

## THE DISTRICT OF HUDSON'S HOPE

**REPORT TO:** Mayor and Council  
**SUBJECT:** Clerks and Corporate Officers Forum  
**DATE:** October 22, 2015  
**FROM:** Dwylla Moraice Budalich, Deputy Clerk

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### INFORMATION:

I recently attended a workshop for Clerks and Corporate Officers in Vancouver from October 14-16, 2015. The workshop include various topics such as:

- Freedom of Information and Protection of Privacy Act
- Meetings, Agendas, Procedures, and Minutes
- Working with Your Board and Council
- Citizen Engagement Tools for Local Govts with Limited Resources
- Understanding Privacy Impact Assessments

A few housekeeping things to note for council:

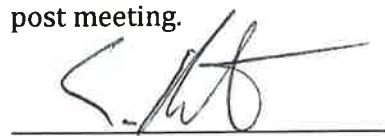
- No use of personal email addresses only use District of Hudson's Hope assigned email addresses. Emails are considered Public Records.
- Agenda items are to be included in the package. Late items are only to be added if they are time sensitive. If not time sensitive then they are added to the next regular council meeting. Deadline for submissions are Thursday before the scheduled meeting date.
- For In-Camera meetings, only items on the agenda can be discussed. Additional items that need to be discussed much go on the next regular council meeting agenda or the next in-camera agenda.

Report prepared by:

  
Dwylla Moraice Budalich, Deputy Clerk

### Administrator's Comments

In regard to Agenda Items, I would add that: I value the expediency of business in accepting agenda items and I don't see a real problem in accepting agenda additions especially the additions that do not require a motion and are for information purposes, though I would note that a written report be included with a verbal report from the Mayor and Council so as to include in the agenda package, post meeting.

  
Tom Matus, CAO

SR9

## Clerk

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**From:** ~~VI & Coast Conservation Society~~  
**Sent:** Tuesday, October 13, 2015 11:48 AM  
**To:** VI & Coast Conservation Society  
**Subject:** Request - Declare 'A Day For Our Common Future', December 11th 2015  
**Attachments:** Proclamation, A Day For Our Common Future, Dec 11 2015.pdf

To: Local and Regional Governments, British Columbia

c.c.: BC Members of the Legislative Assembly

Members of Parliament across Canada *(as of Oct. 20th)*

Re: 'A Day For Our Common Future', December 11th 2015

October 12, 2015

Dear Mayor & Council, and Regional Directors,

Thanksgiving seems appropriate to again invite support for sustainable development and our proposed December 11th' Proclamation, 'A Day For Our Common Future'.

Just two months away, December 11th is the day the United Nations formally received the first global sustainable development report from the World Commission on Environment and Development in 1987. And this year December 11th is also the last day of the UN Paris Conference, which many governments and nations are marking as a turning point in global efforts to address climate change.

In 2014 the Province of British Columbia and 15 BC cities signed our Proclamation, which translates to support from governments representing approximately 4,658,000 BC residents, 13% of Canada's population. With this in mind we are reaching out across BC and Canada this year, to similarly invite expressions of support and community initiatives for sustainable development.

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# **‘A DAY FOR OUR COMMON FUTURE’**

**DECEMBER 11TH, 2015**

## **PROCLAMATION**



**WHEREAS:** *our long-term economic, social, ecological and cultural goals form the four pillars of sustainable development,*

**WHEREAS:** *the UN General Assembly formally adopted the tenets of sustainable development on December 11<sup>th</sup> 1987 when Norwegian Prime Minister Gro Harlem Brundtland presented the report, ‘Our Common Future’, on behalf of the World Commission on Environment and Development,*

**WHEREAS:** *sustainable development is defined as, "Development that meets the needs of the present without compromising the ability of future generations to meet their own needs",*

**WHEREAS:** *Canada played a critical role in fostering and writing Our Common Future,*

**WHEREAS:** *recent reports warn that adverse effects of climate change are likely to undermine sustainable, and all development efforts and goals - recommending increased support for adaptation, mitigation, inclusive green growth and climate-smart development,*

**WHEREAS:** *communities are most able to meet their needs by practicing sustainable development which incorporates a resilient resource base with a secure, long-term food and water supply,*

**WHEREAS:** *efforts to protect our lands and waters include measures for conservation, biodiversity, habitat and watershed protection that integrate renewable resource, climate-adaptive and sustainable development initiatives,*

**WHEREAS:** *a healthy approach to sustainable development will find ways to bring a balanced growth that meets economic, social, environmental and cultural goals for everyone's benefit,*

**& WHEREAS:** *residents, businesses, governments and communities have opportunity to implement recommendations that balance our society's needs, and nature's needs, while furthering global goals for sustainable development.*

**NOW THEREFORE,** ....., *hereby proclaims December 11th 2015, to be known as:*

**“A DAY FOR OUR COMMON FUTURE”**

*Dated*

*Vancouver Island & Coast Conservation Society, Box 333, Cedar, B.C., V9X 1W1, <www.viccs.vcn.bc.ca>*

## ENVIRONMENTAL PROTECTION NOTICE

### Application for Permit amendment Under The Provisions of the *Environmental Management Act*

We, British Columbia Hydro and Power Authority, 22154 Canyon Drive, Box 359, Hudson's Hope, BC, V0C 1V0, intend to submit this amendment application to the Director to amend Permit 14556, issued March 27, 1997 and last amended October 22, 2010, which authorizes the discharge of refuse to ground and contaminants to air from a Power Generation operation.

