PART 8 BUSINESS LIAISON PROGRAM

BC Hydro established a business liaison program in 2009 to:

- Update the business community on the status of the Project
- Inform and engage the B.C. business community on future Site C business opportunities

To meet the objectives of the program, a business directory was established, and business information sessions were conducted.

Site C Business Directory

The Site C Business Directory provides businesses with information about possible business opportunities with the Project. Registered companies receive updates via email on potential business opportunities as they arise, including notifications about events such as Site C Business Information Sessions. As of November 30, 2012, there were 512 companies registered with the Site C Business Directory. The following material is below:

- Site C Business Directory – Background and Registration Forms
- Site C Business Directory – Aboriginal Businesses Registration Forms

Site C Business Information Sessions

Business Information Sessions on the Project were held in the communities of Chetwynd, Dawson Creek, Fort St. John, Prince George, and Vancouver in fall 2011 and fall 2012. An additional session in the District of Hudson's Hope was added in fall 2012. To reach the maximum number of businesses during these sessions, BC Hydro partnered with the British Columbia Chamber of Commerce, the Business Council of British Columbia, Initiatives Prince George, the Northern B.C. Construction Association, Northern Development, and local chambers of commerce.

The following reports are below:

- Site C Business Information Sessions Summary Report – December 2011
- Site C Business Information Sessions Summary Report – December 2012

SITE C | CLEAN ENERGY PROJECT

BUSINESS DIRECTORY

BACKGROUND

Site C is a proposed third dam and generating station on the Peace River in northeast B.C. BC Hydro is taking a stage by stage approach to the evaluation of the proposed project and is currently in Stage 3, Environmental and Regulatory Review.

Stage 3 includes independent provincial and federal environmental and regulatory review processes. An environmental and regulatory review of Site C will include further opportunities for consultation and input by the public, First Nations, stakeholders and communities, as well as the Province of Alberta and Northwest Territories.

The Site C Business Directory is intended to provide businesses with information about possible business opportunities with the proposed project.

Companies will receive updates, via email, on potential business opportunities as they arise. Information collected for use in the directory will not be sold, however collected information may be shared with other BC Hydro projects to provide updates on other potential business opportunities. It may also be shared with contractors currently involved in Stage 3 activities.

Registration with the directory is voluntary and will not automatically qualify businesses for future bids. Companies are advised to do their due diligence and follow normal business practices in order to seek out Request for Proposals (RFPs) and Request for Qualifications (RFQs) relating to the proposed project. If you have any questions regarding the business directory, please contact sitec@bchydro.com.

SECTION 1 - BUSINESS CONTACT INFORMATION

Please fill in the following blanks with your company's contact information. *Required Information

***Company Name:**	

***Primary Business Contact Information**

***Name:**	Position:
*Address:	*City:
*Province:	Postal Code:
*Phone: Ext:	Fax:
Cell:	*Email:

Secondary Business Contact Information

Name:	Position:
Address:	City:
Province:	Postal Code:
Phone: Ext:	Fax:
Cell:	Email:

Website:

SITE C | CLEAN ENERGY PROJECT

SECTION 2 - CATEGORIES

Please indicate which category you would like to be listed under in the business directory.
Check all that apply.

GENERAL

- ☐ Association
- ☐ Business Services
- ☐ Fencing
- ☐ Furniture
- ☐ Labour
- ☐ Landscaping
- ☐ Logistics
- ☐ Manufacturing
- ☐ Occupational Health and Safety
- ☐ Office Supplies
- ☐ Procurement/Project Management
- ☐ Real Estate/Property Management
- ☐ Security/Surveillance
- ☐ Signage/Printing
- ☐ Telecommunications
- ☐ Traffic control
- ☐ Training
- ☐ Transportation (flight)
- ☐ Transportation (ground)
- ☐ Transportation (marine)
- ☐ Waste Management/Disposal
- ☐ Other: _____

CONSTRUCTION & ENGINEERING

- ☐ Civil Engineering
- ☐ Concrete Forming
- ☐ Cranes
- ☐ Demolition/Explosives
- ☐ Drilling/Geotech Exploration
- ☐ Electrical
- ☐ Engineering Monitoring
- ☐ Equipment/Tools Rental/Sales
- ☐ Excavation
- ☐ General Contractors
- ☐ GIS/Mapping
- ☐ Hauling/Cranes
- ☐ Heavy Construction
- ☐ Hydrogeology
- ☐ Industrial Construction
- ☐ Industrial Mechanic/Millwright
- ☐ Logging
- ☐ Mining
- ☐ Piling
- ☐ Pipe Installation (water, sanitary, storm)
- ☐ Portable Structures
- ☐ Quantity Surveyor
- ☐ Residential Construction (housing)
- ☐ Road Construction
- ☐ Roofing
- ☐ Scaffolding
- ☐ Seismic Modelling and Analysis
- ☐ Shotcrete
- ☐ Site Assessment/Site Remediation
- ☐ Supplier _____
- ☐ Surveying
- ☐ Waste/Water Treatment
- ☐ Welding
- ☐ Other: _____

