



Preciso[®] wind

Identification and analysis of possible wind farm sites.

One of the most critical aspects in the feasibility study of an on-shore / off-shore wind farm is the identification of the optimal site, through the preliminary analysis of the local wind regimes (wind reanalysis).

Preciso[®] wind is a wind reanalysis service developed to identify and characterize the optimal sites for the installation of wind turbines, through wind modelling and reconstruction and without the need for long and expensive wind measurement campaigns.

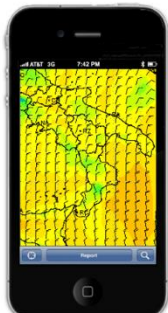
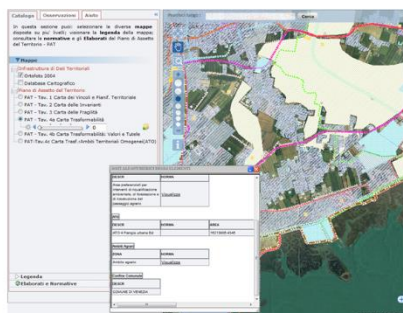
Planetek Italia has also published the web portal www.atlanteeolico.it which enables users to generate and download a PDF report of wind statistical data on any spot in Italy.

Target

investors, wind turbines producers, private sponsors, banks, legal and technical advisors, public administrations.

Key Benefits

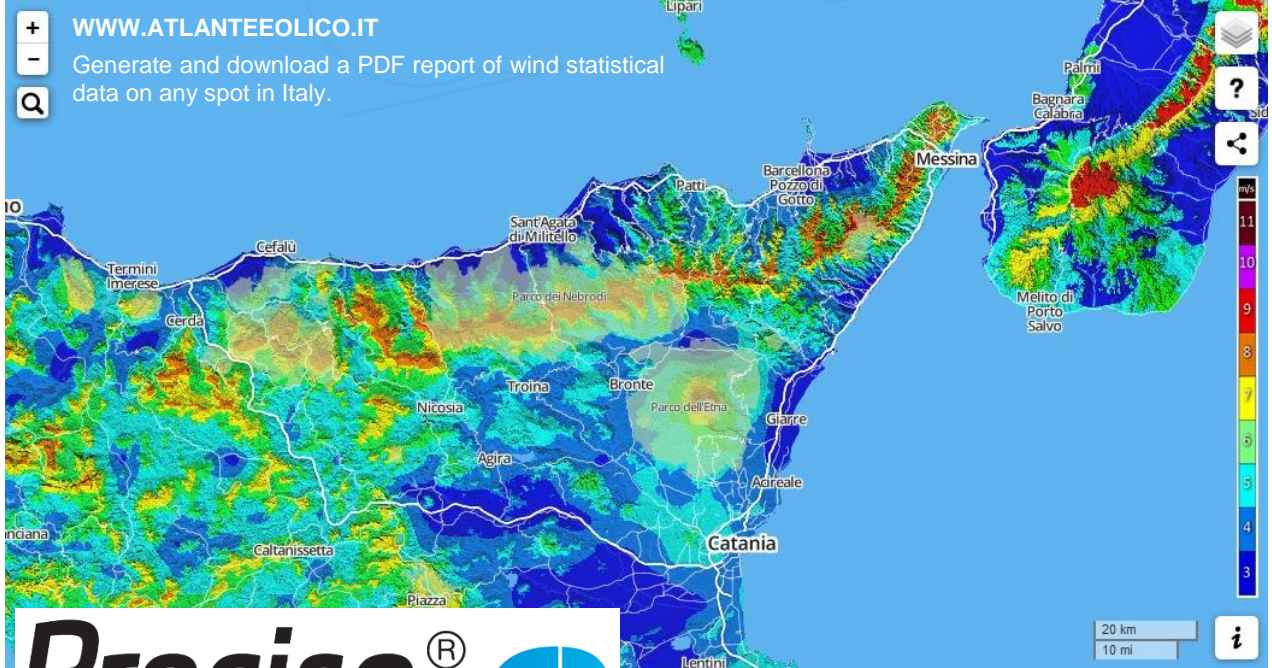
- **Fast:** direct wind measurements not needed; wind and power reports are produced quickly with the availability of the multi-annual computational results previously obtained by the model.
- **Cheap:** it doesn't depend on the availability of anemometers and it doesn't require their purchase / installation.
- **Accurate:** the use of physical quantities like air density, other environmental parameters (ground roughness, orography) and several years of wind data reduces the uncertainties due to seasonal / annual wind variations. Calculus are executed using the real wind data distribution (which is characterized by a 10-min sampling frequency).



Preciso[®]
wind



More info
www.planetek.it/eng/preciso_wind



Preciso[®] wind

Technical characteristics

- Wind reanalysis
- Data availability at different heights
- Integrated meteorological models
- Environmental restrictions management
- Reporting
- Comparative analysis between different wind turbines.

Preciso [®] wind		
Features	Preliminary Analysis	Producibility Analysis
Mean wind Speed	✓	✓
Weibull Parameters	X	✓
Mean wind Direction	X	✓
Mean air density	X	✓
Wind Speed/ Wind direction /Air Density Graphs	X	✓
Restricted Areas Analysis	✓	X
P50 Producibility	X	✓
P75 Producibility	X	✓
P90 Producibility	X	✓



Satellite orthoimages for the timely monitoring of changes on the territory.



Cognitive Framework for Urban Planning & monitoring of Strategic Environmental Assessment (SEA).



Urban monitoring and recognition of illegal construction.



Cognitive Framework of marine and coastal areas and public defense works.



Geospatial Indexes for Territorial Planning & Strategic Environmental Assessment. Monitoring of soil loss.



Fast acquisition of satellite imagery in emergency situations.



Landslide identification and monitoring for infrastructure planning and management.



3D maps and study of land changes for infrastructure planning and management.



Identification and characterization of optimal sites for wind power plant settlements.



Geoportals for e-Participation and dialogue between organizations and citizens in the planning process.



Planetek management system is certified ISO 9001 and compliant to the European Association of Remote Sensing Companies (EARSC) guidelines defined for the provision of remote sensing services.