The land upon which the facility is situated and the discharge occurs is District Lot 1028, Peace River District, located 21 km west of Hudson's Hope.

The amendment requests that the following conditions be changed from a maximum rate of discharge of 568 tonnes per year (section 1.1.1) to a maximum rate of discharge of 1000 tonnes per year.

Any person who may be adversely affected by the proposed amendment and wishes to provide relevant information may, within 30 days after the last date of posting, publishing, service or display, send written comments to the applicant, with a copy to the Regional Manager, Environmental Protection at 325 – 1011 Fourth Ave, Prince George, V2L 3H9, or email [authorizations.north@gov.bc.ca](mailto:authorizations.north@gov.bc.ca). The identity of any respondents and the contents of anything submitted in relation to this application will become part of the public record.

Dated this 13 day of July, 2015.

  
(Signature)

Contact person Vicki Burt

Telephone No. 250-783-5039



**Prince Rupert**  
Gas Transmission Project

# PRGT Project

# **Activity Update #29**

October – November 2015



## PRGT Project Activity Update #29

### Field Work

For the onshore part of the project route, priority flagging work is set to take place over the coming weeks. This program is expected to kick off as early as October 15 and will cover 50kms of route on each of PRGT's three onshore construction spreads as well as flagging for camp sites.

Many of the environmental field programs have now been completed. Work still taking place includes the environmental features flagging program, which began in September and is now in full swing, and some of the fall fisheries work. Environmental studies and assessments continue on the marine facilities as well as ancillary and mix bury cover sites.

For questions related to this and any field work, please don't hesitate to contact us using the phone number or email address provided at the end of the newsletter.

### Management Plans

Over the past year, PRGT has been developing a series of management plans in accordance with the commitments made in PRGT's Environmental Assessment Certificate (EAC) and the Conditions attached to the EAC. These plans are designed to manage potential effects identified in the Environmental Assessment (EA), address various topics related to traffic and access, socio-economic effects, and environmental management among many others. We have been engaging with the communities, Aboriginal groups, and affected stakeholders on many of these plans and have integrated this feedback.

### BC Supports PRGT

For years, PRGT has worked hard to be a trusted neighbour, building strong relationships with communities surrounding the project. We're pleased to have received a number of expressions of support from local governments and Chambers of Commerce across the pipeline corridor. These letters focus on the local benefits communities have and can expect to receive as a result of the project and speak to the constructive engagement PRGT has enjoyed with communities over the past two and a half years.

On behalf of the project, we would like to extend our greatest thanks to the communities we work with for their support.

To view some of the letters received, or to show your support for PRGT, please visit our website at:

<http://www.princerupertgas.com/b-c-supports-prince-rupert-gas/>



## In The Community

### Oct 14-16: International LNG in BC Conference

TransCanada will be participating in this year's International LNG in BC Conference, held at the Vancouver Convention Centre. Look for TransCanada's Greg Cano who will be speaking on the Technology & Innovation in Pipeline Monitoring panel.

### Oct 20: Pink Mountain Community Meeting

Representatives from TransCanada will be attending the Pink Mountain Community Meeting, which will be taking place at Royal Camps 147 at 1:00pm.

### Oct 24: Terrace and District Chamber of Commerce Business Excellence Awards

For the second year, PRGT will be sponsoring and attending the Business Excellence Awards in Terrace at the Terrace Sportsplex. We look forward to seeing you there!

### Oct 24: Prince George Chamber of Commerce Business Excellence Awards

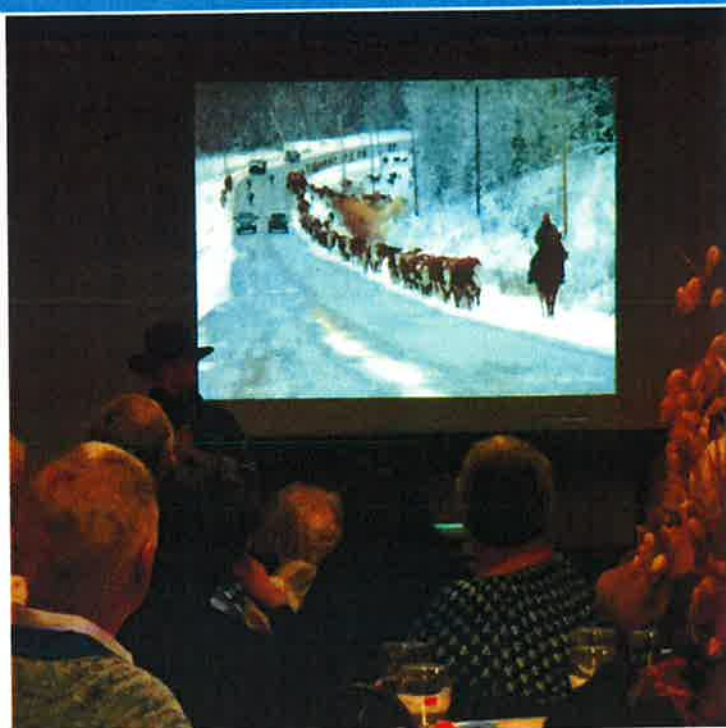
TransCanada is once again excited to sponsor the Prince George Chamber of Commerce Business Excellence Awards at the Prince George Civic Centre. Good luck to all the nominees!

