

BC FIRST NATIONS ENERGY AND MINING COUNCIL

Co-hosted by Clean Energy B.C.
In conjunction with GENERATE 2011

From Application to Electrons: Overcoming Challenges
First Nation Short Course: Sunday, September 25th
Workbook for DELEGATES



AGENDA

TIME	TOPIC	SPEAKER
Dan George, Facilitator		
10:00 – 10:45	The Clean Energy Evolution Opportunities and Challenges for First Nations	Dave Porter , CEO FNEMC Chief Ralph Dick , We Wai Kai First Nation Judith Sayers , Sayers Strategic Advice
Pre-Feasibility Panel		
10:45 – 11:15	Overview of Energy Resources Engaging Communities and the Importance of Community Champions	Paul Kariya , Executive Director, Clean Energy BC Chief Otis Jasper , Soowahlie First Nation and President of the Tselqweyexw Tribe
11:15 – 12:00	Shared Territory /Nation to Nation Agreements	Chief Don Harris , Xa'xtsa Nation Chief Willie Charlie , Sts'ailes Kekinusuqs/Judith Sayers
12:00 – 1:00	LUNCH BREAK	
Design, Bid, Build Panel		
1:00 – 1:30	Project Review and Permits	Heather MacKnight , Regional Executive Director, Ministry of Natural Resource Operation (MNRO) Adam Lewis , President, Fisheries Biologist, EcoFish Colleen Giroux-Schmidt , Director, Regulatory Affairs, Innergex
1:30 – 2:00	Selling Electricity	Jim Scouras and Linda Sahota , Energy Planning, Procurement and Risk, BC Hydro
2:00 – 2:30	Project Budgeting Private, Public Partnerships (P3)	Glenn McDonnell , PEng, Engineering Manager, Sigma Engineering Ltd Karl Carisse , Senior Director, Innovation and Major Policy Transformation, AANDC
2:30 – 2:45	BREAK	
Own and Operate		
2:45 – 3:30	Construction Agreements Management and Operations	Chief Garry Feschuk Shishálh Nation Jamie Bassett , Economic Development, Canoe Creek Hydro Company Sayo Masso , Tla-o-qui-aht First Nation Councillor and Board Member Canoe Creek Hydro Company
3:30 – 4:00	Summary/Wrap-up	Dan George , Facilitator
4:00	CLOSE	

CONFERENCE OVERVIEW

BC First Nation communities and developers alike continue to embrace opportunities in clean energy development as a pathway to community energy self-sufficiency and economic prosperity.

The focus of this short course is to walk through the process of developing a clean energy project with a First Nation ownership or partnership component. Several BC First Nations have been involved in key aspects of energy projects affecting their territories and we often hear of success stories particularly with respect to elements of corporate-First Nation partnership arrangements and financing.

This short course will examine all phases of project development and focus on successfully overcoming challenges in this sector. The course will provide insights and advice on how to overcome common challenges of turning an idea into a reality. The course will cover hot button topics such as how to get your community involved and engaged, the selection of a community champion, engaging other First Nations with common or neighbouring territory, permitting issues, project budgeting, identification of energy resource, working with BC Hydro, and ultimately the construction and operations stage.

From Application to Electrons – Successfully Overcoming Challenges is an interactive course that brings together a range of expert speakers to discuss the role that First Nation communities and developers play in responding to their respective objectives.

We encourage the exchange of ideas, knowledge, and diverse perspectives on the critical matters that are important to project success.

Dan George, President/CEO
Four Directions Management Services Ltd.



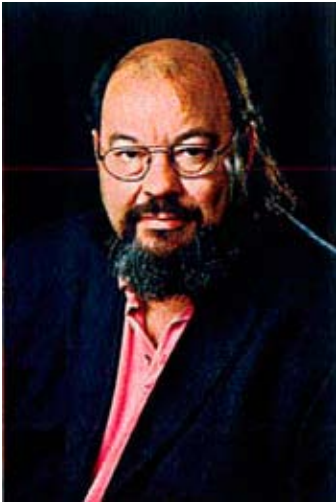
Dan George is the President/CEO of Four Directions Management Services Ltd. (1993), a wholly owned Aboriginal economic, social and community development organization dedicated to responding to the expressed needs of individuals, organizations, communities and all levels of government in British Columbia, Canada, and abroad. FDMS has a diverse network of consultants providing expertise in strategic facilitation, conflict transformation, organizational development and communications.

He is a proud member of the Gilseyhu Clan (Big Frog) of the Wet'suwet'en people from Hagwilget, BC. He has been married for twenty-five years to his wife Teresa, and together they have two daughters, Amanda and Brittany, one granddaughter, Kiana and one grandson, Daniel.

Dan recently completed his Masters of Administration in Conflict Analysis and Management at Royal Roads University (October 2010). He also holds a Certified Professional Facilitator designation from the International Association of Facilitators.

