

A HYDROPOWER RECYCLE SYSTEM

Abstract

A hydropower recycle system, relating to the technical field of hydroelectric power generation, includes a turbine device, a power generating device and a rooftop water tank (2).

5 The turbine device and the power generating device are provided at the top of the rooftop water tank (2). A water inlet (21) is provided at the top of the rooftop water tank (2). The turbine device includes a turbine housing (3), a turbine (5), a high-pressure nozzle (6) and a turbine rotating shaft (4). The turbine housing (3) is provided above the water inlet (21). A water outlet is provided at the bottom of the turbine housing (3). The turbine (5) is provided inside the

10 turbine housing (3). The turbine rotating shaft (4) passes through the turbine housing (3). A part of the turbine rotating shaft (4) located in the turbine housing (3) is connected to the turbine (5), and one end of the turbine rotating shaft (4) extending out of the turbine housing (3) is transmittingly connected to an input shaft of the power generating device. The high-pressure nozzle (6) is fixedly disposed on a sidewall of the turbine housing (3). The hydropower recycle

15 system has the advantages of small commitment resources, short installation and debugging time, and slight influence on the environment. The energy which is originally necessary to be used is recycled, the recycled energy is supplied to the buildings for use or is sold to the power grid, thereby providing green energy and reducing carbon emission.

20 (FIG. 1)