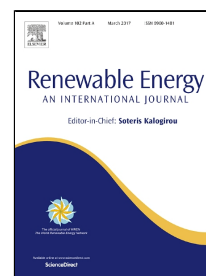


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Experimental investigation of blade number and design effects for a ducted wind turbine

Hamid Ahmadi Asl, Reza Kamali Monfared, Manouchehr Rad



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Highlights

- Rotational speeds of the impellers were augmented more than 2.1 times by the duct.
- Greater blockage was observed in the ducted turbine more than the bare one.
- More resistant force was exerted to WP impellers due to larger surface on the head.
- The attack angle of 75 deg. had the most rotational speeds among the tested angles.

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