### Investing in the Community

#### Hudson's Hope Historical Society Harvest Social

PRGT was proud to sponsor and attend the dinner at this year's Hudson's Hope Historical Society Harvest Social, which took place in Hudson's Hope on October 3 at the Hudson's Hope Community Hall. This well-attended fundraiser drew in over 170 members of the community, all there to support the great work the Historical Society and Hudson's Hope Museum are undertaking in the area. Proceeds from this year's event went towards restoration of the Rutledge Barn, which was recently moved to its new home near the Museum.

The event included a dinner, silent auction, live auction, as well as an interesting presentation on the history of ranching in the Peace. Several of Hudson's Hope's long-time families contributed historical photographs that depicted what ranching activities looked like before today's technology, as well as some photos that showed what more modern ranching is like.



Attendees at the Hudson's Hope Historical Society Harvest Social were treated to an interesting look at the history of ranching in the area

#### Union of BC Municipalities (UBCM) Convention and AGM

TransCanada was excited to participate in the Union of BC Municipalities (UBCM) Convention and AGM for the third year in a row. This year's conference took place September 21-25 at the Vancouver Convention Centre and saw over 2,000 delegates from municipalities across the province gather to discuss policy, pass resolutions, and network with peers. A trade show component was also included where TransCanada had a booth set up with representatives from the various proposed projects in BC.

TransCanada's BC projects also hosted a reception for local government representatives from across the five project routes. The reception was very well attended and provided a great opportunity to connect with the many stakeholders impacted by our projects throughout the province. Thank you to all who attended!



Coastal GasLink Community Relations Lead Jaimie Harding (left) and PRGT Community Relations Liaison Catie Underhill (right) chat with Mayor Dale Bumstead of Dawson Creek at this year's UBCM Convention and AGM

## Clerk

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**From:** Coastal GasLink <coastalgaslink@transcanada.com>  
**Sent:** Tuesday, October 20, 2015 3:35 PM  
**To:** Clerk  
**Subject:** The Coastal GasLink Connector - October Newsletter

Greetings from the Coastal GasLink Project team! We're pleased to share our latest [Coastal GasLink Connector Newsletter](#) with you that highlights:

- Our approach to field work, and what this year's field program entailed;
- Great letters of support for our project from communities along the pipeline route;
- An update on a suggested alternate route for our project and the rationale for it;
- Our investment in Aboriginal skills training.

Also, check out [our recent blog](#) on how Aboriginal input has helped shaped the project. And if you want to learn more about LNG, [click here!](#)

Stay connected and be sure to follow us on [Twitter!](#)

Thank you for your continued interest in the Coastal GasLink Pipeline Project!

Sincerely,  
The Coastal GasLink Project Team

### Coastal GasLink Pipeline Project Ltd.



Toll Free: (855) 633-2011

e-mail: [coastalgaslink@transcanada.com](mailto:coastalgaslink@transcanada.com)

website: [www.coastalgaslink.com](http://www.coastalgaslink.com)

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To unsubscribe send a blank email to leave-tc\_cgl\_updates\_consent-11105147Y@listsrv.transcanada.com

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## What we're looking for in the field

### Wildlife, fisheries and aquatic studies

We collect data about fish, mammals, birds and frogs in order to understand their habitats, movements and other patterns to support construction planning and mitigation strategies. We recognize water and water systems as a fundamental component of the ecosystems where we operate. The protection of our water resources is critical to both the environment and our business.

### Vegetation and wetland surveys

This program collects information about the location and seasonal condition of rare plant populations. Wetland surveys gather further information on varieties of plants, surface water characteristics, soil moisture and nutrient content, soil texture and wetland classification.

### Archaeological field program

Our archaeological field program helps identify archaeological resources along the route and recommend viable alternatives for avoiding or mitigating any impacts to those resources.

Archaeological crews normally include advisors on traditional knowledge from Aboriginal communities. We have taken this same careful approach on other projects to protect artifacts and other significant resources, and this is the same care and attention we will provide along the proposed route.

### Engineering field programs

The on-the-ground engineering survey program helps us refine the construction footprint along the pipeline route. We have a great respect for the land and its unique characteristics, and our goal is to have as little disturbance as we can to the land, ensure the safety of our workers, and allow for the safe operation of construction equipment while designing a safe natural gas pipeline.

