CLAIMS

l. A turbine for operation in a body of water for the generation of power, the turbine comprising:

(a) a housing having an inlet for receiving water and an outlet for allowing water to exit; and

(b) a power generation unit disposed in the housing and intermediate the inlet and outlet, the power generation unit comprising two propellers for rotation about an axis in response to water flow,

wherein the inlet comprises a flared outer end for channelling the water towards the power generation unit, and a truncated cone disposed within the flared outer end of the inlet, the flared portion of the truncated cone protrudes the inlet.

2. The turbine according to claim 1, wherein the inlet and truncated cone is Venturi-shaped.

3. The turbine according to any one of the preceding claims, wherein the inlet and truncated cone comprise guides for channelling the water to the blade assembly.

4. The turbine according to any one of the preceding claims, wherein the two propellers rotate about the axis in opposite directions.

5. The turbine according to any one of the preceding claims, wherein the outlet comprises an outer flared end.

6. The turbine according to any one of the preceding claims, wherein the housing further comprising an inlet for introducing air into the water before the water enters the power generation unit.

~~7. A turbine substantially as described herein, with a reference to the accompanying drawings.~~

~~8~~7. A method for generating electricity using a turbine according to any one of claims 1 to ~~6~~7.