

**Kordyban, Jaya ABR:EX**

---

**From:** Kristin Wild <KWild@kwl.ca>  
**Sent:** Tuesday, September 30, 2014 1:54 PM  
**To:** Wood, Lindsay ABR:EX  
**Cc:** ggabriel@pib.ca; Ron Monk; File  
**Subject:** Penticton Indian Band FNCEBF Application  
**Attachments:** PentictonIndianBandFNCEBF\_Letter\_Signed.pdf; PIB\_FNCEBF\_CoverPage.pdf; BCR\_FNCEBF\_May6.pdf; PentictonIndianBand\_fncebf\_capacity\_funding.xlsx

Good afternoon Lindsay,

Further to our phone call a few weeks ago, PIB and KWL have put together a revised FNCEBF application for the proposed hydroelectric and wind assessment. I've included the following items for your review:

- Covering Letter;
- Detailed budgetary breakdown of work tasks and reporting;
- Team member biographies;
- Band Council Resolution; and
- FNCEBF excel template application.

We would appreciate if you could kindly confirm receipt of this application. I'd be happy to speak with you if you have any questions or comments regarding PIB's application.

Best regards,

---

**Kristin Wild, M.A.Sc., P.Eng.**  
Project Engineer

D 604 293 3273  
[www.kwl.ca](http://www.kwl.ca)

**KERR WOOD LEIDAL**  
consulting engineers

---

The information in this message and/or its attachments is confidential. Use or disclosure of the contents by anyone other than the intended recipient is prohibited. If you have received this in error, please delete and notify the sender immediately.

---

KWL File #0695.006

First Nation Clean Energy Business Fund (FNCEBF)

Capacity Funding - Project Proposal

FIRST NATION APPLICATION

Applicant Name:	Penticton Indian Band
Organization Mailing Address:	RR#2 Site 80 Comp19 Penticton, BC V2A 6J7
Community/Corporate Contact Person:	Greg Gabriel, Band Administrator
Project Manager Contact:	250-493-0048

PROJECT TIMELINE

Estimated start date [yyyy-mm-dd]	01/15/2015
Estimated end date [yyyy-mm-dd]	30/06/2015

Project Type	Assessment of Hydroelectric Power from the Okanagan Lake Dam and Small Wind Power
Name	Penticton Indian Band Hydroelectric and Small Wind Power Assessment

Answer the following questions:

Is your community connected to the major electrical grid or a remote community?	<input checked="" type="checkbox"/> Grid Connected
Are you pursuing BC Hydro for RCE or NIA?	<input checked="" type="checkbox"/> No
Do you have a Community Energy Plan or Pre Feasibility Report	<input checked="" type="checkbox"/> No
Do you currently have or plan on pursuing an EPA?	<input checked="" type="checkbox"/> Yes Will seek EPA to sell power from possible hydroelectric project
Are you developing your own project or a joint project?	<input type="checkbox"/> Not a joint project

Briefly explain the project

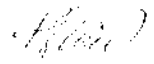
Feasibility study will assess the possibility of a hydroelectric project at the Okanagan Lake Dam with a fish ladder to provide access to the lake, and wind project for community power. Financially viability will be identified and recommendations will be put forward on how to proceed further with development.

Project Summary	See worksheet Project Definition, prior to completing current worksheet
Project Outline	See worksheets Project Purpose, Expected Benefits, Project Activities and Project Deliverables
Project Budget	See project worksheet Budget
Other Sources of Funding	See project worksheet Other Funding.

Terms and Conditions and Reporting Requirements

1. I have read, acknowledge and accept the terms of a FNCEBF Capacity Initiative from the Guidelines as provided with this proposal form.
2. I have enclosed documentation (e.g., a Band Council Resolution, Tribal Council Resolution or Directors' Resolution) that confirms that this proposal meets the eligibility requirement. (See FNCEBF Guidelines)
3. I have attached details regarding other organisations which are participating in funding this work, as in attached worksheet Other Funding.

I Agree to the above terms and conditions on behalf of Penticton Indian Band.