Before starting construction, we will continue work in the field to ensure Project footprint boundaries are clearly marked and all the necessary site-specific environmental and engineering information is collected and available to our workers.

## B.C. supports Coastal GasLink

### Letters of support roll in

Since the project was announced, the Coastal GasLink team has worked hard to be a trusted neighbour, building strong relationships with communities near the proposed pipeline route. The team is building on TransCanada's 65 years of experience working with communities, stakeholders and landowners near our assets. We understand the importance of sharing information and earning the support and trust of local communities.

Many community councils and business groups recently provided letters of support for the project. And, some have written to their local paper to talk about their support. This is a reflection of their trust in us, and how they view this project and the emergence of the LNG industry as a benefit to their communities.

As of the end of September, we're pleased to have received expressions of support from:

- Fort St. John & District Chamber of Commerce
- City of Dawson Creek
- Dawson Creek & District Chamber of Commerce
- District of Chetwynd
- Chetwynd Chamber of Commerce
- District of Vanderhoof
- Village of Fraser Lake
- Village of Burns Lake
- District of Houston
- Smithers District Chamber of Commerce
- District of Kitimat
- Kitimat Chamber of Commerce
- Kitimat Economic Development Association
- City of Terrace
- B.C. Chamber of Commerce
- Prince George Chamber of Commerce

### Show your support

If you'd like your community to show their support, please connect with your local council members, or Chamber of Commerce, and have them email their letter of support to: [coastalgaslink@transcanada.com](mailto:coastalgaslink@transcanada.com). Or, if you'd like to sign up to show your personal support, email: [coastalgaslink@transcanada.com](mailto:coastalgaslink@transcanada.com) (your information will not be shared).

Be sure to visit our webpage to keep track of the additional letters that come in!



Jaimie Harding (Coastal GasLink Community Relations), City of Dawson Creek Mayor Dale Bumstead, and Catie Underhill (Prince Rupert Gas Transmission Community Relations) at Union of British Columbia Municipalities Conference in Vancouver.



TRICORP students benefit from skills training in Prince Rupert.

## Donation of \$250,000 supports Aboriginal skills training and education with TRICORP in northern B.C.

TransCanada's Coastal GasLink Pipeline Project and Prince Rupert Gas Transmission Project announced a \$250,000 partnership with the Tribal Resources Investment Corporation (TRICORP) to offer skills development and training for Aboriginal people in northwestern B.C.

"We're committed to helping build stronger communities and a better quality of life for those living in northern B.C. Partnerships like this help communities take advantage of economic opportunities related to TransCanada's B.C. pipeline projects," says Rick Gateman, Coastal GasLink president. "Feedback from Aboriginal and local communities, as well as socio-economic assessments from both projects, has shown this is an important area for us to focus our efforts."

The program includes three, 10-week courses that will be offered through late 2015-2016 in northwest B.C. communities. Currently,

programs are planned for Prince Rupert and two further courses are planned in other communities within TRICORP's service area. It's expected that 42 students will get to participate.

### What's TRICORP?

TRICORP is the Service Canada delivery agent in the northwest B.C. region for the Aboriginal Skills and Employment Training Strategy (ASETS). Their programs and services are targeted to entrepreneurs to start or expand their business, as well as increase capacity to deliver quality employment programming that offers skills development and training initiatives to Aboriginal citizens living in northwestern B.C.

*The program includes three 10-week courses, and 42 students will get to participate.*

## We're on Twitter!

Coastal GasLink is excited to launch a Twitter account! Check out the new **Coastal GasLink Twitter page:** **@CoastalGasLink** and learn about the latest news on the Project. Join us and stay in the loop.

## Your input matters

If you have questions or comments about TransCanada's Coastal GasLink Pipeline Project, please contact our project team by email ([coastalgaslink@transcanada.com](mailto:coastalgaslink@transcanada.com)) or by phone at 1.855.633.2011 (toll-free).

Our website has maps, videos, past newsletters and more at [www.coastalgaslink.com](http://www.coastalgaslink.com)



reduce inappropriate hospitalizations and improve quality of life. The Northern Health seniors' action plan supports this goal.

In addition to the seniors' action plan, a sub-strategy to address end of life and palliative care has also been developed with a focus on strengthening community based services and a draft dementia care strategy is in the works. These sub-strategies will be used in conjunction with the seniors' action plan to address the needs of northern B.C. residents as they age.

For information about seniors' health services currently offered in northern B.C., visit [www.northernhealth.ca](http://www.northernhealth.ca).

