Feasibility of wind-deficient gas power generation

Which journals are used in the feasibility analysis of wind generation?
Annual distribution of sample articles. Fig. 5.4 shows the most present journals in the sample,indicating that the three dominant journals for the feasibility analysis of wind generation are Renewable Energy,Energy Policy,and Renewable and Sustainable Energy Reviews.

Are wind Investments economically feasible?
In the last decade, there has been an exponential growth in publications about economic feasibility of wind investments. The wind investments growth has been accompanied by financial studies about this subject. This study provides insights on the main variables used in wind energy feasibility studies.

What factors affect the economic viability of wind farms?
These factors can directly impact the cost of capital and/or energy production,affecting the economic viability of wind farms. In the last decade,there has been an exponential growth in publications about economic feasibility of wind investments. The wind investments growth has been accompanied by financial studies about this subject.

How is the economic analysis of wind power generation conducted?
An SLR was conducted following the guidelines from the literature . A sample of 317 articles was extracted from the Web of Science and was analyzed using bibliometric quantitative techniques associated with qualitative content analysis. The main contribution of this article is an overview of the economic analysis of wind power generation.

Why are the terms "wind energy" and "renewable energy" relevant?
The terms "wind energy," "power," "renewable energy," and "energy" are relevant because they are the largest nodes,despite not being the most recently used.

Why is wind energy a key issue in project planning?
The growing energy demand in the world and the concern for environmentally damaging energy sources have led to an increased interest in seeking alternative renewable energy sources,such as wind energy. Furthermore,choosing effective locationsfor wind power plants has become a key issue in project planning.

flexibility which supports the power grid to allow more power generation from connected intermittent renewable energy sources. It is also shown that this new hybrid power plant will ...

Pakistan is a developing country and is located in the region of South Asia with coordinates of latitudes 24° and 36° north and longitudes 61° and 76° east (Mengal et al., ...

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In this paper, feasibility of different scale of wind power generation in 35 different places is studied in the perspective of Wind Power Density (WPD) and Plant Capacity Factor ...

This article is a systematic review of the literature carried out with the aim to identify the main factors that impact the economic feasibility of wind energy investments. The ...

Hydrogen is a low carbon technology that can be utilized recently for gas fired power plants with a potential capacity of about 14.3 GW but has a very low energy density and hard and expensive to ...

The analysis of case studies by considering candidate capacities through multiperiod stochastic Optimal power flow in Matpower Optimal Scheduling Tool reveals the most feasible capacity of ...

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forecast to be double the levels in 2020, and the annual growth of solar power generation is projected to reach 130-165 GW [4]. If this trend is maintained, the ratio of solar power and ...

The[59]. power of the average speed at anemometer level zathe, and a is the power index Thecurve power the wind turbine is presented in Figure 10, which shows the amount of power ...

Hydrogen is a low carbon technology that can be utilized recently for gas fired power plants with a potential capacity of about 14.3 GW but has a very low energy density and ...

Based on the data obtained from one of the Malaysian offshore oil and gas fields, the economic feasibility of harnessing wind energy for hybrid power generation in a low wind speed area is analyzed for the first time.

The randomness of generated power by renewable energy resources has led experts in this field to provide sustained and permanent load supply with hybrid renewable energy systems (HRESs). This study ...

computer interfacing, and software for system operation. The pulsating input power pattern for the wind power station is another major problem. Moreover, there are various problems while ...