Date	30-Sep-14
	
	Signature of person authorized by the Band, Tribal Council, or Organization
	After signing, please e-mail to Lindsay.wood@gov.bc.ca or fax to 250.387.6073, Attention Climate Change Project Advisor

## PROJECT PURPOSE AND GOALS

Please only fill out ONE of the three tables please review the "project definitions" to determine which table to populate.

- Upon completion of a table, please erase the unpopulated tables

### Pre-feasibility/Feasibility Project Purpose and Goals

Community History	The Penticton Indian Band is a member of the Okanagan Nation. The Band is located in Penticton BC and has 1034 registered members. There are two separate areas of the community: the West hill Subdivision, with approximately 100 homes, and the Lower Village Core, with approximately 75-100 homes. The two areas are separated by 2 to 3 km.
Project Description	Feasibility study will assess the possibility of a hydroelectric project at the Okanagan Lake Dam with a fish ladder to provide access to the lake, and wind project for community power. Financially viability will be identified and recommendations will be put forward on how to proceed further with development.
Completed Pre-Feasibility Work	The Okanagan Dam has been the subject of a previous feasibility study by students at UBC Okanagan. The previous report will be reviewed to determine if the findings within it are valid and feasible.
Project Team	Kerr Wood Leidal (KWL) will complete this study. The project members are Ron Monk, M.Eng. , P.Eng., as Project Manager, Kristin Wild, M.A.Sc., P.Eng., as Project Engineer, David Ward, EIT as Junior Engineer, and Jack Lau as GIS Specialist. Biographies for these individuals are included within this application. KWL has extensive experience completing Renewable Energy Studies and has completed feasibility studies for many First Nations. Nigel Skermer will serve as a senior advisor and was involved in the original UBC Okanagan study of the Okanagan Lake Dam. There is potential to work with UBC Okanagan on this project.
Purpose	The purpose of the feasibility study is to determine if the two projects selected by the Penticton Indian Band are both financially and technically possible, and if so to provide the Penticton Indian Band with recommendations on how to proceed with the development of the projects. This study will help build the energy capacity of the Penticton Energy Band. The FNCEBF funding will allow the Penticton Indian Band to complete this work with the assistance of KWL. KWL and the Penticton Indian Band are aware that changes to the BC Hydro SOP may disqualify this project from the SOP and are in discussion with BC Hydro about these changes.
Community Engagement	The Penticton Indian Band Council met on May 6, 2014 and signed a Band Resolution designating Kerr Wood Leidal as the lead representative in discussions associated with acquiring FNCEBF funding.
Objective	The main objective of this project is to identify the benefits of the selected projects for the Penticton Indian Band. The hydroelectric and wind projects will have the potential to provide the Penticton Indian Band with future streams of revenue that can be used to facilitate further community and economic development, while the small wind project will allow for more self sufficiency in terms of reservation power use.

## EXPECTED PROJECT BENEFITS

Please only fill out ONE of the two tables please review the "project definitions" to determine which table to populate.

- Upon completion of a table, please erase the other unpopulated table

### Pre-Feasibility/Feasibility/Partnership Evaluation Expected Benefits

Expected Benefit	Benefit Description
Current Job Opportunities	Consultation with the on reservation hatchery personnel during the aquatic species assessment
Future Job Opportunities	s.16,s.21
Benefit #3	The existing Dam functions as a fish barrier to Okanagan Lake. The design of the hydroelectric project will focus around an environmentally sound design that will allow salmon and other fish to pass to and from Okanagan Lake using a fish ladder. This will be a considerable environmental benefit as well as an item of cultural significance for the Penticton Indian Band.
Benefit #4	Hydro project utilizes existing dam structure with modifications and would provide improvements to existing infrastructure
Benefit #5	s.16,s.21

