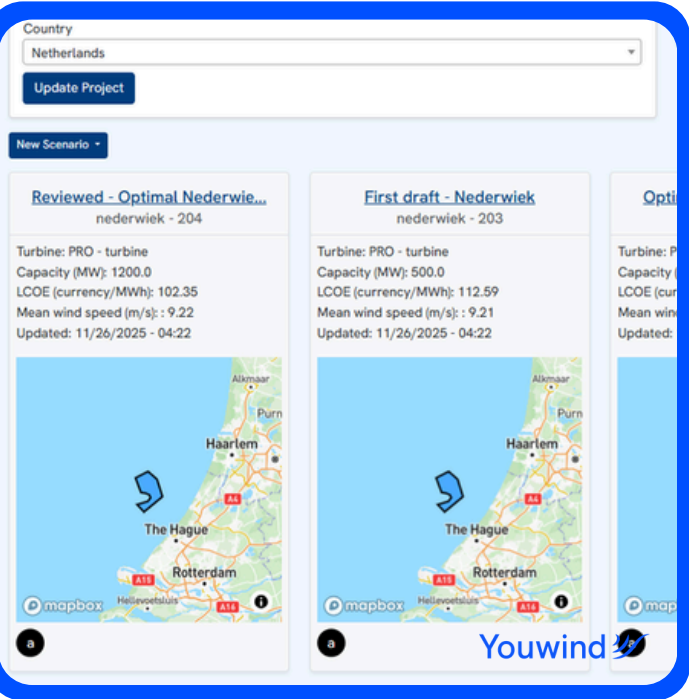
Duplicate your scenario, change name and parameter to analyse its sensitivity to production and business case and run a new simulation in few clicks. Simulate unlimited scenarios in parallel.

Clear status on your runs

Keep an overview of your simulations status, whether they have just started, how long left to complete and when they are completed to ensure a good comparison with latest runs.

