

OPTIONS FOR RURAL ELECTRIFICATION

Grid Extension

Diesel Generators

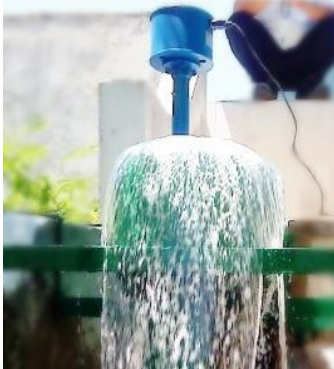
Solar PV

Hydro (Micro and Pico)

Wind

Hybrids(Multiple-sources combined)

PROJECTS INSTALLED



MATEC PICO HYDRO



VOITH FUJI
HYDRO POWER GENERATION

VOITH HYDRO



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ENERGY RESOURCE HYDRO

1 TYPE ACCORDING TO SIZE

- ✚ Large (over 50MW)
- ✚ Small (10MW to 50MW)
- ✚ Mini (100kW to 10MW)
- ✚ Micro (under 100kW)
- ✚ Pico (under 10kW)



2 TYPE ACCORDING TO DEVELOPMENT

- ✚ Run-of-River
- ✚ Pondage (Dam)
- ✚ Pumped-Storage



THE PICO HYDRO ADVANTAGE

- Relatively the cheapest source of electricity per kWh
- Requires lesser investment cost compared to micro hydro installations
- Faster to construct and install
- Easier to maintain and repair
- Can be locally manufactured

LOW HEAD APPLICATION

PEG200W

PEG500W

PEG1000W

TYPE	PHEG-200W	PHEG-500W	PHEG-1000W
Rate Power	200W	500W	1000W
Water Head	1.5 m	1.5 m	1.5 m
Water Flow	35 liters/sec.	70 Liters/sec.	130 Liters/sec.
Net Weight	25 kg	45 kg	75 kg
Generator Output	.220 VAC, 60 HZ single-phase permanent-magnet alternator.		



HIGH HEAD APPLICATION

PEG100W

PEG500W

- ✚ Low water flow rate
6.3ltrs/ sec Head: 6-13mtrs
- ✚ Easy to install
- ✚ Environment friendly
- ✚ Inexpensive
- ✚ Portable



SITE SELECTION