PROJECT ACTIVITIES AND ESTIMATED TIMELINES

Activities	Activity Description	Estimated Completion Date
1. Hydro Assessment	<p>Hydropower Assessment</p> <ul style="list-style-type: none"><li>• Review existing UBC study to determine if the findings are valid and feasible.</li><li>• Identify possible design capacity (MW) of the Okanagan Lake Dam.</li><li>• Assess the financial viability, environmental parameters, and constructability of the project.</li><li>• Perform aquatic species search on project using publicly available source. Discuss how species could impact project configuration. Penticton Indian Band Hatchery Staff to complete aquatic species work with assistance from KWL.</li><li>• Examining potential fish ladder modifications as part of the project.</li></ul> <p>s. 16, s. 21</p> <ul style="list-style-type: none"><li>• Identify any other issues that could impact the development of the project.</li></ul> <p>s. 16, s. 21</p> <ul style="list-style-type: none"><li>• Optimization of project and sensitivity analysis are outside of project scope.</li></ul>	2015-June-30
2. Wind Assessment	<p>Small and Utility Scale Wind Power Assessment with TWN Windpower</p> <p>s. 16, s. 21</p> <ul style="list-style-type: none"><li>• Use publicly available information to identify areas of wind power potential within the study area.</li></ul> <p>s. 16, s. 21</p> <ul style="list-style-type: none"><li>• Optimization of projects and sensitivity analysis are outside of project scope.</li></ul>	2015-June-30

**Project Activities**

Go to the top left of this sheet to enter information.

Provide a description of the FNCEBF project activities, starting with a work plan. Activities will be a general, chronological description of the key tasks and timing of the project.

Please provide a description of each activity for the project and the processes involved to complete each one.

**IF APPLICABLE:** Include a description of any community involvement with any of the project activities.

Also, please include estimated completion dates for each project activity.

**IF APPLICABLE:** If a project team has been selected for the FNCEBF project team individual(s)/ company/management chosen for each project activity.

PROJECT DELIVERABLES

Create an itemized description of the project deliverables including specific due dates and a full description of each deliverable. Insert rows as necessary

Deliverable	Date to be Delivered [yyyy-mm-dd]
Meeting with Penticton Indian Band to finalize study scope and identify any specific areas of interest.	2015-01-15
Submit Draft Report to Penticton Indian Band	2015-06-01
Meet to discuss any changes to the report required by the Penticton Indian Band	2015-06-12
final report [mandatory]	2015-06-30
final expenditure report [mandatory, see budget sheet]	2015-08-28

Project Deliverables

Go to the top left of this sheet to enter information.

If your application is approved, it is likely that you will receive your initial payment to begin the project approximately 90 days after the intake deadline date. Please develop your budget and deliverable dates to reflect the initial payment timeline.

These deliverables may take the form of reports, maps, drawings or photos.

These products are deliverables that must be submitted as interim deliverables or as part of the final report. The final report must also include a summary and results obtained from each activity as indicated in the 'Project Activities' section. To comply with the Terms and Conditions of the financial arrangement, the deliverables will be submitted electronically to [Lindsay.wood@gov.bc.ca](mailto:Lindsay.wood@gov.bc.ca)

Budget - use this to itemize your budget						
Note: you can use this form as a template for your expenditure reports as well. Simply save to another document, and fill in the "Actual Expenditure" column.						
Item - Please See Schedule of Efforts and Fees	No. of Days	Rate/day	Total Budget	Use this column to identify which funding source is being utilized to support the project cost/ activity (i.e. FNCEBF, First Nation, BC Hydro, AANDC, etc.)	Actual Expenditure [use this column to do the Expenditure Report]	Variance from original Total Budget [Use this column to do the Expenditure Report]
professional & technical fees (Ron Monk, M.Eng., P.Eng., Project Managor)	s.16,s.17,s.21			FNCEBF		
professional & technical fees (Kristin Wild, P.Eng, Project Engineer)				FNCEBF		
professional & technical fees (KWL GIS Specialist)				FNCEBF		
professional & technical fees (KWL Junior Engineer)				FNCEBF		
Travel expenses - accommodation				FNCEBF		
Travel expenses - meals - No. of Days and Rate/day				FNCEBF		
Small wind assessment subconsultant				FNCEBF		
Penticton Indian Band hatchery personnel to complete aquatic species assessment with KWL assistance				FNCEBF/PIB		
Subtotal						
Administration (up to 10% of total budget)				FNCEBF/PIB		
Totals			\$ 50,000.00		\$	\$

