

BC HYDRO'S SUSTAINABLE COMMUNITIES RESEARCH COLLABORATIVE

Due to the growing demand for sustainable communities and the corresponding need for new curriculum development, new areas of research, and experienced graduates, BC Hydro has designed a **Sustainable Communities Research Collaborative ("SCRC")** Program which will act as a catalyst for addressing a number of these needs in the province.

The benefits would include providing students with a corporate supervisor at BC Hydro and the opportunity to do their Master's level project/thesis on real world projects with applied research in one of the following areas:

- District Energy (DE) Utility Governance Models in Canada
- Energy and Local Government Decision Making
- Integration of Aboriginal Practices in Building Sustainable Communities
- Community Energy Planning (CEP)

The corporate supervisor's role is to assist the student by reviewing the student's research findings, draft reports, and other project information. The corporate supervisor will also assist the student in identifying other

organizations that may be interested in assisting the student with their project research.

We hope the SCRC program and relationship between organizations and students will also add value in driving research and capacity-building in emerging field of sustainable communities.

B.C. COMMUNITIES MOVE TO SUSTAINABILITY

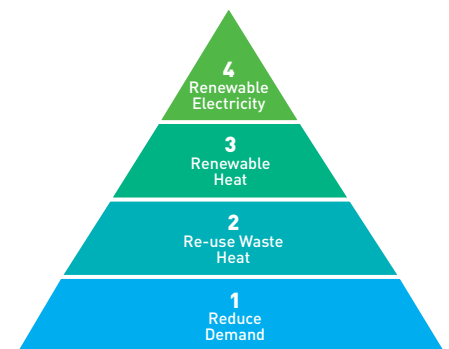
Communities across B.C. are partnering with BC Hydro to increase efficiency, cut costs, manage greenhouse gas emissions and utilize local energy.

Meeting climate change, rising energy costs, increasing energy demands of growing communities and aging infrastructure are putting pressures on local budgets and options. Sustainable energy management is a critical element in planning for a community's future.

The Power Smart Sustainable Communities Program helps local governments meet the challenge by providing expertise, education, program support and financial incentives. Our

role is to support and encourage B.C. communities to make a fundamental shift in the way they plan for and use energy to ensure we meet the energy supply needs and reduce environmental impacts by creating and implementing an integrated, community-wide energy strategy.

The principles of Sustainable Community Planning are:



The Four R's of Sustainable Community Energy

To take a look at some of the projects in various stages of development across the province, click on http://www.bchydro.com/powersmart/ps_communities.html or try out our [interactive map](#).



BC HYDRO CORPORATE SUPERVISORS



Victoria Smith, M.A.

Manager, Aboriginal & Sustainable Communities—Customer Care

Victoria Smith is the Manager, Aboriginal & Sustainable Communities sector at BC Hydro. This newly created group is focused on delivering value for communities in British Columbia through support with community energy planning, conservation programs and renewable energy innovation projects. With over 15 years of both private and public sector experience in the energy efficiency industry, Victoria has worked extensively in consultation with all levels of government stakeholders including; Natural Resources Canada, Federation of Canadian Municipalities (FCM), BC Green Buildings program, Provincial Ministries and B.C. Municipal and Regional Governments.

In 2006 Victoria completed her Master's thesis work on the Whistler 2020 Sustainability Plan and through the International Centre for Sustainable Cities spent 6 months in Dar es Salaam, Tanzania helping to build capacity in urban sustainability planning with local government. Victoria holds a Master's of Environmental Education and Communication degree from Royal Roads University.



Joanne McKenna

Senior Manager, Distributed Generation Strategy

Joanne's background is in Political Science from Dalhousie University with a Masters in Planning from the University of Toronto. She has 20 years of experience with the public and private sector. She joined BC Hydro ten years ago and currently works in Customer Care & Conservation where she has developed BC Hydro's Distributed Generation strategy and is in the process of testing this through a series of pilot opportunities with our customers targeting both demand and supply-side solutions.

Joanne has extensive experience in stakeholder engagement through her previous role as Manager of the IPP Engagement team within Power Acquisitions. She uses this experience to bring together diverse perspectives from both within and outside BC Hydro to ensure that those affected by our business, including IPPs, First Nations and stakeholders, are informed about BC Hydro's activities.

Prior to her work in Power Acquisitions, Joanne was a Senior Policy Coordinator with the Green Energy Division promoting the research and development of alternative and green energy technologies. Joanne also co-managed the 20MW demonstration (wind, wave and small and micro hydro) on Vancouver Island.

Prior to her joining BC Hydro, Joanne worked for the Ontario Government in the Ministry of the Environment's Environmental Assessment and Approvals Branch. There she led a number of key provincial initiatives including the Electricity Restructuring Initiative looking at its implications on the environment and the development of a draft Bilateral Agreement on EA Harmonization between Ontario and the Federal Government. Joanne also spent a couple of years working in the private sector in Toronto and Halifax.



