

## Review of Various Designs and Development in Hydropower Turbines

**Authors :** Fatemeh Behrouzi, Adi Maimun, Mehdi Nakisa

**Abstract :** The growth of population, rising fossil fuel prices which the fossil fuels are limited and decreased day by day, pollution problem due to use of fossil fuels and electrical demand are important role to encourage of using the green energy and renewable technologies. Among different renewable energy technologies, hydro power generation (large and small scale) is the prime choice in terms of contribution to the world's electricity generation by using water current turbines. Nowadays, researchers focus on design and development of different kind of turbines to capture hydro-power electricity generation as clean and reliable energy. This article is review about statues of water current turbines carried out to generate electricity from hydro-kinetic energy especially places that they do not have electricity, but they have access to the current water.

**Keywords :** water current turbine, renewable energy, hydro-power, mechanic

**Conference Title :** ICMEME 2014 : International Conference on Mechatronics, Electrical and Mechanical Engineering

**Conference Location :** Kuala Lumpur, Malaysia

**Conference Dates :** February 13-14, 2014