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Wind Farm Due Diligence

As part of our wind consulting services, our experts at Barlovento Applus+ carry out technical due diligence (TDD) for wind projects to conduct a comprehensive assessment of the technical aspects of wind farm projects in the development and operations stages. Barlovento Applus+ has an extensive experience as a lender technical advisor, vendor, and investor advisor for wind projects. Wind farm due diligence is essential to identify and mitigate risks, make investment and financial decisions, and ensure a successful acquisition.

THE Applus+ SOLUTION

Our technical due diligence services involve a thorough review of various elements of a wind project or a portfolio of projects which can potentially hybridize with solar photovoltaic technology. This service can be provided for wind farms that are in the following stages of development:

- Early development: wind projects that are in the feasibility phase or at an early stage of the development process.
- Advanced development: wind farms ready to be built or close to this stage, when bankable measurements for energy yield assessments are necessary.
- Under construction: in this phase, the general design, permitting, contracts, and construction reports and tests must be analysed.
- In operation: in this stage, the actual state of the project must be determined (energy yield, conservation, OPEX, suitability of existing arrangements, insurance, etc.). Complementary on-site inspections and tests could be recommendable prior to an acquisition. An evaluation of the possibilities of life extension and/or repowering is advisable.

During technical due diligence, we follow the Technical Bankability Guidelines for Wind Investments (World Bank and European Union Horizon 2020).

This process involves a thorough review of various elements, including but not limited to site conditions, wind resource assessment, turbine technology, grid connection, wind engineering and design, environmental management services, permits, and risk assessment.

The goal of wind farm technical due diligence is to identify potential risks, assess the project feasibility, and provide recommendations to optimize performance, mitigate risks, and ensure compliance with industry standards and regulations. It is a crucial step for investors, lenders, and stakeholders to make informed decisions about investing, financing, or acquiring wind farm projects.

Barlovento Applus+ has extensive experience in conducting technical due diligence for financing and acquisition of wind farm projects in Europe, Africa, and Latin America:

- TDDs for wind farms: more than 70 GW in wind energy already operating, as well as other projects in the development phase or involved in administrative procedures
- Advisory services for investors for project financing in more than 6,000 MW (wind).

Target customers

Technical due diligence can be carried out for wind farms in the following phases: early development, advanced development, under construction, or in operation.

Our services for operational wind farms can include hybridization and repowering analysis (energy yield assessment, hybridization energy results, processing analysis, technology review, land availability, grid connection, environmental evaluation, and economic aspects).

Key customer benefits

- Identify and mitigate potential risks of wind farm projects
- Ensure compliance with industry standards and regulations
- Review economic inputs of the financial model
- Make informed investment and financing decisions.