PANEL 1: THE CLEAN ENERGY EVOLUTION

Panelist: Dave Porter, CEO of the First Nations Energy and Mining Council

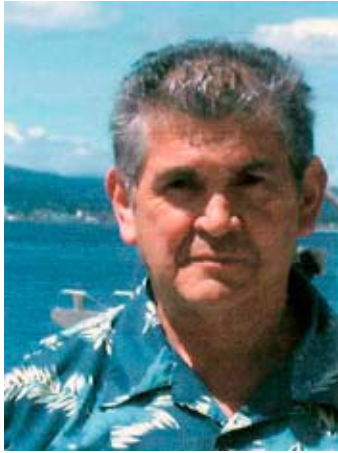


Mr. Porter is a member of the Kaska Nation whose traditional territory covers a large part of north-eastern British Columbia and south-eastern Yukon. His career includes journalism, politics, communications and extensive public service on behalf of aboriginal organizations as well as public governments in the Yukon, British Columbia and the Northwest Territories. Mr. Porter spent the first seven years of his life on a trapline near Good Hope Lake, B.C. His education included Lower Post Indian Residential School, F.H. Collins Secondary School in Whitehorse, Confederation College in Thunder Bay and Pre-Law at the University of British Columbia. Mr. Porter was founding Chairman of Northern Native Broadcasting, Yukon and was elected as Vice-Chair of the Council for Yukon Indians through two terms (1978-1982), holding several portfolios including Land Claims, Housing and Economic Development. In 1982, Mr. Porter was elected to the Yukon Legislature and upon re-election in 1985 he served as Deputy Premier. He has also served as Minister of Renewable Resources, Tourism, Heritage and Culture, and Minister Responsible for

Constitutional Devolution. After leaving the Legislature, Mr. Porter was named Executive Director of the Yukon Human Rights Commission, then Deputy Minister of Culture and Communications for the Government of the Northwest Territories. In the 1990's Mr. Porter served as Assistant Deputy Minister of Aboriginal Affairs for the British Columbia government. He later led the Fur Industry European Lobby on behalf of the Governments of Canada and the United States. Mr. Porter was also the first Oil and Gas Commissioner in British Columbia, where he strived to build an open environment that would bring various interests in the province to a common table. In 2002, Mr. Porter was elected Chair of the Kaska Dena Council, with a special commitment to preserve Kaska culture and create greater opportunity for Kaska youth. Mr. Porter was first elected to the three member political executive of the First Nations Summit, the Summit Task Group, in June 2004, and was re-elected in June 2006 to a second term. The Task Group is authorized by the Summit to carry out specifically mandated tasks on issues related to treaty negotiations in British Columbia. The First Nations Summit, which is comprised of a majority of First Nations and Tribal Councils in BC, provides a forum for First Nations in British Columbia to address issues related to Treaty negotiations as well as other pertinent areas of concern with regards to health, social, and natural resources. Dave is currently the CEO for the BC First Nations Energy and Mining Council (November 2008 to present)

The First Nations Energy and Mining Council will provide an overview of its initiatives and advocacy work with respect to clean energy. FNEMC will share its vision of creating a First Nation Clean Energy Program that provides information about the various stages of a clean energy project and advice for advancing through these stages. We will also discuss how emerging government policy may affect the opportunities for First Nations in the clean energy sector.

Panelist Chief Ralph Dick, We Wai Kai First Nation



Originally a resident of Cape Mudge village, Chief Ralph Dick’s family relocated to Quinsam in 1957. They are now the longest residing residents in Quinsam to date. Currently holding his second consecutive four-year term as Chief of the We Wai Kai Nation, Ralph Dick Sr. gives praise to current and past council for their diligent work in the area of band business, capacity building and community development.

Noting that his biggest accomplishment has been getting everyone to work together on issues pertinent to the band, Chief Dick is emphatic on the importance of a collective approach to band politics. Further stressing that past Elders and community members have already “laid the groundwork” in regard to developing a vision for the We Wai Kai Nation, Chief Dick explains that “we (chief and council) are just trying to make the vision work.”

Past and present projects he has overseen include negotiations with the government concerning the Tsa Kwa Lutén Lodge development, the planning and execution of the Quinsam Crossing Development - and important work toward the development and possession of the We Wai Kai nation’s own land and taxation code.

Holding possession over specific land and taxation codes can create revenue and employment for the band. It will also bring the We Wai Kai Nation one step closer to self governance through land claims, explains the Chief. The issue of respect is also important to Chief Dick, and he says that, “while we stick together in crisis, we should be together all the time.”

The transmission of culture and tradition is also of importance to Chief Dick. He says the ties between Elders and youth must be strengthened, and a deeper respect for one another cultivated. Highest on Chief Dick’s list of community betterment is education. With the old ways slowly vanishing, Chief Dick declares that he doesn’t see a future for our people without education. Furthermore, while the pursuit of knowledge is of importance to Chief Dick, he also asserts that in such pursuits, First Nations people should never forget who they are or from where they have come.

First Nations are becoming more and more actively involved in the new and prosperous clean energy sector; they are realizing their goals of both energy and economic self-sufficiency. We will discuss the growth and interest of First Nations in this sector and the importance of sharing information amongst First Nations to improve the quality of our partnerships and our projects

There is widespread acknowledgement that the need to explore alternative energy sources. We will discuss and hear comments on what’s occurring in other jurisdictions to encourage clean energy and the overall benefits of clean energy.