**Media Contact:**

NH media line - 250-961-7724

**Curtis McKay**  
Quality Manager  
Yellowhead Road & Bridge (North Peace) Ltd.  
O: 250-262-2600 | F: 250-785-8727 | C: 250-264-8696

**RATE DESIGN APPLICATION – BC Hydro - G156-15**

**1 OBJECTION**

The RDA submission is 445 pages long. Relevant appendices are 4457 pages – over four thousand pages! The posted date was October 7<sup>th</sup> with a response date of October 14<sup>th</sup>. It is preposterous to attempt to review, understand and make a comprehensive response to such a volume of material within this period. **It can only be concluded that the BCUC has intentionally provided such an impossibly short response time in order to prevent thorough reading and responses to the materials.**

The last rate design by BC Hydro was in 2007, fully eight (8) years ago. Now, in light of BC's largest electricity project which will add 50% to BCH's debt yet only 10% to generation capacity, a project that will severely affect the Long Run Marginal Cost of power in BC, possibly for decades, ratepayers and others are expected to respond in just seven days!

If the next RDA is a further 8 years, Site C will be fully and seriously impacting LRMC and revenue requirements. **It will be too late to do anything at that point – the damage will have been done.** Even without Site C, BCH has requested and received price increases of 9% and 6 % with cost of living increases running at 2 to 3%. **Such inflation and pricing disparities constitute a dereliction of duty by BCH management, the Premier of BC, the Minister of Energy, Cabinet and the BCUC.** Adding a huge project to BC Hydro's debt, approximately 50% increase in debt, probable interest rate increases, probable unit electricity demand decreases, it is not impossible that even BC Hydro could join myriad other electric utilities in the “downward death spiral” of increasing costs, and rates and decreasing revenue.

**Deadline Extension** : It is imperative that this deadline be extended and that all interested and affected parties are made fully aware that this RDA and associated Revenue Requirements and Costs of Service during the next 20 years be fully exposed and studied thoroughly. I suggest that half to full page print ads in the newspapers be used to properly advertise the importance of this RDA process and review, with possibly flyers-inserts into BCH bills and emails sent to on-line account holders.

**2 LEADERSHIP – BCUC and BC HYDRO – “ A Vision for the Future – Deep DSM”**

BC Hydro, the Provincial Government, and Ratepayers will continue to benefit long-term, from reduced electricity use, particularly as our society evolves, being aware of climate change and energy use imperatives. **BCUC can play an essential role by directing BC Hydro to take leadership and focus on Conservation – DSM vs new supply, to meet current and long-term electricity needs.** This will involve both taking risks and large expenditures as we make a paradigm shift, such as retrofitting “electric baseboard buildings”, especially rental units where owners have no incentive to spend money on upgrades because tenants pay for utilities, and tenants have no incentive to upgrade a non-owned unit. We will need Billions of dollars but the benefits far exceed the costs. BC Hydro will be a “World-Leader”.



A second key question is “what is the most cost-effective way”?

Is an 1100 MW plant the most cost-effective? Again because it is not incremental the answer is also “NO”.

**Thus in their RDA, BC Hydro should, but fails to, necessarily exclude the proposed major project Site C, from either consideration or inclusion within the LRM. Site C should not be allowed to proceed as it contravenes BC Hydro’s own definitions of both “incremental” and “most cost-effective”. BCUC must direct BCH to identify “incremental” and “most cost-effective” alternatives.**

### 3.2.2 Factors Affecting LRM

The LRM will be significantly affected by cost of future major projects, interest rates where debt is a substantial portion of “assets”, electricity “markets” and prices, cost of competing energy sources, energy and demand growth, commitment to “green futures” where Demand-Side Management/Conservation is a social PRIORITY, demand shift as a result of rate design, economic conditions, social priorities, power market activities and bulk sales and transfers to government – particularly if facilities are built for these purposes or if past activities and facilities are re-dedicated to domestic markets, industrial co-ordination and transfers. Co-operation and co-ordination will affect LRM. **The use of embedded (average or historical) vs marginal costs will both directly and indirectly affect LRM as a result of demand impacts.**

### 3.3 Alternatives with Lower LRM Than Site C (See Exhibit C11-1b attached).

Establishing that the LRM must meet both the test of “incremental” and “least cost”, what alternatives exist?

1. **DSM** – DSM 1 through DSM 5 in the BC Hydro 2013 IRP plan. **“Deep DSM”, or DSM 5 can contribute more electricity and capacity than Site C, at half the cost and twice the number of jobs!**
2. **Small, incremental projects.** These are listed, in no particular order, in the Appendices to the IRP. Roger Bryenton & Associates has created a spreadsheet with analysis and a technical note “ranking” the projects listed in BC Hydro’s IRP. This is **Exhibit C-2 attached**. This analysis clearly demonstrates that there are in the order of 50 small projects better suited to meeting both incremental demand and lower cost/MWh. In total the small projects can add an equivalent amount of electricity for considerably less cost, and will create more than twice the number of jobs. **(Note- the cost/MWh for Site C in the IRP needs to be updated to the \$8.8 Billion presently projected, plus approximately \$2 Billion additional transmission cost to deliver the power to the principal load centers in the Lower Mainland and Vancouver Island. The total energy cost then increases to an estimated \$120/MWh (or more), not the \$85/MWh BC Hydro presently uses).**
3. **Purchase of Columbia Treaty Entitlement.** Presently sold for approximately \$30 to \$40/MWh, this power is a much less costly alternative to Site C.
4. **Repatriation of Columbia Treaty Entitlement.** BC is entitled to approx 1000 MW of capacity and 4000 GWh of electrical energy annually. Again available at a much lower cost than Site C.
5. **Use of “market” power for domestic sales.** In 2014 Powerex sold 23,000 GWh (worth \$900 million, which sounds worthwhile until this is identified as 28% of the power creating only 20% of the revenue). **That “market” sale is four times the size of Site C. Clearly this could be sold to domestic customers, and for more money!**

