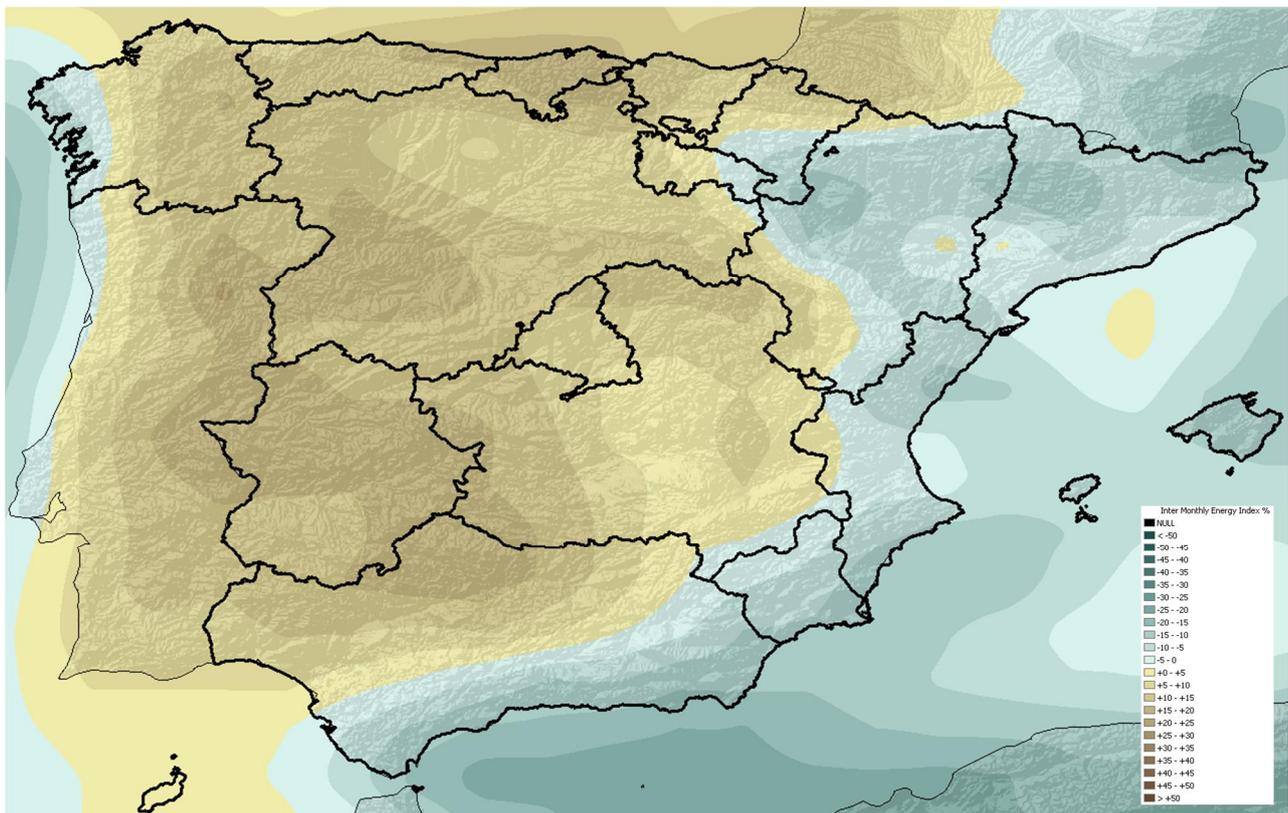




NEW 'WIND INDEX' SERVICE

Nayxa Energy Services (www.nayxa.com) offers a new service called monthly wind index study, available for any operating wind farm throughout the world.

Madrid, 15th October 2012 – Nayxa Energy Services, an engineering company specialized in the wind resource assessment and site assessment field offer to his clients a new service: monthly wind index studies for operating wind farms.



Inter monthly wind index, May 2012 with respect to the period 2004-2012 for the Iberian Peninsula.



¿What is the wind index?

The wind index might be defined as the set of fluctuations of the wind speed and the energy yield that the wind farms experience throughout their life span. The expression wind index is associated with a temporal base which is used as the reference to obtain the wind speed and energy yield factors that a wind farm has shown over that period with regards to a historical period.

¿Why a wind index study is necessary?

The operation of a wind farm is a complex task which is affected not only by external factors such as wind but also by internal factors like maintenance and performance of the wind turbines. The different wind index maps offered by Nayxa make it possible to distinguish between these factors and therefore become a very useful tool in the operation of a wind farm.

At Nayxa we offer to our clients 6 different wind index maps that can be delivered on pdf or Google Earth formats. These maps are:

- Monthly mean wind speed with regards to the mean historical wind speed.
- Yearly mean wind speed with regards to the mean historical wind speed.
- Monthly mean wind speed with regards to the mean historical wind speed of this month.
- Monthly energy yield with regards to the mean historical energy yield.
- Yearly energy yield with regards to the mean historical energy yield.
- Monthly energy yield with regards to the mean historical energy yield of this month.

Through the different wind index maps it is possible to obtain answers to the following questions:

- Should our wind farm have produced more energy during the last month?
- Did we have an acceptable wind, low wind or high wind during the last month of operation of our wind farm?