Panelist: Judith Sayers, Sayers Strategic Advice



Kekinusqs, Dr. Judith Sayers is currently a Strategic Adviser to First Nations and corporations and is also an Entrepreneur in Residence to the Peter Gustavson School of Business as well as an Assistant Professor of Business and Law at the University of Victoria.

Judith was the elected Chief of the Hupacasath First Nation that is located in Port Alberni, BC for 14 years and was also the Chief Negotiator for 15 years. As the senior elected official of her First Nation, she focused on capacity building, sustainable development and restoring and rehabilitating Hupacasath territory.

As Chief of her Nation, Judith was instrumental in the development of the China Creek Run of the River Project which operates in Hupacasath territory. Judith was the President and Chair of Upnit Power Ltd which operates the China Creek project for 6 years. She has recently been re-appointed to the Upnit Board.

Judith also sits on the Public Advisory Panel to the Canadian Electricity Association and is a board member of Clean Energy BC.

THEMES COVERED	
✓	Clean energy policies and programs
✓	BC First Nation initiatives
✓	Industry trends in other jurisdictions

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PANEL 2: PRE-FEASIBILITY (ENERGY RESOURCES AND COMMUNITY ENGAGEMENT)

Panelists: Paul Kariya, Executive Director, Clean Energy BC



Paul Kariya is Executive Director of Clean Energy BC (formerly the Independent Power Producers Association of BC). Prior to this he was Executive Director of Pacific Salmon Foundation. Kariya has also worked in the public sector both federally and provincially. He was CEO of the provincial crown corporation, Fisheries Renewal BC and Executive Director of the BC Treaty Commission, which was established by Canada, BC and First Nations. Paul holds a BA (Hon) from UBC and a MA and PhD from Clark University in Massachusetts. He is an adjunct faculty member at Trinity Western University. Paul serves on a number of boards and commissions, including A Rocha International (Christians in Conservation) and National Nikkei Museum and Heritage Centre. Between 2005 – 2010 Paul was a Commissioner representing Canada on the Pacific Salmon Commission.

To properly plan for a successful clean energy project, First Nations must determine their community's priorities and assess resource and technology options. The extent and variety of available energy sources varies widely, as do the economics of using those energy resources.

The importance of identifying a community energy champion cannot be understated. A successful clean energy project requires the dedicated First Nation leadership and continuity that is provided by the energy champion (or champions).

Chief Otis Jasper, Soowahlie First Nation and President of the Tselqweyexw Tribe



Otis Jasper is currently in his second term as the elected Chief for the Soowahlie First Nation and is also serving his first term as the President of the Tselqweyexw Tribe. The Tselqweyexw Tribe has been exploring opportunities related Run of the River IPPs in their traditional territory. Otis received his BA from UBC, majoring in First Nation Studies with a minor in History. He also received a certificate in Advanced Business Management from Ch'nook Business Education. Currently Otis works for the Stó:lo Tribal Council as Rights and Title manager.

THEMES COVERED

✓	Overview of clean energy resources in BC
✓	Fuel and alternative energy resource assessment
✓	Costs and feasibility assessment
✓	Community engagement
✓	Community Champion

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PANEL 3: PRE-FEASIBILITY (NATION TO NATION AGREEMENTS)

Panelists: Chief Don Harris, Xa'xtsa Nation
Kekinusqs/Judith Sayers, Sayers Strategic Advice



Chief Don Harris (T'seku) is the elected and hereditary Chief of the Xa'xtsa Nation. The Xa'xtsa Nation also known as the Douglas First Nation is a member of the St'at'imc Nation.

Prior to being elected as Chief in 2008, Chief Harris served 7 years on Council.

Other responsibilities of Chief Harris include:

- St'at'imc Chiefs Council Executive
- Lower St'at'imc Tribal Council Executive
- TTQ Economic Development Corporation Executive
- In-SHUCK-ch Resource Management Director

In 2006 the Douglas First Nation negotiation team finalized community participation agreement with Cloudworks Energy Inc. now owned by Innergex for 7 run of river power projects in Xa'xtsa territory. Chief Harris' entrepreneurial background prepared him well to take on the leadership role in 2008 and to focus on implementing the community benefits agreement and work towards building solid business relationships and a sustainable economy for the Xa'xtsa Nation.

Currently Chief Harris is working with his Council and community members on investment and community infrastructure support allocation options from own source revenues generated from six power projects 2010 royalties. The seventh power project NW Stave is now beginning construction and the next group of power projects community participation negotiations with Innergex is underway.

Significant community benefits have been realized including: cash, jobs, contracts, electrical service to two remote communities, fibre optics line for internet service, long-term annual royalties and, the leadership and community capacity with business and political relationship building.

Most First Nations deal with the issue of common territory or overlaps. For both developers and First Nations, there is an increasing need to resolve issues of shared territory or overlaps. We will learn about the Xa'xtsa and Sts'ailes Nations protocol agreement as a potential solution as well as discussing other models.