COMMUNICATIONS & DESIGN

- ☐ AV/Photography
- ☐ Consultation/Strategic
- ☐ Graphic Design
- ☐ Transcription Services
- ☐ Writing/Editing
- ☐ Other: _____

ENVIRONMENT SERVICES

- ☐ Agriculture
- ☐ Analytical Chemistry
- ☐ Climate/Air Quality
- ☐ Environmental Assessment and Monitoring (land, water or air)
- ☐ Environment Full Service
- ☐ Fish/Aquatics
- ☐ Forestry
- ☐ Heritage/Archaeology
- ☐ Laboratory
- ☐ Noxious Weed Control
- ☐ Recreation
- ☐ Socio-Economic
- ☐ Water Quality
- ☐ Wildlife/Vegetation
- ☐ Other: _____

HOSPITALITY

- ☐ Accommodation
- ☐ Catering
- ☐ Cleaning
- ☐ Event Coordination
- ☐ Meetings/Venues
- ☐ Workforce Camps
- ☐ Other: _____

If you are an Aboriginal business and would like to learn about BC Hydro's procurement guidelines for Aboriginal businesses, please view the Aboriginal Business Distinction document.

Please send completed form to:

Site C Clean Energy Project
PO Box 2218, Vancouver
British Columbia V6B 3W2

Fax: 604 623 4332
Toll-free: 1 877 217 0777
Attention: Business Directory

sitec@bchydro.com
bchydro.com/sitec

BC hydro
FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

BUSINESS DIRECTORY ABORIGINAL BUSINESSES

ABORIGINAL BUSINESS DISTINCTION

NOTE: This document is an addendum to the Site C Clean Energy Project Business Directory.
Please review this document, provide the necessary information and submit it with the business directory registration form.

BC Hydro encourages registrants to self-identify affiliation with a First Nations of B.C.

☐ Check here to self-identify your or your company's affiliation with a First Nation of B.C. (This is voluntary)

First Nation:

BC Hydro honours its commitment to building mutually beneficial relationships with Aboriginal peoples by identifying and providing opportunities for Aboriginal businesses.

Registrants providing a voluntary Declaration of Aboriginal Ownership or Content will be assessed based on the following definitions:

The term "Aboriginal People" means an Indian, Métis, or Inuit.
The term "Business" can include:

i) a sole proprietorship;
ii) a limited company;
iii) a cooperative; or
iv) as determined by BC Hydro in its sole discretion from time to time, any other business with a substantial amount of ownership rights held by one or more Aboriginal Businesses or Aboriginal Peoples.

Proponents that are Aboriginal Businesses, contractors or suppliers; and Proponents that partner with and/or employ Aboriginal people, will be asked to provide the following information to demonstrate the extent of Aboriginal inclusion in performing the Work.

If a business is a sole proprietorship, provide the name of the Aboriginal owner;

a) If the business is a corporation, provide sufficient information to demonstrate that at least 51% of the equity is directly owned by one or more Aboriginal businesses or Aboriginal persons;
b) If the business is a partnership or joint venture, provide sufficient information to demonstrate at least 51% of the ownership rights are directly held by one or more Aboriginal Business or Aboriginal persons;
c) If an Aboriginal Business has six or more full-time employees at the date of submitting a Proposal, and at least one-third are Aboriginal persons, provide the names of the Aboriginal persons; and date of employment.

If you are an Aboriginal sole proprietorship, please read and consent to the following privacy statement:

I consent to the use of my personal information by BC Hydro for the purpose of contacting me and keeping me updated about potential business opportunities related to the potential Site C Clean Energy Project. **For purposes of the above,** "my personal information" includes name, mailing address, office, cell and fax numbers, webpage and email address, in connection with the fact that I am an Aboriginal sole proprietorship, as per the information I provide.