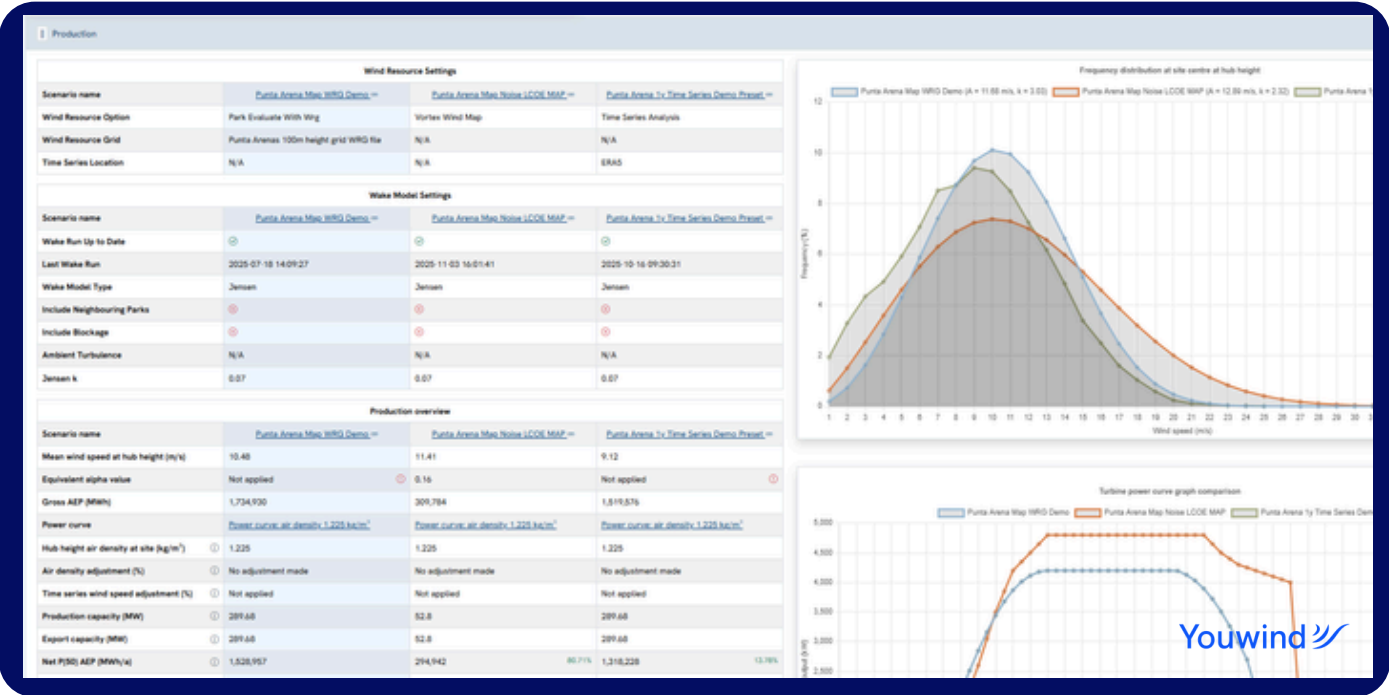
All scenarios in one place

Select finished simulations and place all scenarios in one dashboard to compare technical and cost outputs.



Customized dashboard

Choose, for each sensitivity analysis which outputs matter most to your study to present to your teams, from overall results down to advanced detailed outputs.



Component libraries

Major and secondary wind farm components including relevant technical, costs data and assumptions as inputs to simulations.

GIS layers

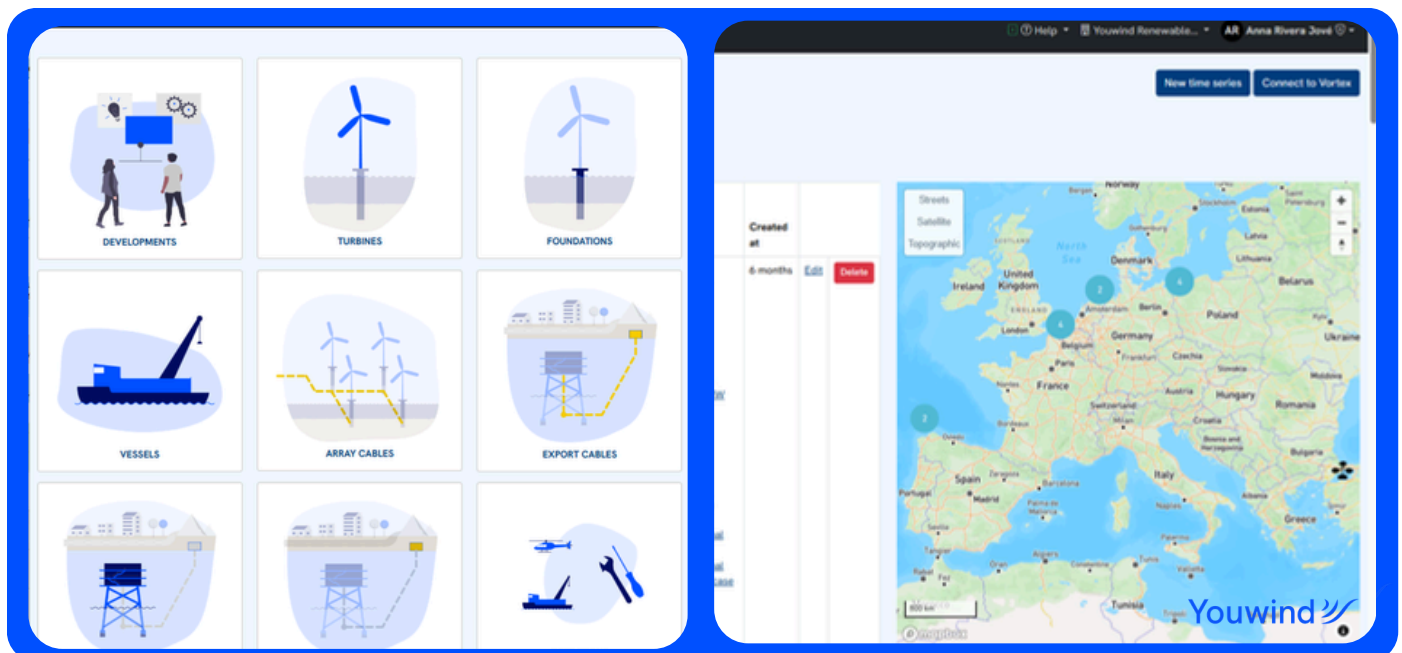
Centralize all your uploaded GIS layers or include your ArcGIS/QGIS database with a simple link to our platform. Keep track of datasource and last update date.