OTHER SOURCES OF FUNDING

Funding Source	Description	Contact Information, if required	CONFIRMED	PENDING
AANDC	Future ecoENERGY application for project advancement - conditional on preliminary feasibility and FNCEBF application			s.16,s.21
Penticton Indian Band	In-kind contribution on project onset - Economic Development department, project champion time contribution, etc.			
NOTE: All additional funding will be conditional on project advancement				
		Total Funding from other Sources - CONDITIONAL	\$	-



### What is a Community Energy Plan (CEP)?

1. A process to build community awareness and understanding on energy issues, impacts and opportunities through community meetings/events, planning documents and educational activities;
2. To consult with the community members on their specific objectives related to energy and develop a community vision in support of shared objectives;
3. To estimate the current community energy demand/supply and forecast for future energy needs and availability;
4. To identify and evaluate various options for increasing energy efficiency and developing clean energy resource potential; and
5. Assess the environmental, social, and economic feasibility of energy supply options for meeting the energy needs of the community.

Elements of the CEP should be forward looking and require many assumptions for predictive purposes. There is a high degree of uncertainty associated with these assumptions and considerable opportunity for actual outcomes to diverge from those predicted. This CEP is therefore intended as a first approximation, to be revisited as newer and more in-depth information becomes available.

If a community is a remote community and considering receiving services from a regulated utility (e.g. for the provision of electricity or for the provision of heating), the CEP is one of the documents that can be used to support a utility's regulatory application for the provision of energy utility services in the community. If this is applicable to your community, include introductory wording highlighting the utility service the community is considering, and the scope and objectives for exploring this within the CEP.

### PRE-FEASIBILITY

To determine the positive economic benefits that the proposed renewable energy system will provide. This might include the quantification and identification of all the benefits expected from the project, examples might include: reductions in GHG emissions, payback period, economic development for the community and training opportunities. The data and analysis listed below would need to be obtained in order to demonstrate the rationale behind proceeding with a particular project in your project conclusions or next steps.

Before providing assurance that the local Utility is supportive of a specific project, the appropriate pre-feasibility studies must be completed to demonstrate that it is the best technical solution to meet the community's needs and demand, and the solution can provide the best potential savings to the ratepayers of British Columbia. These projects at this stage will not have a Letter of Intent from BC Hydro until the review of the work is completed by a third party to know the right stream, site or technology that is being pursued. If a Letter of Intent has been issued the project would then begin the Feasibility Study.

#### Hydro

- Desktop study of topography, available head, watershed characteristics (drainage area, storage volumes e.g. lakes, slope coverage), local drainage information, MAR (mean annual rainfall)
- Installation of stream flow gauge and collection of a minimum one (1) year of in-flow stream data on one of the streams of interest, including periodic stream flow water level and volume measurements to develop a rating curve
- Water level checks at other potential streams (for use in correlation analysis)
- Correlation analysis to all other streams and the potential energy production at these streams
- Comparison of available hydraulic resource (head, flow and storage, i.e. hydrology) to demand profile
- Site visit to make visual assessment of practical design and construction considerations

#### Wind

- Desktop study of topography, and Canadian meteorological information
- One (1) year of on-site wind data for one site
- Correlation analysis to other potential sites and potential energy production at these sites
- Comparison of wind resource availability to demand profile
- Site visit to make visual assessment of practical design and construction considerations

#### Bioenergy

- Detailed fibre plan
- Thermal generation technology selection details or specifications
- Generation constraints to demand profile (e.g. ability for quick turnaround, operating at different seasonal capacities)
- On-going operational expertise required for remote community
- Site visit to make visual assessment of practical design and construction considerations

#### Solar

- Desktop study of solar/Canadian meteorological information
- Correlation analysis to other potential sites and potential energy production at these sites
- Comparison of irradiation profile to demand profile
- Site visit to make visual assessment of practical design and construction considerations

#### Other Technologies

- To be determined on an as needed basis

#### FEASIBILITY STUDY

To determine the positive economic benefits that the proposed renewable energy system will provide. This would include the quantification and identification of all the benefits expected from the project, examples might include: reductions in GHG emissions, payback period, economic development for the community and training opportunities. This feasibility study would involve a cost/benefits analysis and the completion of all of the required permitting, including environmental assessments. A technical overview of the proposed system and why this system was chosen over other systems, including an evaluation of the capital equipment required to meet the needs of the proposed system. The business plan will also include the length of time required to build and construct the project, taking into consideration building seasons. This schedule would measure how reasonable the project timetable is, whether or not the project deadlines are reasonable and manageable. Some projects are initiated with specific deadlines and the developer may need to determine whether the deadlines are mandatory or desirable.