Signature:	Date:

*Any personal information you provide to BC Hydro on this form is collected and protected in accordance with the **Freedom of Information and Protection of Privacy Act**. BC Hydro is collecting information with this form for the purpose of its Site C Clean Energy Project and related energy resource options in accordance with BC Hydro's mandate under the **Hydro and Power Authority Act**, the BC Hydro Tariff, the **Utilities Commission Act** and related Regulations and Directions. If you have any questions regarding the Site C Clean Energy Project, and/or the information collection undertaken on this form, please contact the Site C Clean Energy Project at 1 877 217 0777.*

SITE C BUSINESS INFORMATION SESSIONS SUMMARY REPORT

November 23 to December 1, 2011

Chetwynd

Dawson Creek

Fort St. John

Prince George

Vancouver

BC Hydro would like to thank the following business organizations for hosting the Site C Business Information Sessions:

BC CHAMBER OF COMMERCE

Business Council of British Columbia

Dawson Creek & District CHAMBER OF COMMERCE

CHETWYND CHAMBER OF COMMERCE

Fort St. John & District Chamber of Commerce

INITIATIVES PRINCE GEORGE

PRINCE GEORGE CHAMBER OF COMMERCE CELEBRATING 100 YEARS

Northern Development INITIATIVE TRUST

CONTENTS

EXECUTIVE SUMMARY 4
1.0 INTRODUCTION 5
1.1 About Site C 5
1.2 Site C Business Information Sessions 6
2.0 KEY RESULTS 7
2.1 Attendance 7
2.2 Feedback Forms 7
2.3 Key Themes of Business Information Sessions 8
3.0 CONCLUSION 10
Appendix 1: Feedback Form 11
Appendix 2: PowerPoint Presentation 13

EXECUTIVE SUMMARY

- BC Hydro partnered with leading business organizations to host and promote five Site C Business Information Sessions in the fall of 2011.
- The locations for the Site C Business Information Sessions included:
    - Chetwynd, November 23, 2011
    - Dawson Creek, November 24, 2011
    - Fort St. John, November 24, 2011
    - Prince George, November 29, 2011
    - Vancouver, December 1, 2011
- A total of 372 people attended the Site C Business Information Sessions in the five B.C. locations, based on attendee sign-in forms.
- A total of 92 feedback forms were received from attendees of the Site C Business Information Sessions, representing a total response rate of approximately 25%.
- Attendees were asked to rank each presentation topic on a scale of 1 to 5, where 1 was "Not Informative" and 5 was "Very Informative".
    - The majority of respondents ranked each of the presentation topics in the 4-5 range on the 5-point scale.
    - Just over 93% of respondents ranked the Site C Project Update as a 4 or 5, while 91% of respondents gave the same ranking to the Project Components Overview. Approximately three-quarters (76%) ranked the Procurement Update as a 4 or 5 on the 5-point scale.
- The feedback forms also found that 95% of respondents said they would be interested in attending a Business Information Session in the future.
- A total of 53 individuals signed up to the Site C Business Directory as a result of the business sessions.
- Key themes that emerged from the sessions included:
    - Local business opportunities
    - Small business participation
    - Timing of early market engagement
    - Initial procurement opportunities
    - Impact of trade agreements on Site C procurement
    - First Nations opportunities
    - BC Hydro's energy planning process
    - Potential regional benefits
- BC Hydro intends to hold additional Business Information Sessions once the procurement planning process is advanced and additional information regarding upcoming procurement is available.

1.0 INTRODUCTION

The following report provides a summary of the Site C Business Information Sessions that were held in five B.C. communities between November 23 and December 1, 2011.

1.1 About Site C

The Site C Clean Energy Project (Site C) is a proposed third dam and hydroelectric generating station on the Peace River in northeast B.C. It is being proposed as part of BC Hydro's overall program to invest in and renew the province's electricity system.

Subject to approvals, Site C would provide up to 1,100 megawatts of capacity, and produce about 5,100 gigawatt hours of electricity each year – enough energy to power the equivalent of 450,000 homes per year in B.C.

Site C is currently in the environmental and regulatory review stage, which includes an independent environmental assessment process by federal and provincial regulatory agencies.

On September 30, 2011, the federal and provincial environmental assessment agencies released a draft agreement for a harmonized environmental assessment of Site C, including a review by a joint panel.

Based on a draft agreement, the environmental assessment process will include several public comment periods, as well as a comprehensive public hearing process that will provide opportunities for the timely and meaningful participation by the public, Aboriginal groups, governments, and other interested groups.

As part of the environmental assessment of Site C, BC Hydro will identify and assess potential project effects and opportunities to provide lasting benefits for the region and First Nations. Where effects cannot be avoided, BC Hydro will identify and evaluate options for mitigation.

The Site C project requires environmental certification and other regulatory permits and approvals before it can proceed to construction. In addition, the Crown has a duty to consult and, where appropriate, accommodate Aboriginal groups.

