

MILLINOCKET, MAINE

MODULAR RIVGEN®

TEST PROJECT

Ocean Renewable Power Company (ORPC), a developer of tidal and river power systems that generate electricity from free flowing tidal and river currents without dams, has partnered with Our Katahdin to test the new Modular RivGen power system in Millinocket, Maine.



The Modular RivGen devices utilize ORPC's proven cross-flow turbine technology.

The Modular RivGen system is designed for integration into existing infrastructure including hydroelectric facilities, irrigation canals and bridges, piers, breakwaters and flood controls systems.



U.S. DEPARTMENT OF
ENERGY

OUR
KATAHDIN



Modular RivGen Test Site

Development of the Modular RivGen system has been funded by the U.S. Department of Energy and utilizes ORPC's proven turbine generator unit technology.

ORPC is headquartered in Portland, Maine, with an engineering lab in Brunswick, and a test site in Eastport, Maine. International subsidiaries are located in Montreal (ORPC Canada), Dublin (ORPC Ireland) and Punta Arenas (ORPC Chile).

ORPC has the longest operating hydrokinetic project in all of the Americas, with its commercialized RivGen device deployed in the Kvichak River and providing power to the remote village of Igiugig, Alaska.

PROJECT PLANNING

ORPC will test two Modular RivGen devices within Millinocket Stream at a site located at the former Great Northern Paper Company mill. The devices will connect horizontally, just downstream of the mill walking bridge and below the Penobscot Mills powerhouse.



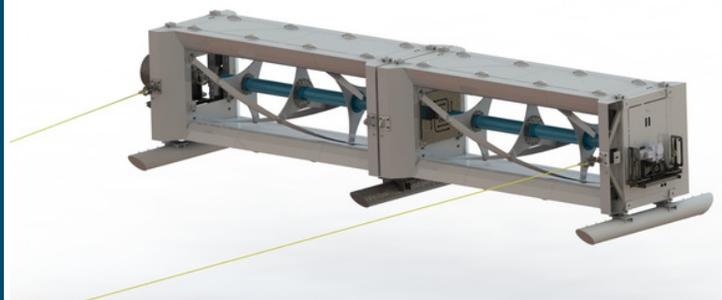
Millinocket Fabrication and Machine has been contracted to fabricate the Modular RivGen components. The devices will arrive to the site pre-assembled, placed into the stream via the use of a crane, and held in place via a mooring system consisting of one anchor point. A temporary shore station will be placed on the east side of the stream to house controls and monitoring equipment.

The Modular RivGen devices will be installed for testing from September 2022 to April 2023.

Reach ORPC at info@orpc.co.

RECREATION & SAFETY

Recreational use may occur around the Modular RivGen devices which will be approximately 1.5 feet under the water surface. The devices' corners will be marked by four buoys. One additional buoy will be used to mark location of an upstream anchor.



Proposed Modular RivGen Configuration

The width of the two devices when connected will be about 51 feet; this particular area of Millinocket Stream is approximately 100 ft wide. Paddlers will be able to paddle around the device set up. Fishermen can fish around the device but are not advised to cast within the marked device area.

Safety signage will be posted on both sides of the mill walking bridge and at Kermit Crandall Park by the boat launch.