Feasibility Study/Business Plan should include:

- High level design
- Completed Environmental Assessments
- Completed land tenures and water licensing
- Transparency of all project costs and financial expectations to all stakeholders
- Business case and financial model between all agencies, proponents, and any present and future equity/debt providers
- Community Support



**BAND COUNCIL RESOLUTION  
PENTICTON INDIAN BAND**

BCR No. \_\_\_\_\_

A quorum for this Band consists of five Council Members

**NOTE:** The words, "From our Band Funds", "Capital" or "Revenue" whichever is the case, must appear in all resolutions requesting expenditures from Band Funds

THE COUNCIL OF THE **PENTICTON INDIAN BAND** PIB Capital Fund Balance \$ \_\_\_\_\_  
DISTRICT **BRITISH COLUMBIA REGION** PIB Revenue Fund Balance \$ \_\_\_\_\_  
PLACE **ADMINISTRATION BUILDING**  
DATE **May 6<sup>th</sup> 2014**  
PROGRAM **Economic Development**

**WHEREAS:** At a duly convened Band Council meeting the Pentiction Band Chief and Council do recognize and accept their duties and responsibilities in relation to effective governance of all affairs for the Pentiction Band, and;

**WHEREAS:** The Pentiction Indian Band Chief and Council recognize and accept their duties and responsibilities in relation to effective Governance of all affairs for the Pentiction Indian Band and Okanagan Nation, and;

**WHEREAS:** The Pentiction Indian Band Chief and Council recognize and accept their responsibility to serve as protectors of the lands, waters, and natural resources of all Pentiction Band lands and traditional territories, and;

**WHEREAS:** They have acknowledged and do recognize the major economic, social and technological changes in today's world inclusive of alternative energy sources and projects, and;

**WHEREAS:** The Pentiction Band Council supports the review and assessment of renewable and alternative energy projects within their traditional territories, and;

**WHEREAS:** The Chief and Council of the Pentiction Indian Band do hereby support the request to access funding under the **First Nation Clean Energy Business Fund (FNCEBF)**

**THEREFORE BE IT RESOLVED:**

That at a duly convened Band Council Meeting held Tuesday, May 6<sup>th</sup>, 2014 the Pentiction Indian Band Chief and Council do hereby authorize and designate Kerr Wood Leidle Associates Ltd. as the lead representative in discussions associated with acquiring the above-mentioned funding and implementation of the work.

 (Councillor Inez Pierre)	 (Chief Jonathan Kruger)	 (Councillor Clinton George)
 (Councillor Clint Gabriel)	 (Councillor Dolly Kruger)	 (Councillor Travis Kruger)
 (Councillor Joseph Pierre)	 (Councillor Timothy Lezard)	 (Councillor Kevin Gabriel)

September 30, 2014

Ms. Lindsay Wood  
Climate Change Project Advisor  
Ministry of Aboriginal Relations & Reconciliation  
PO Box 9100, STN. PROV. GOVT.  
Victoria, BC V8W 9B1

Dear Ms. Wood:

**RE: PENTICTON INDIAN BAND HYDROELECTRIC AND SMALL WIND POWER ASSESSMENT**  
**First Nations Clean Energy Business Fund**  
**KWL File No. 0695.006-120**

This project was initially submitted under the First Nations Clean Energy Business Fund (FNCEBF) in May 2014. On September 12, 2014, Penticton Indian Band (PIB), Kerr Wood Leidal (KWL), and Ms. Lindsay Wood held a teleconference to discuss ways in which the application could be improved for the September 2014 funding intake. KWL is resubmitting this application as agents of PIB, as per the Band Council Resolution dated May 6, 2014.