Site C Consultation and Engagement

BC Hydro has been consulting and engaging on the Site C project since 2007. During Stage 2, which was the consultation and technical review stage, BC Hydro held more than 120 meetings around B.C. as part of its public and stakeholder consultation program. In addition, BC Hydro has been conducting ongoing consultations with Aboriginal groups, property owners and local governments in the region. A detailed overview of BC Hydro's consultations to date is available at www.bchydro.com/sitec.

1.2 Site C Business Information Sessions

The Site C Business Information Sessions were developed to meet the following objectives:

- Update the business community on the current project status.
- Inform and engage the B.C. business community on future Site C business opportunities.
- Gather information regarding market capacity and interest (Site C Business Directory).
- Maintain awareness and interest in the project.

To ensure that the Business Information Sessions reached the maximum audience, BC Hydro partnered with the B.C. Chamber of Commerce and other leading business associations to host and promote the sessions. These business associations included the Business Council of British Columbia, Chetwynd Chamber of Commerce, Dawson Creek & District Chamber of Commerce, Fort St. John & District Chamber of Commerce, Initiatives Prince George, and Northern Development Initiative Trust.

To promote the sessions, each of the partnering business organizations distributed email invitations to their members. In addition, BC Hydro posted the dates on its website and distributed email notices to those organizations that signed up to the Site C Business Directory, and BC Hydro's Aboriginal Business Directory.

The locations for the Business Information Sessions included the following:

Date and Time	Location	Host(s)
November 23, 2011 8:30 AM – 10:30 AM	**Chetwynd** Pomeroy Inn and Suites 5200 North Access Road	• Chetwynd Chamber of Commerce
November 24, 2011 8:30 AM – 10:30 AM	**Dawson Creek** Best Western Dawson Creek Inn, 500 Highway 2	• Dawson Creek & District Chamber of Commerce
November 24, 2011 2:30 PM – 4:30 PM	**Fort St. John** Quality Inn Northern Grand Hotel, 9830 100th Avenue	• Fort St. John & District Chamber of Commerce
November 29, 2011 2:00 PM – 4:00 PM	**Prince George** Ramada Prince George 444 George Street	• Initiatives Prince George • Northern Development • Prince George Chamber of Commerce
December 1, 2011 8:30 AM – 10:30 AM	**Vancouver** Hyatt Regency Vancouver 655 Burrard Street	• B.C. Chamber of Commerce • Business Council of British Columbia

No specific procurements were discussed at these sessions due to the early stage of procurement planning. The agenda for the sessions included a Site C Project Update, an Overview of Project Components, a Procurement Update, and opportunities for questions and answers.

2.0 KEY RESULTS

2.1 Attendance

A total of 372 people attended the Site C Business Information Sessions, based on attendee sign-in forms.[1] Attendance at each session was as follows:

Location	Attendance
Chetwynd	20
Dawson Creek	45
Fort St. John	98
Prince George	74
Vancouver	135
TOTAL	372

2.2 Feedback Forms

A total of 92 feedback forms were received from attendees of the Site C Business Information Sessions, representing a total response rate of approximately 25%.

Attendees were asked to rank each presentation topic on a scale of 1 to 5, where 1 was “Not Informative” and 5 was “Very Informative”. Attendees were also asked about their interest in attending a future session.

As the table below shows, the majority of respondents ranked each of the presentation topics in the 4-5 range on the 5-point scale. Just over 93% of respondents ranked the Site C Project Update as a 4 or 5, while 91% of respondents gave the same ranking to the Project Components Overview. Just over three-quarters (76%) ranked the Procurement Update as a 4 or 5 on the 5-point scale.

Presentation Topic	1		2		3		4		5	
	n	%	n	%	n	%	n	%	n	%
Project Update (n=90)	1	1.1	1	1.1	4	4.4	30	33.3	54	60.0
Project Components (n=87)	1	1.1	1	1.1	6	6.9	36	41.3	43	49.4
Procurement (n=86)	1	1.2	5	5.8	15	17.4	32	37.2	33	38.4

**Percentages may not add up to 100 due to rounding*

The feedback forms also found that 95% of respondents said they would be interested in attending a Business Information Session in the future.

[1] Numbers do not capture late attendees and others that did not sign in at registration desk.

BC Hydro also received a total of 53 new registrations to the Site Business Directory from those attending the Business Information Sessions.

2.3 Key Themes of Business Information Sessions

Several key themes emerged from the question and answer sessions at the Business Information Sessions.