### 3.4 Detailed Examination of Alternatives by BC Hydro – “Incremental” and “Lowest-Cost”

From the analysis above, it is clear that BC Hydro has not demonstrated transparency or professional integrity when it comes to presenting “incremental” or “least cost” alternatives and chooses to ignore both the incremental and least-cost alternatives of “Deep DSM” and/or smaller projects. **A directive from BCUC to BCH is essential to the RDA. It must clearly specify that all options must be detailed and ranked to develop accurate Revenue Requirements over the next 20 years (at least), not just 3 to 5 years.**

reduces both energy and capacity requirements? Smart meters instantly identify, or can be used to identify demand if a “demand” module is active in the meter.

Peak usage can be shifted using simple control modules – larger electric water heaters, stoves and dryers can be scheduled and peaks reduced significantly during high consumption. Coloured displays can alert users as to green, amber and red (peak) conditions to help educate people on energy use. **Pilot control system programs need to be implemented.**

### **New Construction**

While not in a Rate Structure, “connection fees” for larger services can be included in the effective management and signal the cost of new supply, particularly peak demand costs. Thus 400 amp service for spa’s, air conditioning, electric space or floor heating, or other large loads could have a greater “connection fee” than 200 amp service, reflecting the \$3000/kW capacity cost borne by BCH. To reduce this fee, BCH could offer a “load management module” that could effectively reduce the 400 amp service to perhaps a 200 amp equivalent, which could be included in the cost of the service and could result in possibly no cost to the customer.

Retrofitting of or fuel substitution (with Fortis Gas probably) for electrically heating buildings, 33% of the present housing stock, especially tenanted structures can achieve **substantial savings** but the problem of split-incentives must be addressed where tenants pay utilities so landlord does not want to retrofit and tenant does not want to spend on non-owned building. (This same problem occurs in most small businesses and must be addressed). **A Pilot program for rental buildings needs to be implemented.**

**An aggressive DSM program targeting electrically heated buildings needs immediate implementation. This is particularly important in communities with no or limited access to alternative heating methods – Vancouver Island, Queen Charlotte Islands, and non-natural gas supplied locales.**

LED lighting reduces energy by up to 90% with motion sensors, and in commercial buildings also reduces the HVAC load. **A pilot LED program, if not in place, should be implemented.**

In the letter dated Jul 06 2015 the Minister of Energy asked five questions about RIB rates: two are

- What is the potential for existing Demand Side Management programs to mitigate these impacts? And
- Within the current regulatory environment, what options are there for additional Demand Side Management programs, including low income programs?

The Minister also commented, “This request for a BCUC report (on RIB rates) would not preclude either utility from seeking approval to launch or expand Demand Side Management programming prior to the heating season this fall.” **A question to BC Hydro, “What options are available and what progress has been accomplished to launch or expand DSM programming?”**

### **5.3 General Service COS**

**BCUC needs to direct BCH to fully explore all avenues of energy and peak reduction and to continue, to expand and where not present, to aggressively implement a series of conservation programs and energy management assistance to further dramatically reduce energy use and demand.** “Many general service customers were unable to achieve significant electricity savings” (RDA Appendix – Review of GS Savings) despite having an energy manager indicates a clear need for support and co-operation, either through BCH or privately.

### **5.4 Industrial and Transmission Service COS**

**BCUC needs to direct BCH to “partner” with customers, to work with customers to provide the end-use functions needed at the least-cost options.** This may require solutions such as BCH using customer-supplied

