

Compact power equipment utilizing unexplored hydraulic energy

Integrated Small Hydropower Equipment

Features

- A new energy system utilizing unexploited hydraulic energy to generate 20 to 315-kW of power.
- Compactly designed for installation in a small space. The size is less than half that of conventional inline propeller water turbines for small-scale hydropower generation.
- The hydroelectric generator incorporates a new environmentally-friendly, oil-free and low-noise/vibration mechanism.

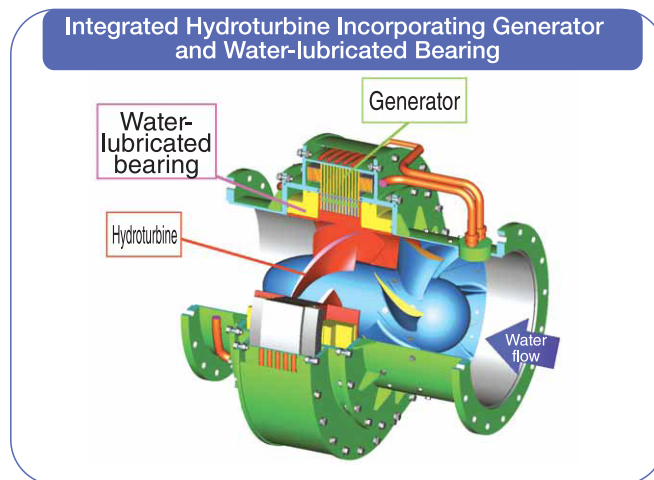
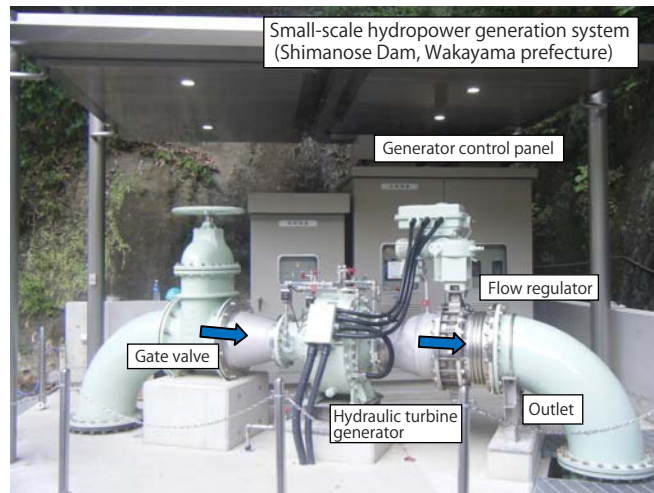
Overview

(Technical principles, actions, etc.)

Small-scale hydropower generation utilizes unexploited small-scale hydraulic energy to generate power without emitting CO₂.

Our system is integrated a water turbine and power generator to reduce the size to less than half that of conventional inline propeller water turbines for small-scale hydropower generation. The system employs oil-free, water-lubricated bearings to implement low-noise, environmentally-friendly and clean power generation.

The outputs of the models range from 20 to 315 kW.



Introductory Track Record

- As of October, 2015, 12 systems have been introduced in Japan. (7 systems utilizing dam/river maintenance discharge water, 5 systems utilizing water treatment facilities)

Applicable field
Small Hydropower Equipment

Water

Energy saving/Energy recovery

Energy storage/Energy creation

New energy

Waste disposal/ Recycling/ Resource saving

Air

Soil

Other

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※Note: This publication introduces examples of technologies and products believed useful towards solving environmental and energy issues. In no way does it constitute guarantees concerning their transfer or sale.