Chief Willie Charlie, Sts'ailes (formerly Chehalis Indian Band)



William T. Charlie, "Chaquawet" is the elected Chief of Sts'ailes and appointed CEO for the Sts'ailes Administration and the Sts'ailes Development Corporation. William has long been involved with community politics serving on committees and being elected to Council for many terms before his ongoing term as Chief. William was born and raised in Sts'ailes where he learned about the cultural teachings of his people. From early on, Willie used his understanding of Sts'ailes history, culture, and traditions to be a voice for the Sts'ailes people. His leadership and vision is recognized broadly

and he is regularly called upon by many communities and organizations throughout the Lower Mainland to speak at special ceremonies and gatherings to give lectures at Universities and to facilitate conferences.

PANEL 4: DESIGN, BUILD, BID (PROJECT REVIEW AND PERMITTING)

**Panelists: Heather MacKnight, Regional Executive Director, Ministry of Natural Resource Operation (MNRO)
Colleen Giroux-Schmidt, Director, Regulatory Affairs, Innergex**

Heather MacKnight is the Regional Executive Director, South Coast, of BC’s Ministry of Forests, Lands and Natural Resource Operations. She also serves as the Executive Sponsor for the clean energy sector within the Ministry. In this capacity, she has led a number of initiatives to improve the way BC manages the Province’s authorization process for clean energy projects.

Heather joined the BC government in 2004. She has a Master of Urban and Regional Planning degree from Queen’s University and a Bachelor of Arts (Hons.) degree from the University of New Brunswick. She is a member of the Canadian Institute of Planners (MCIP).

The panelists will provide information and advice on navigating through the various permitting processes that you need for your projects. They will provide perspectives on how to effectively deal with environmental, site and fish issues throughout the pre-feasibility/study and planning phases.

Adam Lewis, President, Fisheries Biologist, EcoFish



Adam Lewis has consulted for over two decades to industry, government, and First Nations on fisheries issues for hydroelectric projects in Canada, the United States, and South America. He has assessed, designed mitigation, and monitored dozens of IPPs, from the 50 MW Lower Mamquam Hydroelectric Project in 1992, to the Hupacasath First Nation’s 6 MW China Creek project in 2005, and continuing today with 10 different projects from the 2010 Clean Energy Call. As president of Ecofish Research Ltd., a 50 person firm with offices in Vancouver, Courtenay, Squamish and Saskatoon, he leads an exceptional team of environmental professionals dedicated to helping achieve the promise of clean energy. Throughout this he has played a role in forming the guidelines that regulate development, leading the development of assessment methods for the BC’s Ministry of Environment, and monitoring protocols for Fisheries and Oceans Canada.

THEMES COVERED	
✓	How to liaise with regulatory agencies
✓	Permitting requirements for construction/site, environmental and technology specific permits
✓	Knowing which level of government and agency issues permits

PANEL 5: DESIGN, BUILD, BID (SELLING ELECTRICITY)

Panelists: Jim Scouras and Linda Sahota, Energy Planning, Procurement and Risk, BC Hydro



Jim is a member of BC Hydro’s Energy Planning, Procurement and Risk team, the group responsible for long term planning, acquiring power from the private sector and managing the resulting long-term electricity purchase agreements.

Jim manages the Commercial Acquisitions Team, the group responsible for the design and implementation of BC Hydro energy procurement activities. He holds a Bachelor of Science, as well as a Masters Degree in Natural Resource Management and has worked in the BC electricity sector at BC Hydro for 20 years. During that period of time his responsibilities have included environmental management, natural resource management strategy and policy as well as power acquisitions.

In addition to his work related pursuits Jim is also a member of Board of Directors of New Ventures BC, an Executive Account Manager with the United Way and a volunteer Minor Hockey Coach.



Linda is a member of BC Hydro’s Energy Planning, Procurement and Risk team, the group responsible for long term planning, acquiring power from the private sector and managing the resulting long-term electricity purchase agreements.

As part of the Commercial Acquisitions Team, Linda manages the Standing Offer Program (SOP). The SOP encourages the development of small and clean or renewable energy projects throughout British Columbia, by streamlining the process for selling electricity to BC Hydro and simplifying the sales contract.

She is a CMA who has worked in the BC electricity sector at BC Hydro for over 20 years. During that period of time her responsibilities have included finance, strategic planning as well as energy procurement.

The panelists from BC Hydro will provide First Nations with information and advice on procuring an Electricity Purchase Agreement (EPA) with BC Hydro through the Standing Offer Program (SOP) and other bid processes. They will discuss possible risks in the process and contract obligations including time and cost requirements and grid interconnection issues.