## Exhibit C11-1b:

### The "Most Cost-Effective Way to Meet Incremental Customer Demand: DSM, not Site C"

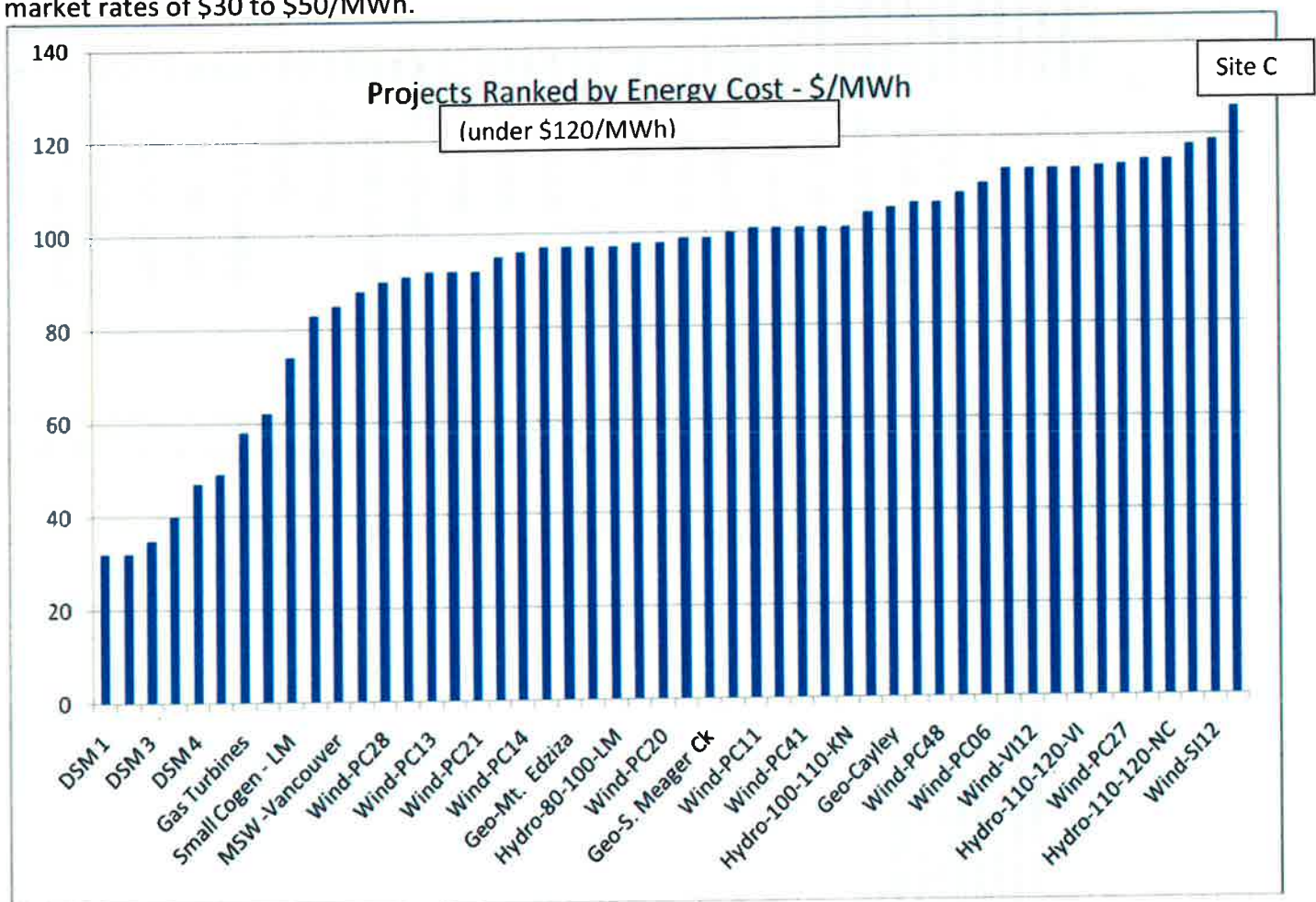
Roger Bryenton & Associates – Intervener BCHydro RDA

