

Wind solar storage cost vs benefit calculation in Peru

Can wind farms contribute to energy security in Peru?

These findings are valuable for economic planning of wind farms in projects at great height for investors, stakeholders and relevant decision-makers. This provides a great opportunity to increase the percentage of renewable energy in the Peruvian energy matrix in order to decarbonize and contribute to energy security.

Should Peru subsidize on-shore wind energy?

With respect to economic terms, the government of Peru should avoid subsidizing on-shore wind energy, since it has demonstrated improvements in its efficiency and a reduction in its costs, in such a way as to allow for the realization of a route for off-shore wind energy that will require the creation of financing mechanisms.

Is wind energy a good option for decarbonization in Peru?

5. Conclusions Although greenhouse gas (GHG) emissions due to energy generation are not high in Peru, wind energy is presented as one of the alternatives with the greatest projection for decarbonization. Its technological maturity and the reduction in CAPEX and OPEX position it as the most attractive.

What percentage of Peru's energy is renewable?

The Peruvian energy matrix contains a small percentage for renewable energy and the rest represents an important part of more than 90%. Wind generation has reached less than 4% due to a scarce promotion of this natural resource since there are only seven wind power plants in operation. The solar resource reached 4.5% too.

Does Peru have a good model of wind energy development?

It is necessary for Peru to consider as a reference the successful models of wind energy development implemented in neighboring Latin American countries, with the cases of Mexico, Brazil, Uruguay, Argentina, and Chile being references in this matter, countries in which there are an important number of wind farms in operation [46, 47, 48, 49, 50].

Can wind energy technology be used in Peru?

Wind energy technology on an industrial scale has already been successfully implemented in Peru, being increasingly popular and a feasible alternative to apply in different places in the territory with wind resource potential.



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