THEMES COVERED	
✓	Overview of steps of competitive procurement process
✓	Power purchase agreement evaluations and negotiations
✓	Timelines and costs for preparing for the bid or applications
✓	BC Hydro’s assessment of First Nations consultation as part of its bid evaluation

PANEL 6: DESIGN, BUILD, BID (PROJECT BUDGETING AND P3'S)

Panelists: Glenn McDonnell, PEng, Engineering Manager, Sigma Engineering Ltd

Glenn McDonnell has over 25 years experience in civil engineering, most of it with Sigma Engineering Ltd and its affiliates including Synex Energy Resources Ltd. Since graduation from UBC he has been involved in design, construction, feasibility studies and financial analysis of several privately funded energy projects as well as preliminary analysis of many other projects. He has also authored or co-authored several studies concerning energy supplies to remote communities in B C and Canada as well as small hydro power studies on specific projects. Glenn has been involved with several studies that described the potential benefits of incorporating small hydro power into the Provincial system and has managed studies covering the potential small hydro resource in BC. As one of the founders of the Independent Power Association of BC he continues to take an active role in promoting the benefits of small independent power generation within BC.

Karl Carisse, Senior Director, Innovation and Major Policy Transformation, AANDC



Karl Carisse has been with the department of Aboriginal Affairs and Northern Development Canada since 1999, he is presently the Senior Director of the Innovation and Major Policy Transformation Directorate in the Community Infrastructure Branch. His main focus is to lead the development of legislation for water regulations in First Nation communities as well as to develop national strategies for connectivity and alternative financing of on-reserve infrastructure. From 2000 to 2004 he worked on the implementation of the *First Nations Land Management Act* and subsequent negotiations to implement this sectoral self-government initiative with First Nations. Before entering the public service he worked with a private research firm developing various historical and legal documents in support of First Nation lands claims, treaty land entitlements, and community histories. Mr. Carisse has a Master’s degree in History and minor in Communications.

Sigma Engineering will provide an overview of the type of financial information you will need to complete a business plan for your project and how the financials are used to bid for a BC Hydro energy purchase agreement.

AANDC will provide an overview of Private Public Partnership models in the clean energy sector and discuss the benefits and risks of P3’s.

THEMES COVERED	
✓	Financial information needed for your business plan
✓	Assembling the right project team to determine project revenue and costs, budgeting and other financials.
✓	Private, Public Partnerships (P3) models and funding sources
✓	The P3 process and the federal government’s role

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PANEL 7: OWN AND OPERATE (CONSTRUCTION AGREEMENTS/MANAGEMENT AND OPERATIONS)

Panelists: Chief Garry Feschuk Shíshálh Nation, Jamie Bassett, Economic Development, Canoe Creek Hydro Company, Sayo Masso, Tla-o-qui-aht First Nation Councillor and Board Member Canoe Creek Hydro Company



Jamie Bassett, M. Sc. B.Sc. is a mechanical engineer and business development consultant with over 35 years of experience. His companies have worked for and with First Nations, corporations, development groups, communities and individuals in western Canada. Bassett & Associates have prepared development plans and land use plans for forestry agriculture and commercial/residential developments, Business Development Plans, Opportunity analysis, feasibility studies, HRD plans, Strategic Economic development plans. He has been the Director of the Tla-o-qui-aht First nation Development Corporation since 2005 and has successfully brought to fruition the Canoe Creek Hydro Corporation a Run of the River power plant owned by the Tla-o-qui-aht First Nations. One of his companies, Central Plains Training Group Inc, worked with First Nations groups, communities and development organizations providing training to expand individual and collective organizational development capacity at the community level for over 12 years.

Engaging First Nation members and businesses during construction is an excellent way to build a trained workforce for operations and maintenance. Construction contract agreements may be an important component of your partnership arrangements for your energy project. The panel discussion will include elements of successful contract agreements to maximize benefits for First Nation businesses and community members as well as potential training requirements.

Canoe Creek Hydro will talk about the types of challenges an owner/operator faces including the technical and management requirements necessary to participate on the board. The panelists from Canoe Creek Hydro will also provide an overview of its business structure, the role of board members and how First Nations board members were chosen and prepared for their duties on the board.

THEMES COVERED	
✓	Elements of successful contract agreements to maximize benefits for First Nation businesses and community members
✓	Technical and management expertise required for operations and maintenance
✓	Business structure