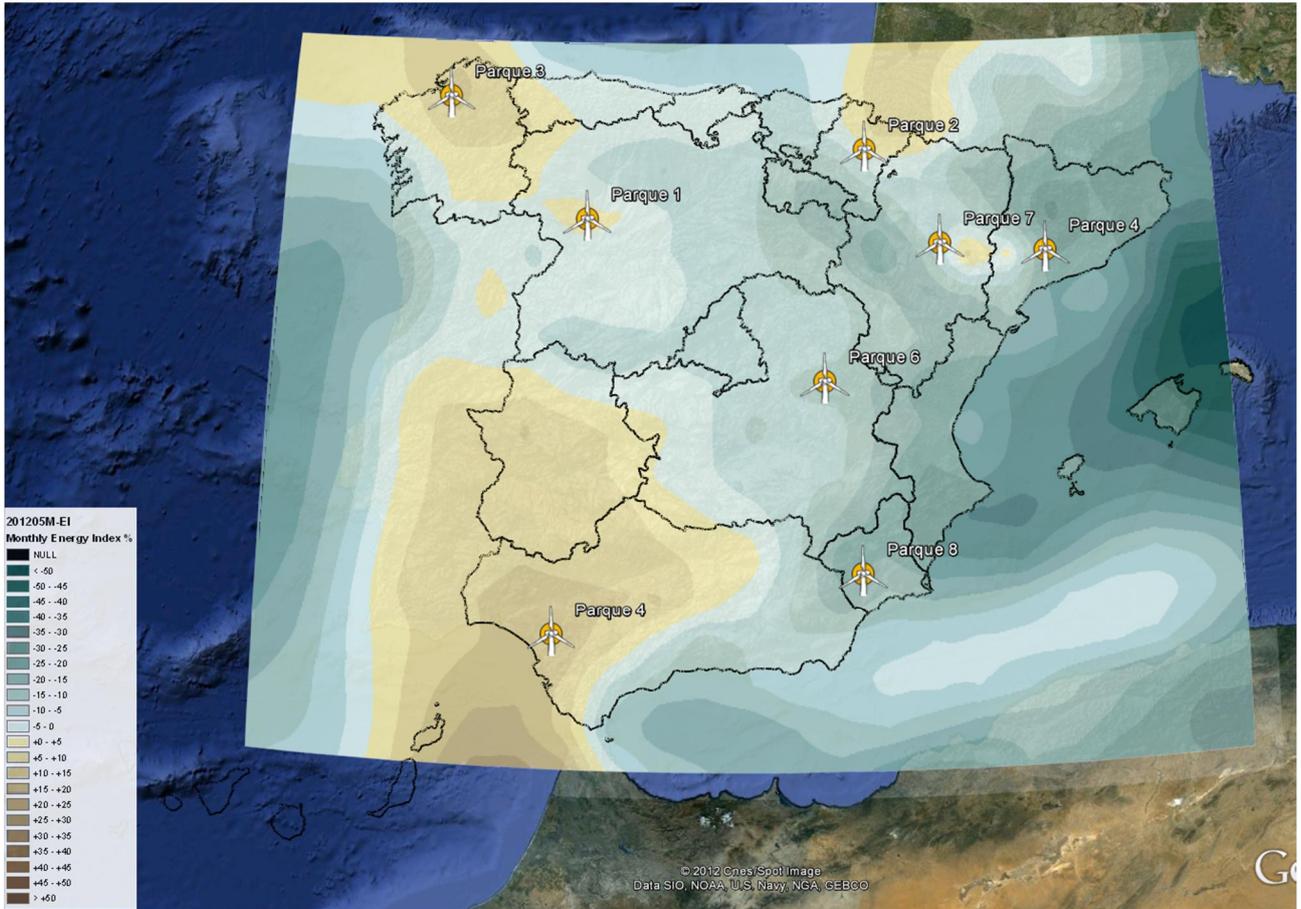
- We have had a low production in our wind farm lately; is it because of a low wind tendency or did we have a problem in the operation of our wind farm recently?
- We have several operating wind farms in a country; what kind of wind regimes have we had lately in these wind farms? Which wind farms should have produced more energy?
- What are the different types of wind affecting our sites? Are we experiencing a good or a bad year from a wind point of view?

Methodology used to obtain the wind index maps

In order to obtain the wind index maps, Nayxa uses different international reanalysis data bases and combines them by means of a complex interpolation algorithm. Such process maximizes the temporal and spatial resolution of the data and allows us to reach an hourly temporal resolution and a geographical resolution of 1 kilometer.

The historical reference period selected, 2004 – Present, assure us the use of the same input data avoiding temporal tendencies that might affect the results. The uncertainty is calculated to stand for 2% in wind speed and 4% in energy yield. Such uncertainty does not take into account the very local effects that some wind farms might experience.

The output format Google Earth allows us to obtain very quick visuals and conclusions about the wind conditions that our wind farms have experienced throughout the last month or the last year. In the next page an example of this format is shown.



Energy yield of May 2012 with respect to the period 2004-2012 at the Iberian Peninsula



Prevailing and local winds of Spain



In the last plot it is possible to observe that the tool is capable of distinguishing and predicting the behavior of the different dominant and local wind regimes affecting the Iberian Peninsula.

The monthly service of wind index is available for any territory or country of our clients' choice at an extraordinary competitive price. Please consult us for discounts when several products might be required.

For more information you might contact Nayxa Energy Services through our web site www.nayxa.com or the following mail address info@nayxa.com



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About Nayxa Energy Services

Nayxa is a leading independent consultancy company in the area of wind resource assessment and site assessment. At Nayxa we work with commercial software like WAsP or WindFarmer but also with the state-of-art when it comes to in-house wind software development. A continuous research and development plan is carried out at Nayxa.

At Nayxa our philosophy or working is directed and related to a permanent contact with our clients, personalizing at any moment every single project. At Nayxa we have worked as wind resource consultants in more than 20 countries all over the world developing over 10,000 MWs of wind power projects. We are willing to face new challenges and projects and help our clients develop their wind farms.

THE FUTURE IS RENEWABLE!