TECHNOLOGY INFORMATION SHEET

Operating range and performance for Venturi Enhanced Turbine Technology (VETT)

TECHNOLOGY PURPOSE

Providing an alternative to archaic low-head hydropower turbines that are typically very large, slow rotating and too expensive for those projects. The patented VETT technology makes use of the venturi principle achieving a pressure amplification for conventional turbines, allowing the use of much smaller and faster turbines and thereby achieving a project cost reduction.

The technology is verified by England's Environment Agency as fish-safe with zero mortality risk, no noise emission and very little visual intrusion, allowing it to address problems that others can't.

TURBINE DIMENSION AND SPEED

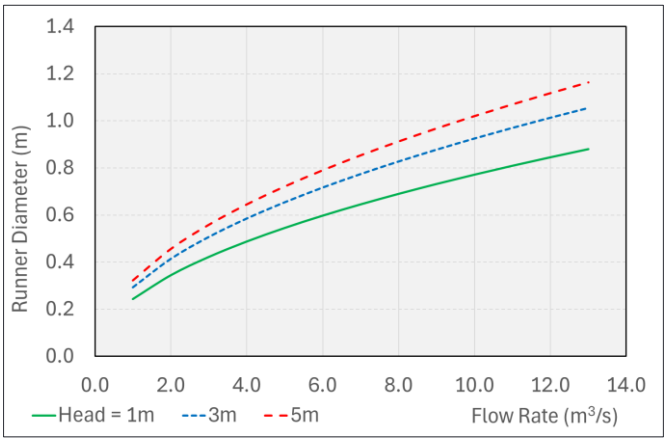

Figure 1: Turbine runner diameter in relation to head and flow

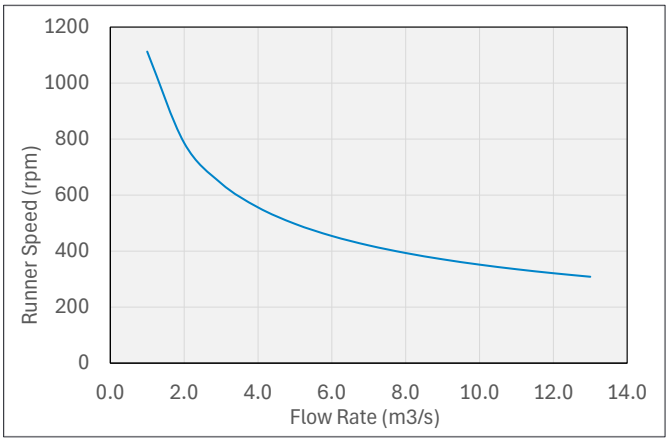

Figure 2: Turbine speed in relation to flow

OPERATING RANGE

VETT System	Flow range (per unit)	Head range
Standard VETT	2 -13 m^3/s	1 – 5m
VETT-in-a-Box	0.5 – 2.7 m^3/s	

VETT was developed to reduce costs per kW and provide shorter payback times for low-head hydropower projects. It is a cost-focussed approached for economically challenging locations.

For detailed assessments on annual energy output please get in touch and provide us with flow and head duration data (if available).

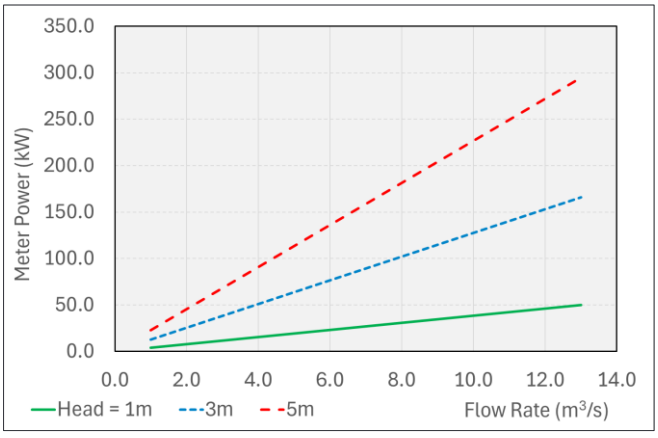

Figure 3: Power output with head and flow