Wind resource data

Link your Vortex account directly to import purchased datasets like FARM or, TIMES, and upload your WRG or time series files from any source.

Traceability for all libraries

Keep data traceability centralized in one place, including also auxiliary libraries for Logistics enablers, electricity prices, Development and O&M strategies.



Preset datasets as starting point

For the very early phases, preset data of commercial turbines, foundation concept and electric parts are provided, including technical and costs estimates, which are validated by Youwind experts and updated regularly.

Expand them with your data

Duplicate a preset or create a new item from any library to customize them to your projects input data. Ability to expand libraries at scale.

Confidentiality is key

The data you upload is strictly confidential and hence accessible only to the approved users within your company.

Cloud-based solution

Multiple users can edit scenarios, giving yield engineer, electrical, foundation, GIS and financial the same platform to work on without other tools.

Project-based Access

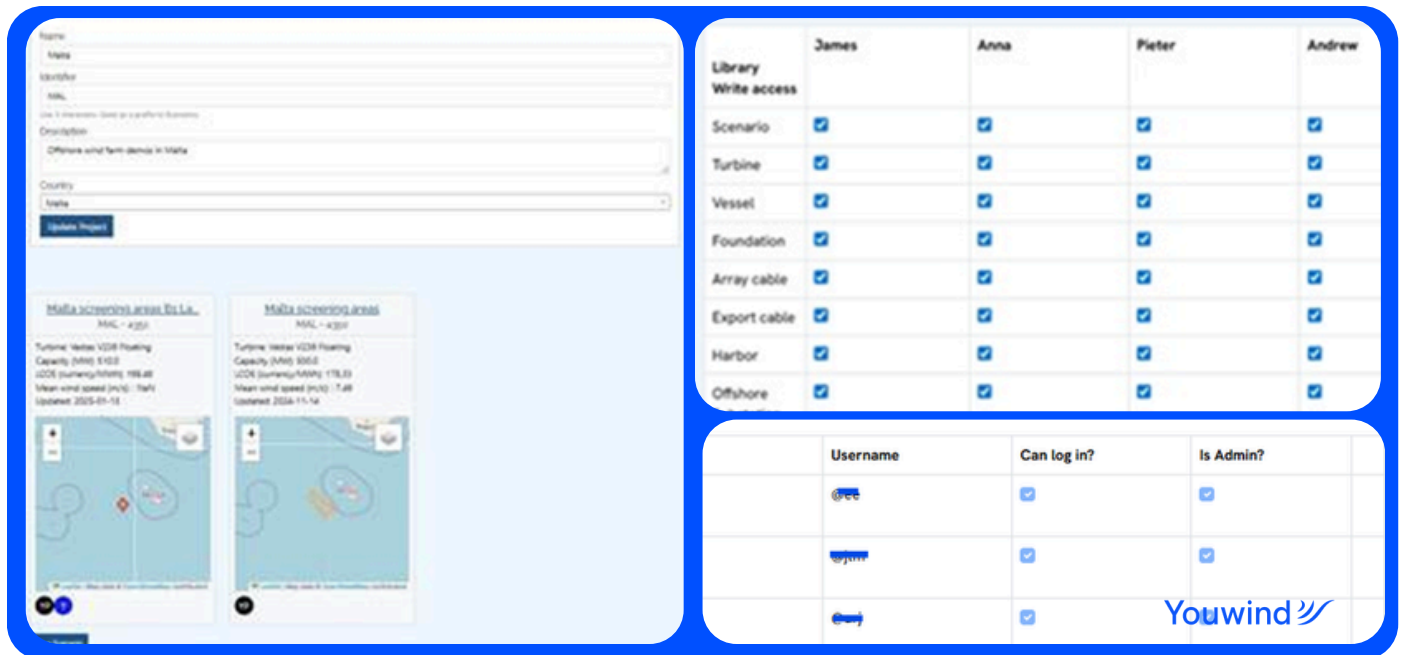
Access to projects and their related scenarios can be configured per user.

