



# Nature

## Small-scale hydroelectric power systems

In Shemugan, a town of about 4,000 population in Bhutan (a kingdom located between India and Tibet), there exists a run-off-river hydroelectric plant that generates electric power from mountain streams. At the heart of this environmentally friendly power plant (for which no dams were built) are Kubota's cross-flow turbine generators, which are optimally suited to locations with low water volumes and only moderate drops in elevation.

Kubota's small-scale hydroelectric power generation system supplies the people of Bhutan, living in close proximity to nature, with clean electric power.

## "Ecolony" solar power generating roofing tiles

Reducing emissions of CO<sub>2</sub>, the primary factor in global warming, is an issue that directly affects all of us. With this in mind, solar power generating systems are an obvious solution in providing clean energy. The Kubota name has long been renowned in rooftop technology, particularly for our "Colonial" flat slate tiles and other innovative products. Our "Ecolony" solar power generating roofing tiles, which are integrated right into the roof itself, are the latest addition to our long lineup of hit products.

"Ecolony" tiles use amorphous silicon, which boasts outstanding heat characteristics, for longterm power generation surpassing that of conventional crystal-based technology. As a roofing material, these tiles feature a high level of heat resistance, are strongly resistant to shock and vibration, and are waterproof. At the same time, they offer a classy, sophisticated design and can be installed simply and easily.



Bhutan electrification project (mountain community aglow with electric lights)



"Ecolony" solar power generating roofing tiles



Tohoku Agricultural Administration Building in Fukushima Prefecture