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GUIDE TO RESOURCES

“HOW TO” GUIDEBOOKS AND USEFUL RESOURCES

1. **Coast Opportunity Information Bulletin #1 First Nations Renewable Energy Road Map:** Includes How To: Developing an Energy Profile, Creating a First Nations Energy Plan, Implementing the Energy Plan and Managing Energy Infrastructure.
<http://www.coastfunds.ca/system/files/Renewable-Energy-Bulletin1.pdf>
2. Independent Power Production In BC: An Interagency guidebook for Proponents. BC Government Publication which includes: Sources of information and Advice, Permitting Basics, Stages in Successful power development, Water Power, Wind Power, Connecting to the grid and Selling Electricity, Understanding Environmental Assessment, and community engagement.
http://www.agf.gov.bc.ca/clad/IPP_guidebook.pdf
3. Community Power Services Group: A roadmap for getting your Community power Project from vision to Reality. Diagram.
http://www.ontario-sea.org/Storage/56/4826_Community_Power_Services_brochure.pdf
4. Commission for Environmental Cooperation: Guide to Developing a Community Renewable Energy Project in North America: Information regarding: community Renewable Energy, The Development Process in a Nutshell, Steps to Develop a Community Renewable Project, Developing a Business Plan, Selection of Technology and resource assessment, Financing Permitting, Operational Phase and
http://www.cec.org/Storage/88/8461_Guide_to_a_Developing_a_RE_Project_en.pdf
5. Community Energy Association: Clean Energy for a Green Economy: An introduction for rural BC Communities, May 2010 includes Clean Energy Strategies, getting started and Resources
<http://www.communityenergy.bc.ca/sites/default/files/Clean%20Energy%20for%20a%20Green%20Economy.pdf>
6. Community Energy Association: Powering our Communities: A Module for the Renewable Energy Guide for Local Governments in BC, Sept. 2008: Reviews the Electricity System in BC and types of power
http://www.communityenergy.bc.ca/sites/default/files/ElectricityModule_Final.pdf
7. Micro-Hydro Power System: (NRCAN 2004): A Buyer’s Guide: basic information on micro hydro.
<http://canmetenergy-canmetenergie.nrcan-rncan.gc.ca/fichier.php/codectec/En/ISBN%200-662-35880-5/buyersguidehydroeng.pdf>
8. Canadian Wind Energy Association: Small Wind Turbine Purchasing Guide:
<http://www.canwea.ca/images/uploads/File/SmallwindturbinesFINAL.pdf>
9. BC First Nations Energy Plan
<http://fnbc.info/sites/default/files/documents/Energy%20Action%20Plan.pdf>
10. BC Bioenergy Network: <http://www.bcbioenergy.com/>
11. Arctic Energy Alliance: http://www.aea.nt.ca/resources/resource_library/#renewableenergy
12. Biomass Energy Resource Centre: <http://www.biomasscenter.org/>
13. Canadian Biomass Innovation Network: <http://www.cbin.gc.ca/index-eng.php>
14. Run of River Fact Sheet: http://www.cleanenergybc.org//media/CEBC_FS-RunOfRiver_web.pdf
The **Community Roadmap to Renewable Woody Biomass Energy:** A Step-by-Step Decision-Making Tool
[http://www.nhrdc.net/files/CommunityRoadmapToRenewableWoodyBiomassEnergy%20FINAL%2012%2015%2010%20footer\[1\].pdf](http://www.nhrdc.net/files/CommunityRoadmapToRenewableWoodyBiomassEnergy%20FINAL%2012%2015%2010%20footer[1].pdf)

COMMUNITY ENERGY PLANS

15. CanMET Energy Technology Centre: Community Energy Plan: A guide for Remote Communities (NRCAN 2005) <http://www.thesolarvillage.com/energyplan/CEP%20Remote.pdf>
16. Arctic Energy Alliance: http://www.aea.nt.ca/resources/resource_library/#cep
And http://www.aea.nt.ca/uploads/files/cep_brochure_final.pdf
17. Hupacasath First Nation Energy Plan:
<http://www.hupacasath.ca/sites/default/files/Community%20Energy%20Plan.pdf>

FEDERAL SOURCES FOR FUNDING

18. Community Economic Opportunity Program: INAC
19. EcoAction Community Funding Program: <http://www.ec.gc.ca/ecoaction/default.asp?lang=En&n=FA475FEB-1>
20. Eco-Energy-INAC: <http://www.ainc-inac.gc.ca/enr/clc/pr/ovr-eng.asp>
21. Large Energy Projects Funding Templates: <http://www.ainc-inac.gc.ca/enr/clc/pr/lpft-eng.asp>
22. Western Diversification Program: <http://www.wd.gc.ca/eng/301.asp>
23. Major Resource and Energy Development Investments Initiative (MRED)
<http://www.ainc-inac.gc.ca/aiarch/mr/nr/j-a2009/bk000000312-eng.asp>
24. Strategic Partnership Initiative (Federal) <http://www.ainc-inac.gc.ca/eng/1100100015370>

ABORIGINAL CAPITAL CORPORATIONS

25. All Nations Trust Company (ANTCO): <http://www.antco.bc.ca/>
26. Burns Lake Native Capital Corporation: <http://www.blndc.ca/>
27. CFDC of Central Interior First Nations: <http://www.cfdcofcifn.com/>
28. Nuu-chah-nulth Economic Development Corporation (NEDC): <http://www.nedc.info/>
29. Sto:lo Community Futures: <http://www.stolocf.com/>
30. Tale'awtxw Aboriginal Capital Corporation
Tale'awtxw Aboriginal Capital Corporation (TACC):
<http://www.tacc.ca/>
31. Tribal Resource Investment Corp <http://www.tricorp.ca/>

OTHER FUNDING SOURCES

32. CAPE fund: <http://www.capefund.ca/>
33. BC First Nations Equity Fund LP: <http://www.cleanenergybc.org/media/BC%20First%20Nation%20Equity%20Fund%20LP%20-%20Ron%20Arcos.pdf>
First Nations Finance Authority: <http://www.fnfa.ca/>
34. Coast Opportunities Fund: <http://www.coastfunds.ca/index.php>
35. First Nations Regeneration Fund: <http://ecotrust.ca/energy/investing>
36. First Nations Infrastructure Fund: <http://www.ainc-inac.gc.ca/eng/1100100010656>
37. Van City: <https://www.vancity.com/MyCommunity/NotForProfit/Grants/>

