
Base station power supply transformation project post-evaluation

Can a base station power system model be improved?

An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters. And through this, a multi-faceted assessment criterion that considers both economic and ecological factors is established.

Does converter behavior affect base station power supply systems?

The influence of converter behavior in base station power supply systems is considered from economic and ecological perspectives in this paper, and an optimal capacity planning of PV and ESS is established. Comparative analyses were conducted for three different PV access schemes and two different climate conditions.

Does loss of power converters affect the optimization of base station PV and ESS?

The main conclusions are as follows: The loss of power converters significantly affects the optimization of base station PV and ESS. Calculating with a fixed efficiency cannot accurately reflect the actual situation. The proposed evaluation method achieves a balance in LCC, initial investment, return on investment, and carbon emissions.

Can a base station power system be optimized according to local conditions?

The optimization of PV and ESS setup according to local conditions has a direct impact on the economic and ecological benefits of the base station power system. An improved base station power system model is proposed in this paper, which takes into consideration the behavior of converters.

This paper also digs out the guiding indicators of evaluation, and takes the economic benefits of result transformation as an important evaluation indicator to guide project implementers to ...

Abstract. Post evaluation of power grid investment and construction project is an important part of power grid construction project. The effect of post evaluation will directly affect the quality level ...

A rational technical post evaluation index system is constructed while the comprehensive evaluation method is applied to the technical post evaluation of power ...

Characterized by large number, large transformation scope, different transformation purposes and various transformation contents, it's difficult to evaluate the ...

On the basis of the basic theory of post evaluation of power transmission and transformation project in this paper, it selects the multi-level fuzzy comprehensive evaluation method to ...

This article proposes a post-evaluation model based on game theory to improve comprehensive weighting and fuzzy grey relational projection sorting, which can be used to ...

This paper is in this context, after the evaluation of the power grid construction project, the analysis, and evaluation of post-assessment, nancial evaluation and fi the process ...

The paper not only provides empirical support for 500 kV power transmission and substation projects but also offers a valuable theoretical foundation and practical guidance for decision ...

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