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Centrifugal Pump as Turbine for Micro-Hydro Power Scheme in Rural Areas of India: A Review

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Abstract:In global scenario electrification to rural areas, estimates huge initial capital cost especially in operating turbine. In order to satisfy the needs of power demand, a suitable and attractive alternative of using centrifugal pump as turbine is reviewed in this paper. Micro-hydropower projects are the excellent alternative for electricity generation perceptible effect on environment. The action of centrifugal pumps as centripetal turbines can be useful to yield cheap energy in rural zones of developing nations. This study would be very helpful for the performance calculation and selection of centrifugal pump working as turbine. This review encompass on centrifugal pump acting as turbine has been explained on the literature survey through theoretical, experimental and computational works on pump as turbine.

Keywords :Pump as turbine, Rural areas India, micro-hydro power scheme, turbine.

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