



Rivgen power system New Caledonia

This year will mark the fourth year that ORPC's RivGen Power System has been in operation in Igiugig, having withstood three Alaskan winters with temperatures as low as negative 40 degrees Celsius. ORPC's RivGen Power System exemplifies our sustainable energy solution for remote communities worldwide.

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 ...

RivGen Power System & Integrated Microgrid Solutions; Products in Development. Tidgen Power System; Modular Rivgen Power System; Advantages; Resources. Case Study; Site Assessment; Strategic Advisory Services; Safety; Environmental Leadership. Environmental Monitoring; Working with Regulators; Scientific & Regulatory Resources;

ORPC Inc.'s (ORPC) first river energy project, RivGen Power System, has been operational in the village of Igiugig, Alaska, since October 2019. It has weathered two challenging Alaskan winters -- -40°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;

ORPC, con sede en Estados Unidos, se dedica al desarrollo de sistemas marinos de generación de energía. La empresa es más conocida por su RivGen Power System, construido en 2014 e instalado en el pueblo de Igiugig, Alaska. Su equipo de expertos busca constantemente nuevas ideas para mejorar las tecnologías existentes.

ORPC RivGen Power System Longest Operating Current Energy Converter in U.S. October 9, 2020 ORPC has concluded summer inspection and maintenance of its RivGen device, re-deployed it and resumed operations sending power to the Igiugig, . . .

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

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 storage to provide autonomous operation of the microgrid, which will power all Village facilities using the river's current, displacing the high cost of diesel-generated power.



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Progress 09/01/13 to 04/30/14 Outputs Target Audience: The target audience for the optimized RivGen Power System is rural communities that rely on local power distribution grids connected to diesel generators and are situated near hydrokinetic resources, such as rivers. This target audience is exemplified by the Alaskan Village of Igiugig, which has a year-round population of ...

RivGen Power System the longest operating current energy converter in the U.S. During this initial period of operation, the RivGen device survived a mid-winter frazil ice ... create hundreds of thousands of new manufacturing, engineering, and marine industry jobs," said . PAGE 2 OF 2 ORPC CEO Stuart Davies. "The last ten years were the ...

Susy Kist MANAGER - MARKETING & COMMUNICATIONS 120 Exchange St., Suite 508 Portland, ME 04101 DIRECT 207 221 6249 CELL 207 272 8615 OFFICE 207 772 7707 skist@orpc Continued ORPC's RivGen® Power System Demonstration Project a Major Success Affordable, Locally Produced, Clean Energy for

"ORPC hydrokinetic power systems ... play an important role in transitioning off-grid communities to predictable forms of renewable energy. This baseload electricity will play a strategic role in local microgrids in addition to ...

RivGen® Power System ORPC, Inc. is in the business of improving people's lives and their environment through sustainable energy solutions. ORPC is one of just a few companies in the world to have built, operated and delivered power to shore from both a hydrokinetic tidal and river project. ORPC was the first marine

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. ORPC is headquartered in Portland, Maine, with an engineering lab in

Pictured here ORPC RivGen® device prior to installation, Igiugig, Alaska 2021 - Image Courtesy ORPC > ORPC's advanced RivGen Power System harnesses energy from free-flowing rivers and tidal currents without dams or impoundments. After proving itself over three winters in real world, harsh Alaska conditions, the Igiugig-RivGen Project is 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 ...

As of 2021, this fully submerged 35-kilowatt river energy device, called the RivGen Power System, is the longest operating current energy converter in the United States and can provide nearly half of the village's ...



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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. ... Delegate General to New England on behalf of the Maine International Trade Center (2021), and the ...

"ORPC hydrokinetic power systems ... play an important role in transitioning off-grid communities to predictable forms of renewable energy. This baseload electricity will play a strategic role in local microgrids in addition to intermittent energy sources such as wind and solar.

(From Mainebiz) Ocean Renewable Power Company (ORPC) develops renewable power systems that convert a river's kinetic energy into electricity. ORPC has a number of goals for 2023, including introducing new products to the market and deploying a Modular RivGen Power System in Millinocket.

The RivGen Power System Commercialization Project was partially funded by the Denali Commission and Alaska Energy Authority. ... In 2012, ORPC made history by delivering power to the New England grid from the company's TidGen Power System installed in Cobscook Bay, Maine. The Cobscook Bay project was the first commercial, grid-connected ...

RivGen Power System Celebration in July 2019. Photo from Austin McDaniel, Ofce of Alaska Governor Mike Dunleavy . Igiugig's Journey Toward Sustainability New Homes at ENERGY STAR; 4-5 Rating . Summer/Fall. 2009 . November. 2019 . Planning Site Assessments RivGen/Microgrid Energy Efficiency . 2000-Today Expanded

RivGen Power System Celebration in July 2019. Photo from Austin McDaniel, Ofce of Alaska Governor Mike Dunleavy . Igiugig's Journey Toward Sustainability While the ownership structures and performance of the new RivGen device and battery energy storage system are evaluated, the community is focusing on other initiatives. One priority is

"With the right support over the next five to ten years, MHK technology can rapidly grow to meet our renewable energy objectives providing power to over 100 million people and, in the process, create hundreds of thousands of new manufacturing, engineering, and marine industry jobs," said ORPC CEO Stuart Davies.

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 ...

ORPC's advanced RivGen Power System harnesses energy from free-flowing rivers and tidal currents without dams or impoundments. After proving itself over three winters in real world, harsh Alaska ... New England on behalf of the Maine International Trade Center, and Association des Firmes de Génie-Conseil Québec's International Project ...



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ORPC's RivGen® 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® Power System Demonstration Project in the Kvichak River at the remote river village of Igiugig, Alaska,

The groundbreaking Igiugig Hydrokinetic Project, supported by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy Water Power Technologies Office (WPTO), is a collaboration between Igiugig Village and Ocean Renewable Power Corporation (ORPC), which deployed its RivGen® Power System, a submerged cross ...

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