

<b>Donor country</b> Canada			
<b>Project/programme title</b> Marine Energy: Optimization of Next Generation Commercial Kinetic Hydropower System			
<b>Purpose</b> To develop an optimal electricity generation and interconnection subsystem for next-generation commercial kinetic hydropower systems			
<b>Recipient country</b> USA, Canada	<b>Sector</b> Energy (Marine)	<b>Total funding</b> \$460,000 (GoC contribution), \$274,800 (CDN partners leveraging)	<b>Years in operation</b> 2009-2011
<b>Description</b> <p>Under the Security and Prosperity Partnership, Canada and the United States of America are collaborating on research aimed to advancing marine renewable energy technology and their applications. Natural Resources Canada is supporting a partnership between Verdant Power Canada (VPC) and the University of New Brunswick that undertakes a critical examination and development of the electricity generation and interconnection subsystem to VPC's next-generation kinetic hydropower system (KHPS).</p> <p>This project aligns with Verdant Power's project to optimize the design of their KHPS in collaboration with the National Renewable Energy Laboratory, Sandia National Laboratory, and the U.S. Department of Energy. The KHPS is designed to generate clean, renewable energy from the currents of rivers and tides without the use of dams.</p>			
<b>Indicate factors that led to project's success</b> This project is ongoing.			
<b>Technology transferred</b> Kinetic Hydropower Systems and components Electricity generation and interconnection subsystems			
<b>Impact on greenhouse gas emissions/sinks</b>			