

Hydrovolts Canal Turbine

Key Benefits

- Continuous clean energy
- Fast install and removal
- Modular for rapid scaling to site
- Debris resistant

Product Specifications:

Two sizes in product line:
C-2 (medium) and C-3 (large)
Target Site:
Artificial open water channels

Suggested Configurations:

- Singly
- Stack horizontally across canal width
- Chained tandem along length of canal

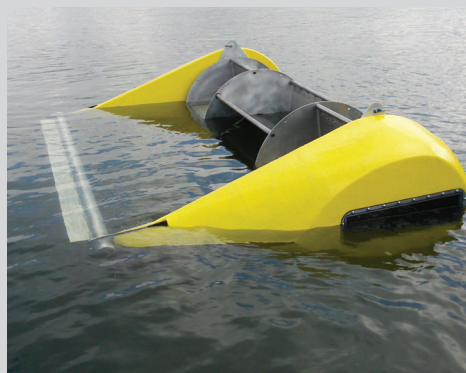
Usage Characteristics:

- Power local load or feed back to grid
- Installation time: ~ 1 day
- Lifetime: 15 years

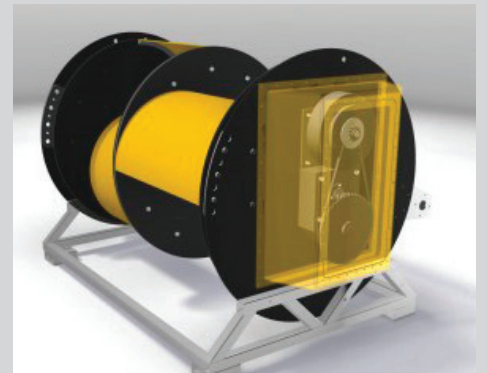
	Output Range	Turbine Dimensions	Min Waterway Dimensions	Sample Sites
C-2 (Medium)	1.5-12 kW	<ul style="list-style-type: none"> ■ 5 ft tall ■ 12 ft wide ■ Up to 3 rotors (5' wide each) 	<ul style="list-style-type: none"> ■ 6 ft deep ■ 13 ft wide ■ 1 m/s; 3 knots; 5 fps 	<ul style="list-style-type: none"> ■ Irrigation canals; Aqueducts, water discharge canals
C-3 (Large)	5-20 kW	<ul style="list-style-type: none"> ■ 8 ft tall ■ 25 ft wide ■ Up to 5 rotors (5' wide each) 	<ul style="list-style-type: none"> ■ 10 ft deep ■ 15 ft wide ■ 1.5 m/s; 3 knots; 5 fps 	<ul style="list-style-type: none"> ■ Large canals; Tailraces of hydropower dams



Dry install test run of the C-3 turbine in the Federal Bureau of Reclamation's Roza Canal



Test install of the C-2

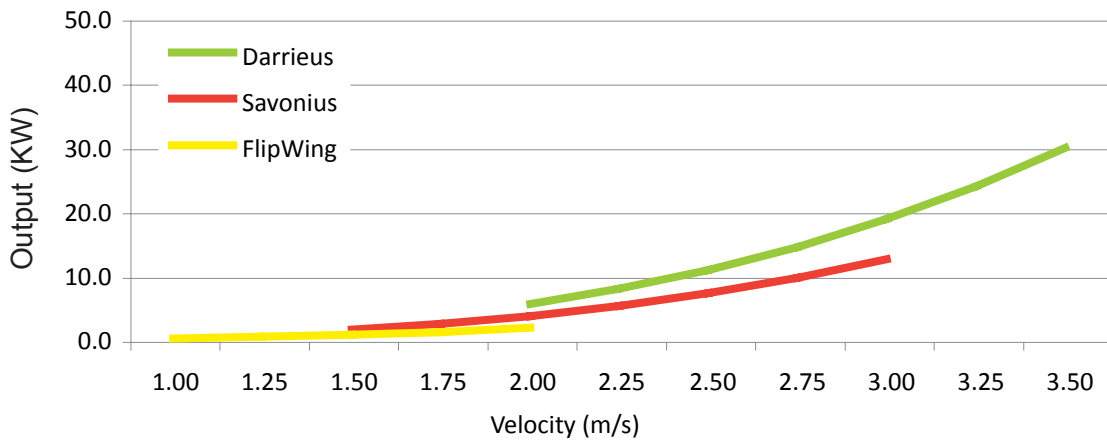


Drawing of the gear box for the C-2 and C-3 turbines

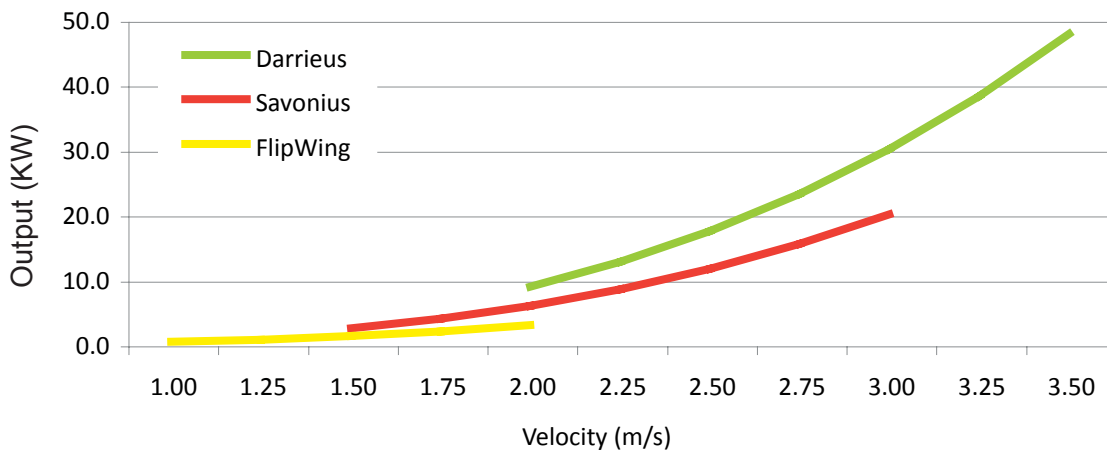
Output

- kW generated determined by velocity; exact output depends on site dimensions
- Interconnected using standard equipment typical for small scale renewable projects
- Voltage output adjustable up to 480V

C-2 Turbine kW Generation with Different Rotors



C-3 Turbine kW Generation with Different Rotors



Recognition

- Clean Tech Open national finalist
- Imagine H2O "Water-Energy Nexus" Winner
- LAUNCH: Energy Global Innovator

Contact us for more information



Hydrovolts.com ■ 206.658.4380 ■ info@hydrovolts.com ■ Seattle WA