User Permissions

The Admin user can assign different permission levels, such as read or edit rights, based on each user's area of expertise or role.

Traceability enabler

Change log to track and monitor the different changes per user.
Ability to add comments and trigger notifications for team members.



The screenshot displays the Youwind platform interface. On the left, a project details form is visible with fields for Name, Identifier, and Description. Below this, two scenario cards are shown, each with a map and key performance indicators (KPIs) such as Capacity (MW), IECG (summed/total), and Mean wind speed (m/s). On the right, a table titled 'Library Write access' shows permissions for four users: James, Anna, Pieter, and Andrew. The table lists various components like Scenario, Turbine, Vessel, Foundation, Array cable, Export cable, Harbor, and Offshore, with checkboxes indicating access levels. Below this, another table shows user login status and admin privileges for three users: jee, jay, and jay.

Library Write access	James	Anna	Pieter	Andrew
Scenario	☒	☒	☒	☒
Turbine	☒	☒	☒	☒
Vessel	☒	☒	☒	☒
Foundation	☒	☒	☒	☒
Array cable	☒	☒	☒	☒
Export cable	☒	☒	☒	☒
Harbor	☒	☒	☒	☒
Offshore	☒	☒	☒	☒

Username	Can log in?	Is Admin?
jee	☒	☒
jay	☒	☒
jay	☒	☒

Case Management

Users can assign categories for the scenarios such as Base Case, Risk or Alternative case to enable consistent comparison and improve project management and analysis.

Data Quality

Items and scenarios can be locked to ensure data consistency and prevent unintended changes. Users can assign data quality maturity levels to key wind farm components.

Turbine power curve

Ability to control the visibility of the turbine power and thrust curves for specific users.

Multiple companies

Multiple domains potential that is suitable for consortium of different companies.

Downloading flexibility

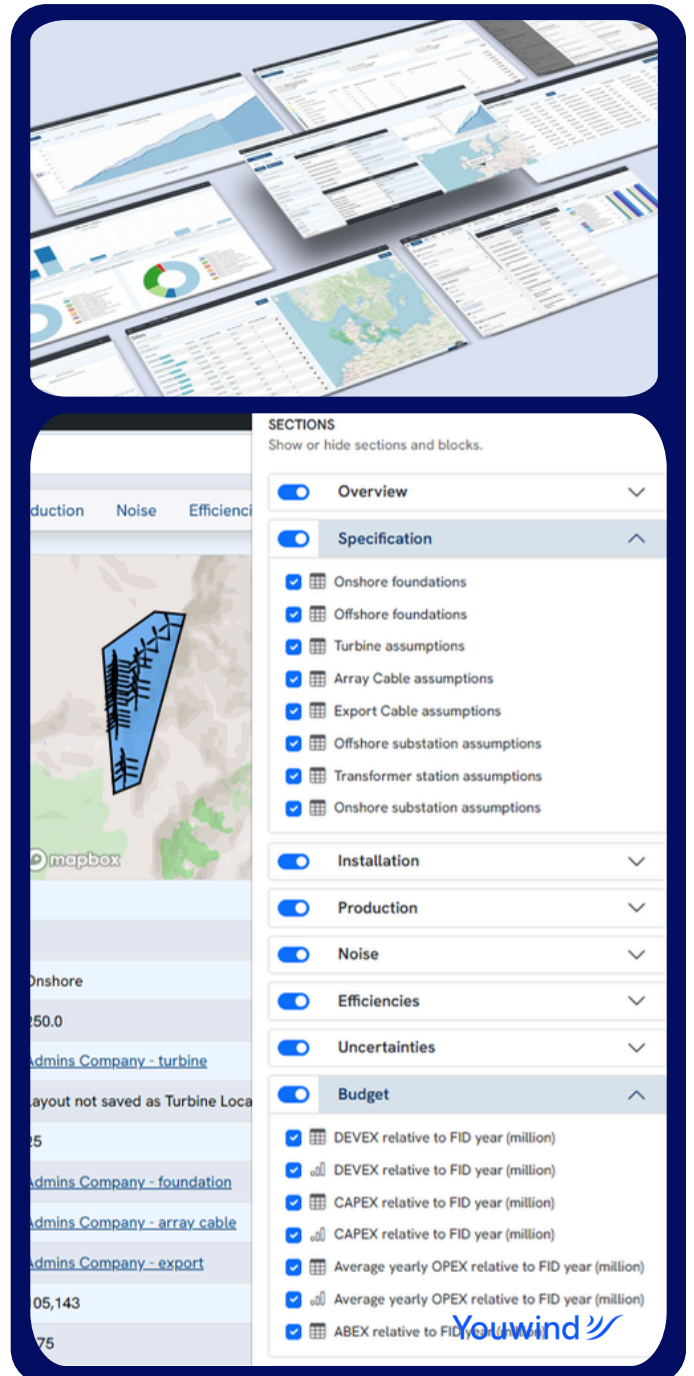
All results from the platform are available for download in recognised formats for further processing, from basic tables and combined with images, to GIS formatting with chosen level of detail.

