

European Solar and Energy Storage Solutions

Wind power plant investment return analysis



Overview

How to calculate the investment level of a wind power project?

When calculating the investment level of the wind power project using the economic evaluation indicator, the detailed information of the annual cash flow and the cost at each stage is required. Currently, it is an effective method to establish a life cycle cost model to estimate the cost and cash flow at each stage.

How accurate is life cycle cost estimation of wind power plant?

The whole life cycle cost estimation of wind power plant is an investment estimation process involving a long time, multiple departments and multiple uncertainties. The accuracy of life cycle cost modelling directly affects the accuracy of economic evaluation. Fig. 10. Life cycle cost composition of wind power project.

What is the initial investment cost of a wind power project?

The initial investment cost includes the total investment in planning and design stage and construction stage. In this process, the investor usually adopts the form of 20 % cash flow and 80 % loan. During the construction and operation stages, the cumulative curve of the life cycle cost plan of the wind power project increases rapidly.

What is the cost modelling of wind turbines & power plants?

Among them, the cost modelling of wind plant was divided into balance of station cost and operation expenditure . This model estimated the cost of wind turbines and power plants, and combined the layout and power generation estimation results to evaluate the economics of wind farms.

What is the economic analysis flowchart of wind power project?

The economic analysis flowchart of wind power project is shown in Fig. 9, which can be divided into three steps: data acquisition, energy production and

investment calculation, and scheme comparison. At first, the environment data, wind farm design data and economic data are obtained.

What is life cycle cost modelling & economic analysis of wind power?

The life cycle cost modelling and economic analysis method of wind power have been widely used in the feasibility analysis of wind power project construction.

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