This Letter is to accompany the FNCEBF application template. The purpose of this study is to conduct an assessment of two renewable energy projects for the Penticton Indian Band, and then to identify if the projects are economically viable. This assessment is the first step in the potential development of these clean energy projects which would generate additional infrastructure and revenue for the community.

In addition to the downstream community benefits that these projects can provide, there are also immediate opportunities for involvement by the Penticton Indian Band. One primary consideration will be to focus on removing the existing fish barrier that the Okanagan Lake Dam currently presents and to allow access to and from the lake by salmon and other fish species and assessing the aquatic species and the benefits of allowing access to Okanagan Lake via a fish ladder. This is not only a major environmental benefit, but also that of considerable cultural significance to PIB. This facility is shown in Figure 1 from a previous site visit.

To accomplish this, one or more of the Penticton Indian Band members involved with the on reservation fish hatchery will be hired to complete the assessment with assistance from KWL as needed. KWL will, through the course of the study, continue to develop opportunities for members of the Penticton Indian Band to participate in the work plan and will consult with the Band Council to match Band Members with study tasks in order to ensure the Penticton Indian Band is as involved in the project as possible. If funding is awarded, PIB will contribute considerable in-kind funding based on their members' involvement.



September 30, 2014  
Ms. Lindsay Wood  
First Nations Clean Energy Business Fund

Future opportunities include involving band owned companies such as Westhills aggregates in the construction of the projects and the possibility of hiring a band member as a utility operator. It is also expected that the Economic Development arm of PIB and their Lands Department would be heavily involved if this project were to advance.

The primary contact for green energy projects in the Penticton Indian Band is Greg Gabriel, the Band Administrator. Mr. Gabriel is engaged and interested in determining the possibilities for green energy projects for the Penticton Indian Band and is a driving force behind this project. Biographies of project team members are appended to this funding submission.

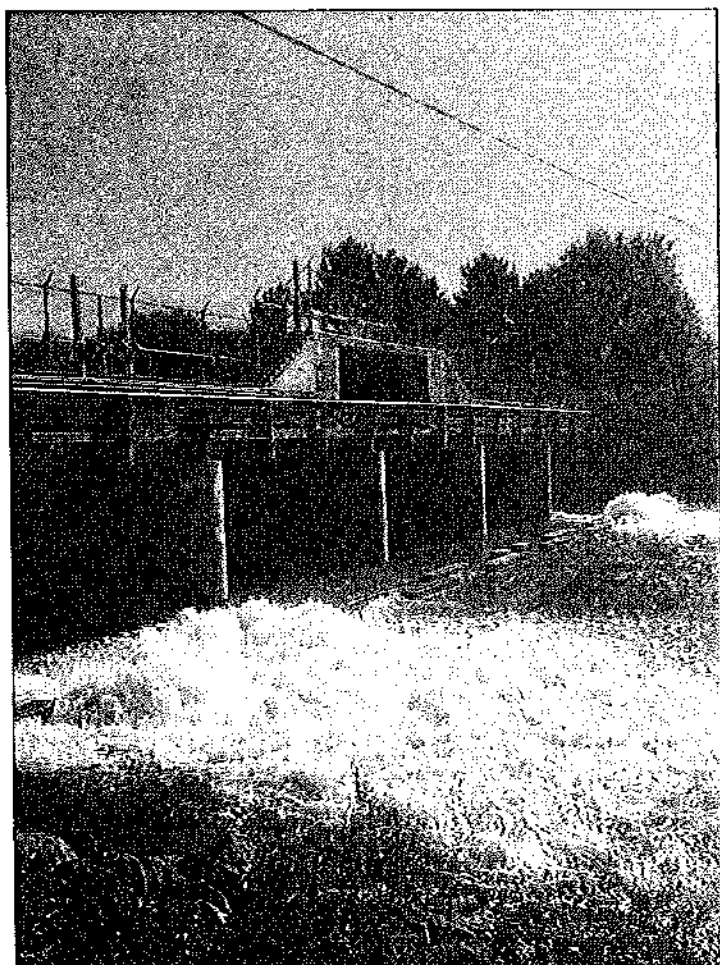


Figure 1: Okanagan Lake Dam

KERR WOOD LEIDAL ASSOCIATES LTD.  
consulting engineers

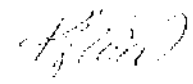


September 30, 2014  
Ms. Lindsay Wood  
First Nations Clean Energy Business Fund

We also think it is important to consider the future work and economic benefits that this study could provide for the community. This funding would open the door for the Penticton Indian Band to become actively involved in the development of local clean energy supply for their community and the Okanagan. Please feel free to contact Kristin Wild, the undersigned at (604) 293-3273 with any questions.