BC GOVERNMENT FUNDING SOURCES

38. BC Clean Energy Business Fund (Prov of BC): http://www.gov.bc.ca/arr/economic/down/fncebf_guidelines_aug_2011.pdf
39. BC Government Support Program for First Nations and Civic Community Energy Efficiency and Clean Energy Project: lists different funding organizations and programs in BC:
[http://www.em.gov.bc.ca/RET/CommunityEnergySolutions/Documents/Funding%20and%20Support%20Guide_Community%20Energy%20\(updated%20February,%2016%202011\).pdf](http://www.em.gov.bc.ca/RET/CommunityEnergySolutions/Documents/Funding%20and%20Support%20Guide_Community%20Energy%20(updated%20February,%2016%202011).pdf)

BC HYDRO

40. How Power is Acquired:
http://www.bchydro.com/planning_regulatory/acquiring_power/how_power_is_acquired.html
41. Standing Offer Program:
http://www.bchydro.com/planning_regulatory/acquiring_power/standing_offer_program.html
42. Interconnections: http://www.bchydro.com/planning_regulatory/acquiring_power/generator_interconnections.html
43. Net Metering: http://www.bchydro.com/planning_regulatory/acquiring_power/net_metering.html
44. Feed in tariff: http://www.bchydro.com/planning_regulatory/acquiring_power/feed_in_tariff.html
45. Electricity Purchase Agreements: http://www.bchydro.com/planning_regulatory/acquiring_power/customer_generation/electricity_purchase_agreement.html
46. IPP Supply Map as of April 1, 2011: http://www.bchydro.com/etc/medialib/internet/documents/planning_regulatory/acquiring_power/2011q2/IPP_Supply_Map.Par.0001.File.20110401-IPP-SupplyMap.pdf

1. GUIDANCE AND RELATED MATERIAL FOR DEVELOPING A CLEAN ENERGY PROJECT IN BC:

Waterpower Project Page	BC's Provincial Waterpower Page
Ocean Energy Project Page	BC's Provincial Ocean Energy Page
Windpower Project Page	BC's Provincial Windpower Page
Design Criteria for Works that may Impact Forest Roads or Timber Tenures	These design criteria, prepared by the Ministry of Forests and Range (MFR), will be of use to professionals designing waterpower project works proposed within or adjacent to an existing forest road right-of-way.

2. LINKS TO OTHER MINISTRIES AND JURISDICTIONS:

BC Environmental Assessment Office	The Environmental Assessment Office (EAO) is a neutral agency that manages the review of proposed major projects in British Columbia, as required by the Environmental Assessment Act.
Ministry of Energy and Mines: Renewable Energy and Technologies	Ministry of Energy and Mines renewable energy webpage provides information on various forms of renewable energy and technologies including: Geothermal, wind, ocean, hydro, solar, and bio-energy.

Canadian Environmental Assessment Agency	The Canadian Environmental Assessment Agency is a federal body accountable to the Federal Minister of the Environment. The Agency works to provide Canadians with high-quality environmental assessments that contribute to informed decision making, in support of sustainable development.
Ministry of Aboriginal Relations and Reconciliation: First Nation Consultation Guides	Guide to involving Proponents When Consulting First Nations.
Ministry of Aboriginal Relations and Reconciliation: FN Clean Energy Business Fund	Information on the First Nations Clean Energy Business Fund.
Department of Fisheries and Oceans: Working Near Water in BC and the Yukon	Fisheries and Oceans Canada’s (DFO) Pacific Region Habitat Management Program is responsible for protecting and conserving marine, intertidal and freshwater fish habitats in BC and Yukon. This website provides information to assist land owners, governments, industry, and consultants when planning and conducting activities near water.
Transport Canada: Navigational Impact Assessment Requirements for Privately Operated Hydro Electric Facilities	This report outlines proponent requirements of the Transport Canada, Navigable Waters Protection Division to undertake a navigational assessment specific to Clean Energy projects in British Columbia.

3. TECHNICAL AND MAPPING TOOLS

Integrated Land and Resource Registry (ILRR)	The Integrated Land and Resource Registry (ILRR) is a spatially enabled, comprehensive register of legal interests, rights, designations, and administrative boundaries on Crown land. It also has information on land and resource restrictions and reservations (e.g. Parks) and locations of private land.
Geo BC	GeoBC is an essential public sector service that allows the BC government, partner agencies, and citizens to create, access, and use provincial geographic information.

