Screening
– Maximize your measurement investment

It is important for a developer of wind power projects to be able to focus on the projects that will give the best return of investment (ROI) as early as possible in the development phase. This is especially important in areas where the price of electricity is low, where the wind resource is neither obviously good or bad i.e "borderline" sites. Furthermore, in times when the economy is slow it is further difficult to receive project financing which results in smaller project and measurement budgets and thereby less financing is ear marked for measuring.

In the early screening process when promising projects are to be selected, the use of an **AQ500** can reduce the costs significantly. Instead of making an significant investment in a high meteorological mast that will be installed on a site for at least one year, not knowing if the wind resource is enough for further development, an **AQ500** can be put on the site for six months. The measurements are evaluated and used as a decision basis whether the development should continue with more measurements (met mast in combination with **AQ500**) or if the project should be abandoned.

Example: A project developer has 10 potential sites to investigate. The developer installs one 120 meter met mast at each site and measures for 12 months. The cost for each met mast, including monitoring and data analysis is approximately €113 000 where the absolute majority of the cost is the met mast and instruments.

If the developer rent an **AQ500** for six months, instead of installing a met mast, the cost per site is €33 000. After six months it is possible to get an idea of the wind resource at the site without having to invest in a met mast. It is of course also possible to measure with a met mast for only six months. But since the bulk of the cost is related to the met mast itself developers tend to keep it on site for at least 12 months anyway.

For the developer with the 10 sites, the difference in screening cost between the met mast and **AQ500** alternative is about €800 000! And as a bonus the **AQ500**, if deployed on the right location, can continue to measure in combination with a met mast if the decision to continue the project is made. This does not only save money, but will also make the project progress faster.

Daniel Gustafsson, Project Manager at Vattenfall:
"We currently have 35 AQ500 deployed in various measurement campaigns in Sweden and elsewhere in Europe. Due to their mobility and high data availability, we see them as a useful tool in our measurements campaigns."

The key features of the **AQ500** is the robust construction that allows it to measure during a wide range of meteorological conditions, **the high data availability**, **the mobility**, **the low price** compared to high meteorological masts and the fact that **no building permits** are necessary to install the instrument.

Do you want to increase the profit in your projects? Screen your projects with the AQ500!

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AQSystem
Remote sensing technique

www.aqsystem.se