Yours truly,

KERR WOOD LEIDAL ASSOCIATES LTD.

 Digitally signed  
by Kristin Wild  
Date: 2014.09.30  
13:19:07 -07'00'

Kristin Wild, M.A.Sc., P.Eng.  
Project Engineer

KW/sk

KERR WOOD LEIDAL ASSOCIATES LTD.  
consulting engineers

Panction Indian Band

Table 1: Schedule of Effort and Fees

Task No.	Description of Task	ESTIMATED HOURS (HOURLY RATE)							Expenses	Total Est'd Costs
		Project Manager	Project Engineer	GIS Specialist	Junior Engineer	Professional Fees	TWN Windpower	PIB Staff		
		RJM \$210	KAW \$126	JL \$129	DW \$98	(Subtotal) \$				\$
1	Hydropower Assessment									
a	Review UBC Study	s.16,s.17,s.21								
b	Identify design capacity of Okanagan Lake Dam									
c	Assess feasibility of project									
d	Aquatic species work									
e	Fish ladder assessment									
f	Energy generation model									
g	Reporting									
Subtotal, Task 1 (excluding taxes, rounded to nearest \$100):										
2	Windpower Assessment									
Total (excluding taxes, rounded to nearest \$100):										\$45,000.00



## Biography Appendix

### Greg Gabriel – Band Administrator, Penticton Indian Band

Greg Gabriel has over 40 years of experience working with and for the Penticton Indian Band. He began as a millwright, and as job steward represented all union workers at his mill at Local IWA Union meetings. In 1998 Greg undertook the management and supervision of the sand, gravel and aggregate business owned by the Penticton Indian Band and is a former Band Councillor and Fire Chief. Greg has served as Band Administrator since 1983 and is responsible for the oversight and supervision of the Penticton Indian Bands' various programs including all public works and capital infrastructure projects and maintenance, capital housing programs, Band social, economic and education development as well as administration of Band personnel and finances.

Greg is a current member of the Penticton Indian Band Development Corporation Economic Advisory Board and is a Certified Small Water Systems Operator. He still serves on the Penticton Indian Band Fire Department and is past Director of both the Intertribal Forestry Association and the First Nations Woodland Program – FRDA II. Greg is the champion for energy projects such as this project for the Penticton Indian Band.

### Ron Monk, M.Eng., P.Eng.

Ron Monk leads KWL's Energy sector. He has extensive experience working with First Nations on energy, water and salmon enhancement projects. His background includes feasibility, design and construction of small hydro projects in First Nation communities. Key projects include Clayton Falls Hydro (2 MW) and Kitasoo Hydro (1.7 MW). Ron led reviews of hydro potential in Canada (British Columbia, Yukon and Northwest Territories), Mexico and Brunei. He has detailed knowledge of BC Hydro's Net Metering Program (for sale of generation up to 50 kW) and their Standing Offer Program (for sale of generation from 50 kW to 15 MW). Prior to KWL, Ron held senior management positions at BC Hydro. A key accomplishment at BC Hydro was leading the 2004 Integrated Electricity Plan which included First Nations and stakeholder input.

### Kristin Wild, M.A.Sc., P.Eng.

Kristin is a mechanical engineer with experience in energy and sustainable design. She joined KWL full-time in 2011 after completing her masters in Integrated Energy Systems at the University of Victoria, with KWL sponsorship. Her experience includes energy planning and feasibility studies; hydropower project permitting and design; system modelling and optimization; district energy systems planning to construction; and sustainable building systems design. She has conducted site visits, performed hydraulic and energy transfer calculations, conducted GIS-based energy analyses, conducted piping stress analyses, and prepared design drawings and cost estimates.

