

Compact wind power generator - an efficient and low-noise natural energy solution

Solar/wind hybrid street lights

Features

- The low rotational speed reduces the noise and makes the wind turbine perfect for use in urban areas. Applications include street lights, emergency lights and many other uses.
- The blades are in a shape specially designed to aeronautical engineering principles, and start operating even with a weak breeze.
- The wind turbine converts the power of wind from any direction to rotation and is suited to the wind conditions in Japan, where the wind direction frequently changes.

Overview (Technical principles, actions, etc.)

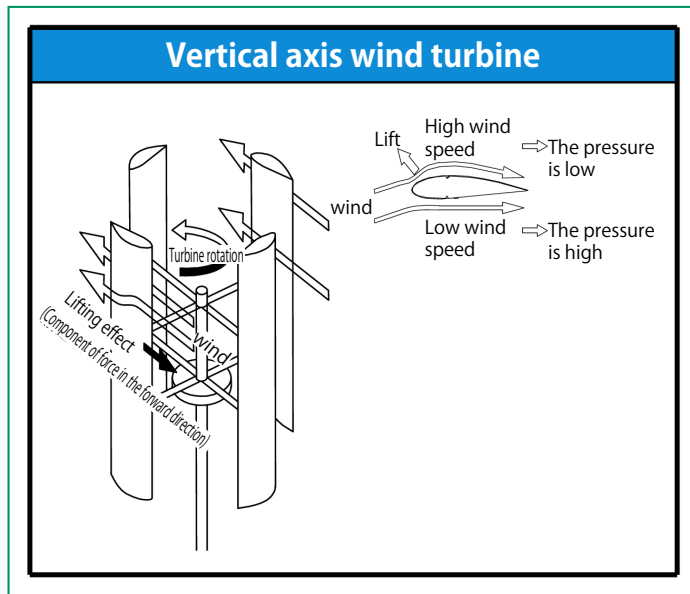
“Hybrid power generation system”

The power supply consists of a small generator, a solar panel module and a sealed battery. The wind/solar-generated power is stored in the sealed battery and the battery stably supplies the power to illuminate the light. The battery has a sufficient capacity for powering the light every day for up to approximately 4 days without being charged by the wind/solar power generator.

“Control system (controller)”

The system is designed to control the voltage using a controller; if the voltage reaches a pre-set level under strong wind conditions, the electric brake is automatically applied.

The electric brake can also be applied or released manually during maintenance.



Introductory Track Record

- Many generator systems are operating in public facilities, parks, schools, factories and commercial facilities.

Effects

- The wind power generator system consists of a small wind power generator and a solar panel module. The system constitutes a green night street light by incorporating an independent power source for illuminating the high intensity LED light.

Applicable field
For street lights in parks, factories and other facilities
As a means of environmental protection (CO₂ by companies, factories, mass restaurants, etc.)

Water	ENERGY	Waste disposal/ Recycling/ Resource saving
Energy saving/Energy recovery		New energy
Energy storage/Energy creation		Air
		Soil
		Other