- **Local business opportunities**: Participants in the northern sessions — Chetwynd, Dawson Creek, Fort St. John and Prince George — were very interested in hearing about local business opportunities from the Site C project. BC Hydro responded to these questions by referencing the project objective for northern economic development. BC Hydro also stated it is considering other ways to increase opportunities for local suppliers. This may include holding networking sessions where successful contractors can meet local suppliers, and also sharing the Site C Business Directory list with all successful contractors.

- **Small business participation**: Participants asked BC Hydro to provide advice on how small businesses are best able to get involved with the Site C project. BC Hydro responded that it is committed to providing business opportunities for companies of all sizes, either as direct contractors to BC Hydro or as part of a larger team participating in a work package. In addition, procurements will be conducted in an open, fair and competitive process. BC Hydro also said that businesses should review materials on the Site C website to familiarize themselves with the project, and they should sign up to the Site C Business Directory. This will provide registrants with email alerts for procurements — once they are posted on BC Bid — and the directory would also be shared with all successful contractors. This would provide additional opportunities for businesses to become suppliers or sub-contractors to those firms awarded contracts.

- **Timing of early market engagement**: Some participants asked why BC Hydro was conducting market engagement so early in the process. BC Hydro informed participants that procurement planning for a project of this size and scope takes time, so market engagement needs to start early in the process. The business sessions are intended to ensure that businesses wishing to participate in procurement for Site C have sufficient time to prepare, and so that they have an opportunity to provide feedback to BC Hydro early in the process.

  BC Hydro also stated that it is currently developing a procurement plan for the construction of Site C. This means many details about the procurement process are not available at this early stage, although there was a desire at the sessions for more information. Updates are expected as the project moves forward through the regulatory process and procurement opportunities are further defined.

BC Hydro informed participants it expects that procurement activity on this project will be undertaken over several years. The process may start in late 2012 or early 2013. However, this depends on how quickly the project advances through the regulatory process.

- **Initial Procurements:** Several individuals asked BC Hydro to elaborate on the early procurements that may take place. BC Hydro informed participants that it is looking at options for procuring some of the construction work prior to environmental certification. This may include activities such as cofferdams and diversion tunnels, access roads, construction camps, and clearing. However, while initial procurements are expected to come out prior to the conclusion of the regulatory process, the work would only take place if the project receives environmental certification and other regulatory permits and approvals.

- **Impact of Trade agreements**: In several of the sessions, questions were asked about the impact of trade agreements — particularly the New West Partnership Trade Agreement — on Site C procurement opportunities. BC Hydro informed participants that, should the project be certified, there will be lots of business opportunities for local companies as part of the Site C project. However, BC Hydro procurement practices embed all legislative requirements, such as trade agreements.

- **Regional Benefits**: Participants in Chetwynd, Dawson Creek and Fort St. John asked about regional benefits associated with the Site C project, particularly recreation, housing, and preferential electricity rates. BC Hydro responded that there is a commitment from both the Province and BC Hydro to provide regional benefits as part of the Site C project. However, at this early stage of the regulatory process, the potential benefits associated with the project have not been determined. In addition, further discussions are required with local governments and First Nations.

- **First Nations Opportunities**: BC Hydro informed participants that it is committed to economic development opportunities for First Nations in the region. As a principle, BC Hydro is looking at ways to increase the participation of First Nations in the project. However, this may depend on the specific procurement and what project components are. Generally, increasing the participation of First Nations can be done through procurements that require Aboriginal content or partnership, or through direct awarding to First Nations companies. BC Hydro is also talking to Aboriginal communities about economic opportunities from this project, including skills training.

- **Energy Planning**: Several questions were asked about BC Hydro's long-term planning process, how it intends to meet future demand, and the role that other energy sources such as natural gas and clean energy projects can play. BC Hydro responded that meeting future demand requires BC Hydro to conserve more, buy more energy from IPPs, and build more through reinvestments in existing assets and the proposed Site C Clean Energy Project.

3.0 CONCLUSION

The business information sessions were held as part of BC Hydro's early market engagement work for the Site C project. Procurement planning for a project of this size and scope takes time, so BC Hydro wanted to start engaging the business community early in the process.

The business sessions were intended to update the business community on the current status of the project, and to engage businesses about potential business opportunities in the future. BC Hydro also wanted to gather feedback and learn about market capacity and interest in the Site C project.

BC Hydro intends to hold additional Business Information Sessions once the procurement planning process is advanced and additional information regarding upcoming procurement is available.

More information about business opportunities associated with the Site C project — including the Site C Business Directory — can be found online at www.bchydro.com/sitec.

APPENDIX 1: FEEDBACK FORM

BC Hydro is interested in your feedback regarding this Site C Business Information Session. Your input will be used to improve future sessions and will be considered as BC Hydro continues to engage the business community about the Site C Clean Energy Project.