Customized dashboards

Create customized and shareable views within the Scenario comparison dashboard. Choose from all available simulated outputs and data for each layout, at the needed level of detail.

Adapt to your audience

Whether you need to report to a technical lead with high level of detail from your engineering work, or provide a high level sensitivity analysis including chosen hypothesis and financial outputs for a board meeting, our platform adapts the reporting for any target, neatly presented in tables or graphically.



Data portability

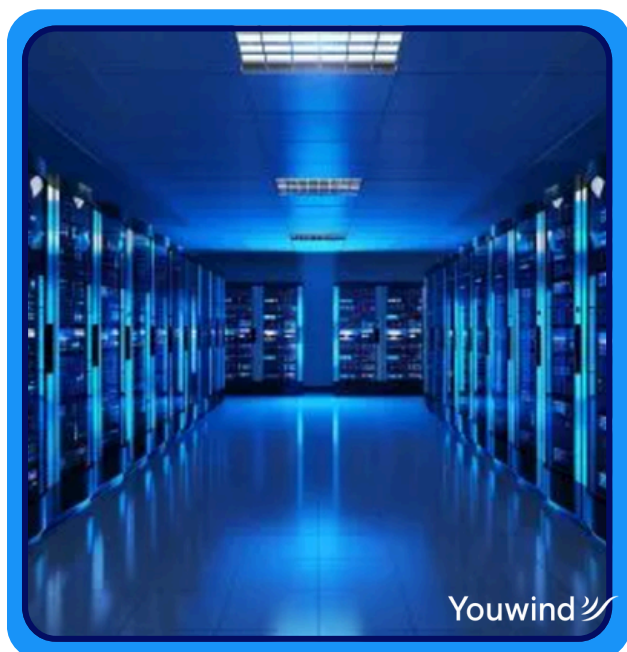
Upload several components profiles/GIS layers at once to Youwind libraries in bulk.

API and webhooks

Link directly with an API to your own internal tools with our support for lean workflow. Configure webhooks to automatically push scenario updates to your internal reporting systems (e.g. BI dashboards, internal databases, custom analytics tools).



DATA SECURITY



Secure authentication

Secure login with 2FA Authentication systems, such as SSO or Microsoft login Authenticator. All data traffic using HTTPS is fully encrypted.

Servers security protocols

Your data is safely secured by prestigious servers' provider, located in different EU countries, including recurrent backups systems.

Cybersecurity is key

Our internal and external data security protocols are strictly applied for your own data safety.

Contact us to learn more about
our platform and its capabilities



Youwind 

www.youwindrenewables.com