#### "Electricity Conservation and Small Projects vs Site C: Less Cost - More Jobs"

Roger Bryenton & Associates, 2015

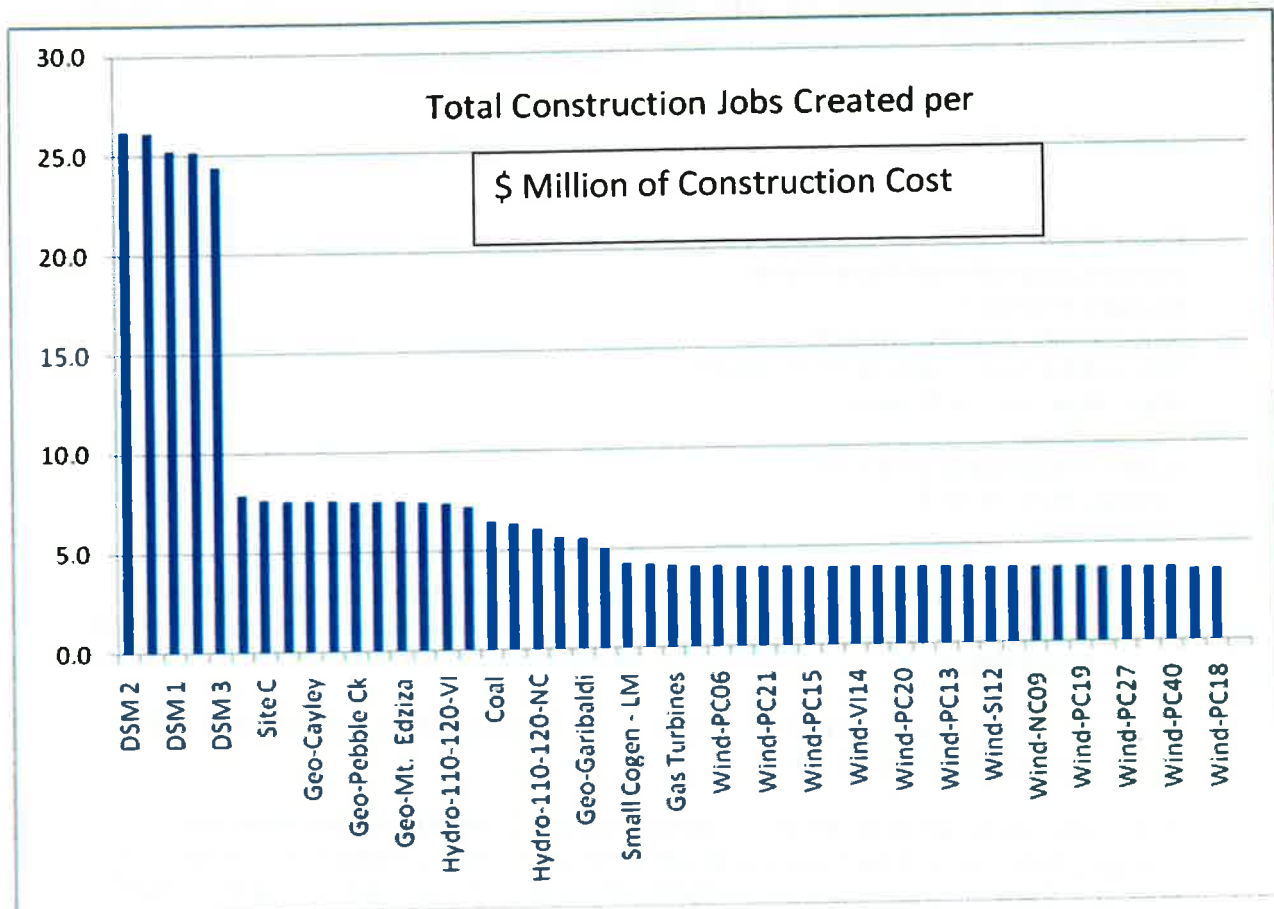
**Conservation is Cheaper than Site C** - Using BC Hydro's own numbers, the Cost of Site C, is now estimated to be \$8.8 Billion. This is \$126/MWh or 12.6 cents/kWh. Electricity conservation, or Demand Side Management (DSM) can provide the equivalent electricity at less than half this cost, as low at \$32/MWh; up to \$49/MWh for DSM 5.

**New Supply from Small Projects is Cheaper than Site C** - If and when new supply is needed, there are many projects available under \$126/MWh, including repatriation of the Columbia River Entitlement at market rates of \$30 to \$50/MWh.



**Almost Twice the Power of Site C at Half the Cost**— The chart below shows that Electricity Conservation, DSM, can provide more power than Site C. DSM 1, BC Hydro's base case conservation, provides 20% more power than Site C at less than half the cost. DSM 5, BC Hydro's greatest conservation scenario provides **almost twice** the electricity of Site C annually at less than half the cost. DSM also provides as much capacity as Site C, to meet peak demands when needed; a few hours each year.

**Electricity Conservation – More Jobs and at Less Cost.** The chart below shows that up to four times the jobs are created from Conservation when compared with Site C for the same expense; more than 26 jobs per million dollars for DSM and 7 jobs per million dollars for Site C.



**Site C is an expensive solution to a problem that does not exist.** Conservation will reduce the demand, small projects can add electricity supply if and when needed, all at much lower cost than Site C.

We do not need to flood the Peace Valley. We need a "Change in Thinking"

Roger Bryenton 2015

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## NEWS RELEASE

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For immediate release  
October 23, 2015

### **Northern Health launches photo contest to promote healthy aging**

Healthy aging is the theme of a photo contest being run across northern B.C. by Northern Health's Healthier You Promotions and Engagement committee until November 8, 2015. The contest will draw attention to healthy aging through a focus on social connectedness and creating welcoming and inclusive communities.

"Northern Health's community consultation on healthy aging and seniors' wellness found that social connection and community involvement are pivotal to health," said Dr. Sandra Allison, Chief Medical Health Officer. "This, combined with a population in northern B.C. that is aging more rapidly than in the rest of the province, is why the committee is focusing on healthy aging in 2015 and 2016 and why we've launched a photo contest to support this focus."

Northern B.C. residents are encouraged to submit photos that depict healthy aging for a chance to win weekly prizes, as well as a grand prize. With a different theme each week, the contest will encourage people to show how their communities are inclusive, promote engagement for all ages, foster volunteerism and support strong relationships.

At the end of the contest, the photographs submitted by residents that best capture the theme of healthy aging and social connectedness will be turned into posters and materials that will be distributed to local health units.

In addition to inviting northern B.C. residents to share their photos for their chance to win, Northern Health staff will also share information via the Northern Health Matters blog and social media channels about:

- The health benefits of social inclusion;
- Removing barriers to social isolation;
- Fostering intergenerational relationships; and
- Aging with dignity, respect and purpose.

The photo contest can be accessed via <http://blog.northernhealth.ca/connect>. All photos submitted by November 8, 2015 will be eligible for the grand prize.

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