Jorge Marques, PEng MBA
Manager, Technology Innovation

Jorge Marques has over 18 years experience in energy efficiency and demand side management. He graduated from UBC in 1992 with a degree in Mechanical Engineering, and added an MBA in Executive Management and Leadership from Royal Roads in 2008. He spent five years as a consultant to electric and gas utilities on designing and delivering demand side management programs, as well as conducting energy audits for a variety of industrial clients. In 1997, Jorge took on the role of Energy Manager with UBC, one of the first energy professionals in the province to be solely focused on managing energy use and delivering energy conservation projects. At the end of his 10 years at UBC, Jorge had delivered over 30 GWh/yr in electricity savings. His work at UBC included wholesale retrofits of lighting across the campus, as well as ECOTrek, the country's largest comprehensive energy and water retrofit project, which won the National First Prize in the Canadian Association of University Business Officers' 2008 Quality and Productivity Awards. Jorge was nominated for the 2007 World Clean Energy Awards by the World Watch Institute, and UBC was awarded the 2007 Power Smart Award for Excellence in Energy Management, as well as a 2007 Energy Efficiency Award from Natural Resources Canada.

Beyond energy efficiency and conservation, Jorge has an interest in fostering sustainability through innovation and applying systems thinking to planning and strategy development.



Robyn Wark, MRM MCIP
Senior Key Account Manager, Sustainable Communities Sector

Robyn Wark is a Senior Key Account Manager with BC Hydro and a professional community planner. Over the past 14 years, Robyn has been a leader in sustainable community design, as a consultant, educator, and within local government and BC Hydro. Her project work has been recognized by the Federation of Canadian Municipalities, the Canadian Institute of Planners, and the Planning Institute of British Columbia. Throughout her career, Robyn has taught professional and university-level courses in environmental planning, urban design, First Nations resource planning, and public engagement.

Robyn has co-instructed at Royal Roads University since 1999, and taught at BCIT from 1990-2005. She sat on the Advisory Board of BCIT Forest Ecosystem Technology program from 2000-2006. Robyn is passionate about building knowledge and skills around sustainable community design, infrastructure and public engagement. Over the last decade Robyn has mentored numerous young planners and advised on academic committees for UBC and BCIT students. Robyn holds a Masters degree in Resource and Environmental Management and a Certificate in Urban Design from Simon Fraser University.



Monica Karpiak
Key Account Manager, Aboriginal Sector

Monica holds a Master of Arts in Archaeology from Simon Fraser University. Her academic specialization is Landscape Archaeology with a focus on Northwest Coast cultures. She was drawn to Landscape Archaeology because it provides archaeologists with a means to predict the location of archaeological resources and it offers insight into historical land use and tenure of First Nation communities. This area of study integrates various lines of evidence to achieve this understanding.

Following several years as an archaeological consultant, Monica applied her knowledge to resolution of the land question in British Columbia by joining the Federal Treaty Negotiation Office. Monica participated in negotiations that culminated in the recently signed Maa-nulth Final Agreement, a settlement achieved between five Nuu-chah-nulth First Nations and the federal and provincial governments. She has also worked on consultations and negotiations and in policy development relating to Aboriginal relations for Parks Canada and BC Hydro.

Last year, Monica completed the Graduate Diploma in Business Administration at Simon Fraser University's Segal School of Business. Her studies have assisted her in adapting to her current role as a Key Account Manager (KAM) at BC Hydro. As a KAM, Monica is responsible for building mutually-beneficial relationships with several First Nation communities and Aboriginal not-for-profit organizations. She brings to the role a strong commitment to provide support and tools that will help these customers enhance the sustainability of their communities.



Dina Matterson

Senior Key Account Manager, Distributed Generation

Dina Matterson is a Senior Key Account Manager working on BC Hydro's Distributed Generation strategy, specifically helping to identify customer generation opportunities and support customers as the strategy evolves. Prior to her work on the Distributed Generation strategy, Dina was a Senior Program Manager with Power Smart Community Marketing, responsible for developing elements of the Power Smart Sustainable Communities program. Prior to that, Dina was a Senior Key Account Manager working with the largest municipalities in the BC Hydro service territory on energy efficiency and sustainable community initiatives. Finally, prior to her work with BC Hydro, Dina held marketing management roles in the high tech industry.

Dina has a Bachelor of Arts degree in psychology from UBC, where she worked on a graduate-level project in forensic psychology. She also holds a Diploma of Technology in Business Administration from BCIT, and took on advisory and tutorial roles at that institution. Finally, Dina has a Master of Business Administration in Digital Technologies Management from Royal Roads University, and her organizational project focused on business strategy for Creo Inc. (now Kodak Graphic Communications Group). Dina's research interests include financing or making the business case for energy efficiency and alternative energy projects; strategic management, including organizational structure and development, including ownership and governance models; change management; and marketing management.

If you are interested in learning more about BC Hydro's Sustainable Communities Research Collaborative, please contact Victoria Smith at victoria.smith@bchydro.com

