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Title: Irrigation canal wind blade power generation

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This paper presents the technical and economical feasibility to use wind resource to pump water for irrigation and electricity production in rural area connected to the grid.

The results from the field experiment revealed that the combination of the power generator with the twenty-one degree blade angle HST and the in-line + diffuser + nozzle chamber ...

Therefore, when a microhydraulic turbine is installed in an irrigation channel in a snowy area, snow masses frequently collide with and entangle the turbine blade, thereby deteriorating the ...

The results from the work so far indicate that the supercritical wheel offers a simple, robust and cost-effective solution for power generation in fast flowing irrigation canals.

MODERNIZING IRRIGATION CONDUITS WITH HYDROPOWER POTENTIAL Irrigation canals in the Western United States present an opportunity to conserve water and generate renewable energy

Irrigation canals located in the rural farming area have a potential to be utilized as a power plant. The flow of water in the irrigation channels has a more stable debit flow compared to the river stream. ...

Abstract: Small-scale hydropower is considered one of the most economical, predictable, and environmentally friendly technologies.

How close is your system to power lines? Distance to three-phase power lines and local utility requirements are critical to financial feasibility, so it is important to work with the local utility or an ...

Later advancements in technology led to designs, such as blade turbines, that could generate more electricity within low-flow water applications. Manmade canal systems have an ...



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A case study was conducted for a comparative financial analysis of the turbine proposed in this paper, with wind power and solar photovoltaic decentralized generation in Brazil.

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