

# Financial opinions on site selection for pumped storage power stations

Are underground pumped storage power stations a viable post mining land use?

Underground pumped storage power stations (UPSPS) is a form of beneficial post mining land use for closed underground coal mines. Its development potential is still largely unexplored in China. In this paper, a two-phase evaluation framework is developed for the site selection of UPSPS from regional to local scale. The main findings are as follows:

Is pumped-storage power station a good choice for Energy Internet?

Pumped-storage power station (PPS) will play an important role in the green and low-carbon energy era of "source-grid-load-storage" synergy and multi-energy complementary optimization. In this context, this paper puts forward a PPS selection evaluation index system and combination evaluation model for energy internet.

Do pumped-storage power stations have a benefit evaluation model?

Based on the characteristics of pumped-storage power stations, this paper proposes a comprehensive benefit evaluation model for the functional, financial, and environmental benefits.

Why is site selection important in pumped storage power plants?

Pumped storage power plants (PSPP), as an important clean energy technology, have great potential for energy storage and conditioning. However, site selection is the primary issue in PSPP construction, which directly affects its economics, environmental impact and social acceptability.

Are hybrid pumped-storage power stations effective?

The evaluation results show that the comprehensive efficiency of the hybrid pumped-storage power stations is excellent, which is consistent with the theoretical perception of hybrid pumped storage and proves the effectiveness of the evaluation model.

Which option is best for pumped storage site selection?

Through sensitivity analysis, we find that although each option changes with the change of indicator weights, P2 is always the best option for pumped storage site selection, and the ranking results of all options remain unchanged, so the evaluation decision method used in this study has good feasibility and scientific validity. 5.4.



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