



# Grenada rivgen power system

ORPC Inc.'s (ORPC) first river energy project, RivGen<sup>®</sup> Power System, has been operational in the village of Igiugig, Alaska, since October 2019. It has weathered two challenging Alaskan winters -- -40<sup>°</sup>C temperatures, a frazil ice event, and the breakup of roughly 2 feet of ice on Lake Iliamna which drifted over the top of the RivGen<sup>®</sup>.

ORPC's RivGen<sup>®</sup> Power System Delivers Power to Remote Alaskan Village Grid Affordable, Clean Energy for Islanded Communities Now a Reality Portland, Maine, July 30, 2015 - ORPC is pleased to announce that its 2015 RivGen<sup>®</sup> Power System Demonstration Project in the Kvichak River at the remote river village of Igiugig, Alaska,

The Modular RivGen system can be stacked vertically or placed side-by-side to integrate into existing or new works, including infrastructure modernization and EV charging stations. "ORPC welcomes the opportunity to partner with Shell to demonstrate the Modular RivGen System in the Lower Mississippi River region," ORPC CEO Stuart Davies said.

hydrokinetic power test site to a commercial microgrid, which has included multiple deployments of ORPC's RivGen<sup>®</sup> device and power system, incorporating lessons learned through each ...

The RivGen device will generate clean, predictable, renewable power from the Kvichak River, and send it to the remote community's microgrid, offsetting its diesel fuel use by 50%. In June, ORPC started the RivGen device set up on the ground in Igiugig Village, Alaska.

Develop & demonstrate the RivGen 3.0 power system, a modular system of turbine generator units (TGUs). The system is optimized for lower flows and for installation as standalone units or as integrated vertical or horizontal arrays. System demonstration will include the installation of a single TGU unit as well

The Modular RivGen device uses the cross-flow turbine technology of ORPC's commercially-available RivGen Power System, optimized for lower velocity sites and reduced cost. The product is being developed at ORPC's river test site in Millinocket, Maine, with financial assistance from the Department of Energy's Water Power Technologies Office.

One company, Ocean Renewable Power Company (ORPC), has developed the RivGen Power System to harness run-of-river current power. The RivGen is integrated as part of a microgrid solution where the RivGen unit produces continuous baseload energy (40-80 kW) to a community. Excess or unused electricity is stored in an energy storage system, such as ...

ORPC's RivGen<sup>®</sup> Power System was designed to facilitate installation and retrieval using local



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equipment, resources and personnel. The turbine generator unit (TGU) is connected to an innovative pontoon support structure which is submerged and raised to the river surface using ballasting. This process eliminates the need for significant marine ...

ORPC Canada has launched its first hydrokinetic power system in Canada, the RivGen® Power System, to generate emission-free electricity from free-flowing rivers and tidal currents. Installed in partnership with the...

ORPC's Modular RivGen® Power System harnesses energy generated from river currents to provide renewable electricity to existing infrastructure. Designed for lower-velocity sites, the Modular RivGen Power System can be adapted to ...

Igiugig Village Council (IVC) will install two 35-kilowatt (kW) marine renewable energy devices in the Kvichak River at Igiugig, Alaska, and acquire smart microgrid electronics and energy ...

ORPC's RivGen Power System is a 25-kilowatt system designed to reduce and stabilize the cost of power in remote communities located near rivers and tidal estuaries that currently use diesel fuel for power generation.

ORPC reports that its RivGen device has been in operation for 10 months, sending power to the Igiugig, Alaska, community grid. ORPC recently concluded summer inspection and maintenance of the device, re-deployed it and resumed.

The Modular RivGen device utilizes the same patented cross-flow turbine technology to harness river currents as ORPC's commercial RivGen® Power System and is designed to power existing ...

Canadian hydrokinetic test center to deploy ORPC's RivGen power system. Offshore Energy | May 24, 2022. Canadian Hydrokinetic Technology Testing Centre (CHTTC) and ORPC ...

RivGen Power System & Integrated Microgrid Solutions; Products in Development. Tidgen Power System; Modular Rivgen Power System; Advantages; Resources. Case Study; Site Assessment; Strategic Advisory ...

ORPC, Inc., and the Matanuska-Susitna Borough are to test ORPC's RivGen Power System's potential to power cathodic protection systems which safeguard underwater assets at the Upper Cook Inlet industrial and commercial port facility of Port MacKenzie. The RivGen System, which harnesses energy from free-flowing tidal and river currents, is ...

Canadian hydrokinetic test center to deploy ORPC's RivGen power system. Offshore Energy | May 24, 2022. Canadian Hydrokinetic Technology Testing Centre (CHTTC) and ORPC Canada have joined forces to deploy a RivGen renewable power system for the first time in the Canadian market. Read More. MRC in the News; News Releases; News & Blog; Videos



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ORPC is advancing commercial development of three proprietary power systems (TidGen™, RivGen™; and OCGen™), which all use our patented, core device, the turbine generator unit or TGU. In 2012, ORPC delivered the first power to the grid from our federally-licensed Cobscook Bay Tidal Energy Project utilizing our TidGen™; Power System, designed ...

Working in close partnership with the host indigenous community of Igiugig, ORPC has installed an energy storage system and smart grid controls, and with the addition of a second RivGen device in summer 2022, the fully operational RivGen power system will provide baseload power for the local microgrid and reduce the community's diesel use by ...

In January 2023, ORPC deployed its new Modular RivGen™; hydrokinetic power system in Maine's Millinocket Stream, followed by a second device in May 2023. These devices were deployed at One North, a renewable energy hub and industrial park located at a former paper mill site and managed by local nonprofit Our Katahdin. The underwater, next-generation ...

o The RivGen Power System has had no adverse impact on marine life. Years of environmental monitoring over multiple projects and independent analysis of data collected have yielded no observed fish mortalities. About ORPC Canada Founded in 2015 and based in Montreal, ORPC Canada is responsible for developing a North American ...

For example, when fully commercialized, the use of a single RivGen™; Power Systems to replace electricity generated using diesel fuel would result in the annual production of 190,000 kWh of electricity (utilizing resource data from Kvichak River at Igiugig, AK), and the yearly avoidance of 315,000 pounds (157.5 tons) of CO2 emissions per year. ...



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