Vertical hydro turbine

Vertical hydro turbine

With a double regulation system, Kaplan turbines provide high efficiency over a broad range of configurations

The vertical configuration of the Kaplan turbine allows for larger runner diameters (above 10 m) and increased unit power, as compared to Bulb Turbines.

Our Kaplan turbines also keep the environment in mind. Engineered with a "fish-friendly" structure, to improve the survival rate of migrating species, and water-lubricated bearings and water-filled hubs to prevent water pollution.

Our Kaplan turbines are constructed with oil-free hubs where the oil traditionally filling the hub has been replaced by water and all brushes are made of self-lubricating material. This eliminates the risk of oil leakage in the water.

Power dams can impede migratory fish movements, with downstream migrating fish being exposed to physical stress or injury. We have performed extensive studies to develop strict turbine criteria to dramatically decrease the impact on migrating fish.

70% power adjustment range with high efficiency

Smaller reservoirs which reduce environmental footprint

Want to get the most out of your hydropower assets? Reach out to GE Vernova"s team to start the conversation.

Brillant (Canada)20061 x 120 MWHead: 30 m

Grand M?re (Canada)20043 x 77 MWHead: 24 m

Qing Shan Dian (China)19982 x 20 MWHead: 29 m

Terminus Dam (USA)19951 x 17 MWHead: 52 m

Contact us for free full report

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