### David Ward, EIT

David Ward is a recent Civil Engineering graduate from UBC. He joined KWL upon graduation and is part of the Water Supply and Treatment sector. He specializes in water treatment and has aided in the design of a number of small community water treatment plants. He also has experience in water modelling using WaterCad software. David has previous ACRS experience as part of his co-op work experience. He spent the summer of 2011 in Manitoba performing ACRS inspections on 14 communities across Manitoba. Inspections included Water and Wastewater Treatment plants, schools, and pump stations.

### Jack Lau – CAD/GIS Specialist

Jack Lau has a diploma in Architectural and Civil/Structural Drafting from Vancouver Community College and has taken various CAD/GIS application courses at BCIT and ESRI Canada. He has 17 years of varied experience and is a skilled technician proficient in many programs, including, AutoCAD Map3D, and AutoCAD Land Development, ArcGIS, and Spatial Analyst. He is also skilled in graphics design, cartography and the use of database applications, such as Microsoft Access. Along with his technical experience, Jack is also familiar with various municipal drawing standards and practices and coordinating with project leaders ensuring QA/QC with all deliverables.



MINISTRY OF ABORIGINAL RELATIONS  
AND RECONCILIATION  
BRIEFING NOTE

October 22, 2014  
Ref. No. 35579

File: 280-20

I Prepared for the **DECISION** of Honourable John Rustad, Minister.

II **ISSUE:** Funding allocation for First Nation Clean Energy Business Fund applications – September 2014 intake.

III **BACKGROUND:**

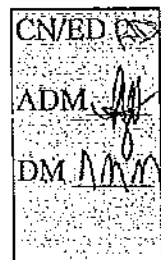
The *Clean Energy Act*, which received royal assent on June 3, 2010, includes provisions for the First Nation Clean Energy Business Fund (FNCEBF). The FNCEBF allows for the Province to provide funding to support First Nations' participation in the clean energy sector. The FNCEBF provides capacity funding and equity funding to build capacity in First Nations communities and to assist First Nations to invest in clean-energy projects and infrastructure, respectively.

FNCEBF supports First Nations using an application driven process where First Nations may apply for up to a maximum amount of \$50,000 for Capacity Funding and up to a maximum amount of \$500,000 for Equity Funding. Applications are reviewed three times a year at the end of February, May and September.

Since April 2011, the fund has provided more than \$5.1 million to over 90 First Nation communities throughout British Columbia.

IV **DISCUSSION:**

s.13,s.16,s.17



The September 2014 Intake:

The FNCEBT Review Panel reviewed a total of 20 applications in this intake which totalled \$1,197,474 in funding requests (see Appendix 1). Of those 20 applications, 19 applications are requests for Capacity Funding to complete Community Energy Plans (CEP) and feasibility studies. NR  
NR

• NR

Appendix 1 provides an overview of the projects submitted to the ministry for the September 2014 intake.

V OPTIONS;  
s.13,s.16,s.17

s.13,s.16,s.17

VI RECOMMENDATION: s.13  
s.13,s.16,s.17

  
Honourable John Rustad, Minister  
Ministry of Aboriginal Relations and Reconciliation

Nov. 26, 2014  
Date

Approved/Not Approved

Appendix 1: May 2014 Intake – FNCEBF Recommendations

Lindsay Wood, Senior Project Advisor, 250-356-8759  
35579-FNCEBF September 2014 Intake 20141024.docx

APPENDIX 1 - Sept 2014 Intake						
OPTION 1						
1 Equity Application and 4 Capacity (Feasibility Studies >75%) Applications				\$619,960		
First Nation/Prop onent NR	Score	Ask	Recommend ation	Project Type	Project Name	Description
Penticton Indian Band	78%	\$ 50,000	\$ 40,000	Pre-Feasibility	Penticton Indian Band Hydroelectric and Small Wind Power Assessment	Feasibility study will assess the possibility of a hydroelectric project at the Okanagan Lake Dam with a fish ladder to provide access to the lake, and wind project for community power. Financially viability will be identified and recommendations will be put forward on how to proceed further with development.
NR						

Page 21 to/à Page 24

Withheld pursuant to/removed as

NR