

ABSTRACT

There is provided a wind power generator capable of efficiently generating electric power by effectively utilizing the energy of wind even if the wind is weak and regardless of a wind direction, and easily increasing in size and in power with a simple structure. The wind power generator includes: a wind tunnel formed by a cylindrical member erected on a foundation in a vertical direction; a plurality of wind-collecting plates that extends from a circumferential wall of the cylindrical member in directions normal to the circumferential wall; a plurality of upper and lower guide plates provided between the wind-collecting plates; a plurality of wind inlets that introduces wind collected by the wind-collecting plates into the wind tunnel; back-flow preventing means that allow only the flow of wind blowing from the outside of the cylindrical member into the inside of the cylindrical member; a turbine that is driven by wind blowing out from one end of the wind tunnel, and power generator that is driven by the turbine.