RELEVANT POLICIES, ACTS, AND REGULATION PAGE (LINKS)

Waterpower Policy <http://www.agf.gov.bc.ca/clad/Documents/LPSB/Policies/waterpower.pdf>

Windpower Policy http://www.agf.gov.bc.ca/clad/Documents/LPSB/Policies/wind_policy.pdf

Ocean Energy Policy http://www.agf.gov.bc.ca/clad/Documents/LPSB/Policies/ocean_energy.pdf

Land Act http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96245_01

Water Act http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96483_01

Water Regulation http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/12_204_88

Sensitive Streams Designation and Licensing Regulation http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/11_89_2000

British Columbia Dam Safety Regulation

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/10_44_2000

Water Protection Act

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_96484_01

Environmental Assessment Act

http://www.bclaws.ca/EPLibraries/bclaws_new/document/ID/freeside/00_02043_01

Environmental Assessment Act: Reviewable Projects Regulation

http://www.bclaws.ca/EPLibraries/bclaws_new/document/LOC/freeside/--%20e%20--/environmental%20assessment%20act%20sbc%202002%20c.%2043/05_regulations/13_370_2002.xml

[Fish Protection Act](#)

[Forest and Range Practices Act](#)

[Forest Practices Code of British Columbia Act](#)

[BC Environmental Assessment Act](#)

[Canadian Environmental Assessment Act](#)

[BC Climate Action Plan](#)

[BC Energy Plan](#)

PROJECT APPLICATIONS AND RELATED DOCUMENTS PAGE

WATERPOWER:

[Waterpower Application and Completeness Checklist –For power general purpose only \(hydro-electric power produced for sale\)](#)

WINDPOWER:

Windpower Policy

http://www.empr.gov.bc.ca/SiteCollectionDocuments/Wind%20policy_August_2010.pdf

[Crown Land Application Form](#)

[Windpower Project Application Requirements](#)

OCEAN ENERGY:

[Ocean Energy Policy](#)

[Crown Land Application Form](#)

[Ocean Energy Project Application Requirements](#)

GENERAL:

Clean Energy Development Plan Information Requirements

http://www.env.gov.bc.ca/wsd/water_rights/waterpower/cabinet/dpir_july-2011.pdf

FIRST NATIONS CLEAN ENERGY PROJECT CHECKLIST

PRE-FEASIBILITY

COMMUNITY ENGAGEMENT	COST
Community information and education	
Determine community objectives/priorities: reliability, cost, GHG's, capacity, political, ownership, other?	
Determine decision making process – form a committee of Council, planning/governance of project over time	
Secure approvals/partnerships from other neighbouring First Nations	
Determine community champion – paid position, accountable	
Determine external champion	
DEVELOP COMMUNITY ENERGY PLAN (CEP)	
CEP needs to be substantially accurate and forward looking, auditable	
Develop community electrification plan (and future consumption)	
Identify all viable clean energy resource options – hydro, biomass, solar, wind	
Energy Source Evaluation Assessment (biomass harvesting)	
Energy audit to confirm CEP	
Load profile (demand and consumption profile)- Forecast demands and loads 10-20 years. Gap analysis.	
Demand side management (DSM) opportunities	
Determine technology options	
Consider use of existing diesel in remote communities	
Measurement of performance versus objectives	
Evaluate options, review of feasible options plus recommended next steps	
Energy system pre-feasibility	
FUNDING	
Funding assessment–ballpark revenues and costs – the business and social case for seed funding	
Determine sources of funds	
Secure capacity funding for planning assessment	
Understanding of revenues and operating standards of community and any distribution partners	
OWNERSHIP OF EXISTING INFRASTRUCTURE	
Plan for potential ownership transfer issues (INAC, BCH)	
Consult with the utility (ie. BC Hydro)	
Preferable to achieve MOU with BC Hydro	
Determination of infrastructure owners/operators – structure of ownership or partnership	
DECISION	
Get a reliable, competent, professional assessment (third party review of feasibility plan) = first step of the design requirement	
Select a generic technology and resource	

PLAN AND EXECUTE (DESIGN, BID, CONTRACT, COMMISSION)	
	COST
Raise development funding for planning phase	
Confirm pre-feasibility	
Business plan development (direct/indirect benefits to community and province)	
Detail all steps required – funding required, funding sources, permits and expertise required	
Partner identification (equity, financing, project management)	
Vendor/supplier selection–Issue Request for Proposals for technology (energy system provider)	
Complete 25% of preliminary design (include interconnection)	
PERMITS AND APPROVALS	
Confirm costs and feasibility	
Arrange Electricity Purchase Agreement (EPA) or arrangement to sell power to community (negotiations, select consultants or bid into BCH energy call)	
Confirm project financing (who is funder of design, bid process?)	
Tender for construction/ Contractors to provide bids/quotes – select contractor	
Complete detailed design to 100%	
Start construction (many details)	
Complete construction	
Carbon credits–identify, determine ownership, sell	

OWN, OPERATE, REFINANCE	
	COST
Re-finance through the First Nation Finance Authority	
Operation and maintenance for energy system (trouble shooters/system support)	
Infrastructure support, contingency plan	
Monitoring (system performance and impact on community)	
Shared information and experience	
Fuel supply management	

The following must occur throughout all phases:

- ✓ Community engagement and expectation management
- ✓ Capacity building and training
- ✓ Networking and sharing of best practices
- ✓ Identifying and securing funds