This form will be collected from your table, or you may leave it at the registration desk.

1. Please indicate which business information session you attended:

Chetwynd	☐	Fort St. John	☐	Vancouver	☐
Dawson Creek	☐	Prince George	☐		

2. Please indicate how you heard about this session:

Email from:	
Chamber of Commerce	☐
Business Council of British Columbia	☐
Initiatives Prince George	☐
Northern Development Initiative Trust	☐
BC Hydro	☐
Other (please explain)	☐

3. On a scale of 1 to 5, please provide your feedback on the information presented.

a. Site C Project Update

Not Informative	1	2	3	4	5	Very Informative

Comments:

b. Construction Components Overview

Not Informative	1	2	3	4	5	Very Informative

Comments:

c. **Procurement Update**

Not Informative	1	2	3	4	5	Very Informative

Comments:

4. **What additional information would you like to receive at a future session?**

Project Engineering	☐	Environmental Assessment Process	☐
Construction Components	☐	Environmental Studies	☐
Procurement	☐	Consultation	☐
Other (please explain in comments section below)			☐

Comments:

5. **Would you be interested in attending a session in the future?** Yes ☐ No ☐

Comments:

6. **Please provide any additional feedback you have:**

APPENDIX 2: POWERPOINT PRESENTATION

SITE C CLEAN ENERGY PROJECT

BUSINESS INFORMATION SESSION

Vancouver

December 1, 2011

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

AGENDA

- Introduction
- Site C Project Update
- Construction Components Overview
- Procurement Update
- Ongoing Information and Engagement
- Concluding Remarks

BC hydro REGENERATION 50

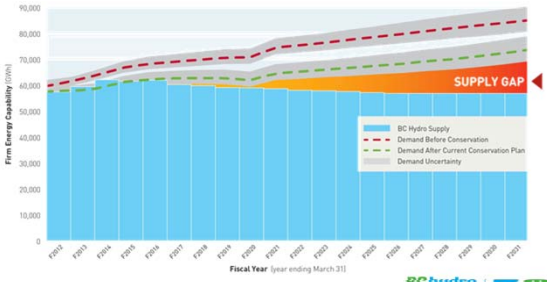
SITE C CLEAN ENERGY PROJECT

SITE C PROJECT UPDATE

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

DEMAND TO INCREASE 20-40% IN 20 YEARS



BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

MEETING FUTURE ELECTRICITY DEMAND

Conserve more **Buy** more **Build** more

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

ABOUT SITE C

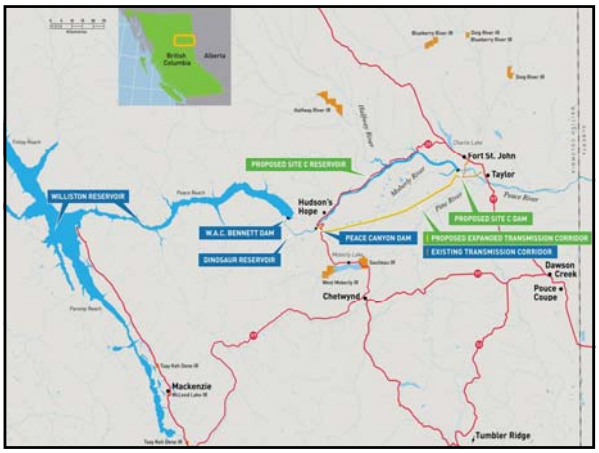
DAM

- Type: Earthfill Dam
- Length: 1,050 metres
- Height: 60 metres
- Capacity: Up to 1,100 MW
- Energy: 5,100 GWh/yr.

RESERVOIR

- Length: 83 km
- Width: 2-3 times current river

BC hydro REGENERATION 50



SITE C CLEAN ENERGY PROJECT

WHY BUILD SITE C

- Energy to power equivalent of 450,000 homes
- Cost-effective option for ratepayers
- Clean, reliable power for 100 years
- Firm energy will support renewables
- Low GHGs
- Fosters economic development
- Publicly owned

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

JOB CREATION

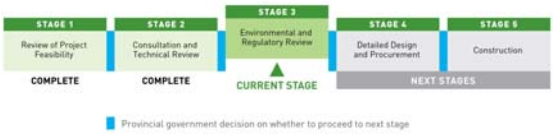
- Estimated 7,000 person-years of construction employment during seven-year construction period
- Estimated 35,000 direct and indirect jobs through development and construction stages
- Employment includes, but is not limited to, the following:

• Biologists	• Environmental techs	• Machinists
• Botanists	• First aid workers	• Operating engineers
• Carpenters	• Foresters	• Painters
• Cement masons	• Ironworkers	• Pipefitters
• Culinary workers	• Labourers	• Surveyors
• Electrical workers	• Lab technicians	• Welders

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

MULTI-STAGE EVALUATION PROCESS



BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

PROPOSED REGULATORY PROCESS

Environmental Assessment Timeline

Pre-Panel Review 24 months	Joint Review Panel & Report 8 months	Review of Panel Report and Decision 5 months	Post Decision variable
• Canada-BC Agreement • Advisory Working Group • Environmental Impact Statement (EIS) Guidelines • EIS (Application) • Working Group review of EIS Guidelines and EIS • Public comment periods	• Panel's sufficiency review of EIS • Submissions (including from Aboriginal groups) • Public Hearings • Panel Report	• Draft Referral Package Preparation (EAO) • Steering Committee Review (EAO, CEAA, RAs) • Decision by Ministers / Cabinet	• Provincial permits • Federal authorizations (Fisheries, Navigable Waters)

Aboriginal consultation and accommodation discussions

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

2011 FIELD WORK

Environment:

- Reservoir Preparation and Clearing
- Heritage Study
- Agricultural Assessment
- Fish and Aquatic
- Wildlife Studies
- Socio-economic

Engineering:

- Dam Site Investigations
- Shoreline Geotechnical investigations
- Highway 29 re-alignment

BC hydro REGENERATION 50 12

SITE C CLEAN ENERGY PROJECT

CONSTRUCTION COMPONENTS

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

SITE C PROJECT COMPONENTS

- Dam, Generating Station and Reservoir
- Construction Access
- River Diversion Activities
- Reservoir Clearing and Preparation
- Highway 29
- Transmission
- Worker Accommodation

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

DAM, GENERATING STATION AND RESERVOIR

SITE C CLEAN ENERGY PROJECT

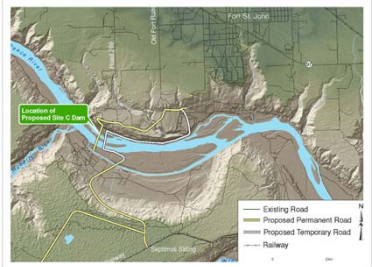
CONSTRUCTION HIGHLIGHTS

By the Numbers
• Construction will take approximately 7 years (first unit in service)
• Approx. 1 year to complete commissioning of remaining units, site reclamation and demobilization
• Approx. 38 million m³ of material excavated at the dam site
• Approx. 14 million m³ of material placed in the earthfill dam (excluding cofferdams)
• Approx. 2.4 million m³ of RCC placed
• Approx. 830,000 m³ of concrete poured
• Reservoir filling could take as little as 6-8 weeks (depending on plan)

SITE C CLEAN ENERGY PROJECT

CONSTRUCTION ACCESS

- Upgrades to existing roads
- Construction of both permanent and temporary access roads
- Temporary access bridge

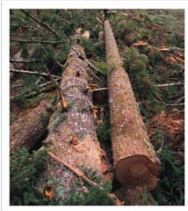


BC hydro REGENERATION

SITE C CLEAN ENERGY PROJECT

RESERVOIR PREPARATION

- Clearing and removal of timber and vegetation
- Berm at Hudson's Hope
- Habitat mitigation projects
- Recreation site development



BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

HIGHWAY 29

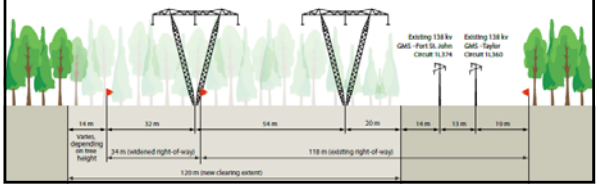
- Re-alignment of four segments of Highway 29
  - Cache Creek
  - Halfway River
  - Farrell Creek
  - Lynx Creek
- Total length of approximately 25 km
- Includes four new river crossings
- Other work may be required

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

TRANSMISSION

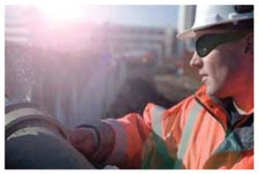
- Two new 500-kilovolt AC transmission lines
- Lines proposed to be located along existing right-of-way, currently occupied by two 138-kilovolt lines
- Right-of-way requires widening by approximately 34 metres



SITE C CLEAN ENERGY PROJECT

WORKER ACCOMMODATION

- Approximately 7,000 person-years of work for construction
- Labour force peak is approximately 1,700 in year five
- Two construction camps at dam site
- Remaining workers from local area and/or housed off site
- Additional camps may be required



BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

QUESTIONS

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

SITE C PROCUREMENT PLANNING UPDATE

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

PROCUREMENT OBJECTIVES

- Support project objectives, such as:
  - Provide economic benefits for northern communities
  - Ensure a long-term source of energy and capacity
  - Deliver cost-effective energy
- Achieve value for money for ratepayer
- Meet project schedule
- Meet project budget
- Optimally manage project risks

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

STATUS UPDATE

- Procurement for services to support Stage 3 work on the environmental assessment is ongoing
- BC Hydro currently developing a procurement plan for the construction of Site C
  - Contract packaging
  - Delivery options
- Opportunities for small, medium and large businesses

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

EARLY PROCUREMENT PACKAGES

- Early procurement packages may be issued prior to the conclusion of the regulatory process
  - Work will be subject to the project receiving environmental certification
- Early works may include activities such as:
  - Cofferdams and diversion tunnels
  - Access Roads
  - Construction camps
  - Clearing
- Timing is tied to the regulatory process

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

SCOPE OF SERVICES REQUIRED

- Construction components include, but are not limited to, the following:
  - Construction of access roads and temporary access bridge
  - Excavation work
  - Transport of materials
  - Construction and operation of worker accommodations
  - Clearing of reservoir
  - Hudson's Hope Berm
  - Construction of cofferdams and diversion tunnels
  - Construction of dam, generating station and associated structures
  - Transmission
  - Highway 29 re-alignment

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

PROCUREMENT PROCESS

- BC Hydro intends to conduct an open, fair and competitive process to procure the construction of Site C
- BC Bid is used for all public procurement processes
  - Website is: www.bcbid.gov.bc.ca

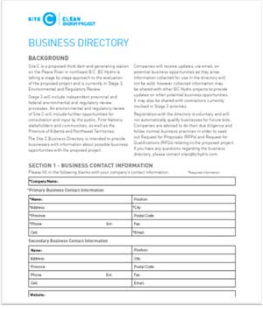
Early market engagement	Request for supplier qualifications	Development of bid documents	Request for Proposals or Tender	Evaluation of Bids	Award of contract

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

BUSINESS OPPORTUNITIES WITH SITE C

- Site C Business Directory
- Available for sign up at: **www.bchydro.com/sitec**
- Business opportunities also listed on project website
- Value for both future contractors and potential sub-contractors


BUSINESS DIRECTORY

BACKGROUND

SECTION 1 - BUSINESS CONTACT INFORMATION

36

SITE C CLEAN ENERGY PROJECT

ABORIGINAL CONTRACT & PROCUREMENT POLICY

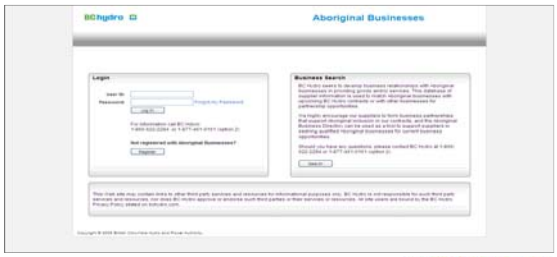
- Provides flexible procurement options to advance business opportunities for Aboriginal businesses
- Aboriginal Business Definition & Eligibility
- Aboriginal Content Evaluation Criteria
- Other Procurement Options

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

ABORIGINAL BUSINESS DIRECTORY

https://www.bcaboriginalvendors.ca/aboriginal_vendors/



BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

QUESTIONS

BC hydro REGENERATION 50

SITE C CLEAN ENERGY PROJECT

ONGOING INFORMATION & ENGAGEMENT

- Future Business Information Sessions
- Project Updates – email and website (Business and Job Opportunities)
- Ongoing consultations with Aboriginal groups, property owners, local governments, and stakeholders.
- Community Consultation Offices
- Public inquiries
  - Tel: 1-877-217-0777
  - Email: sitec@bchydro.com

BC hydro REGENERATION 50

SITE C BUSINESS INFORMATION SESSIONS SUMMARY REPORT

November 5 to November 22, 2012

Chetwynd

Dawson Creek

Fort St. John

Hudson's Hope

Vancouver

Prince George

BC Hydro would like to thank the following business organizations for hosting the Site C Business Information Sessions:

BC CHAMBER OF COMMERCE

Business Council of British Columbia

CHETWYND CHAMBER OF COMMERCE

Dawson Creek & District CHAMBER OF COMMERCE

Fort St. John & District Chamber of Commerce

PRINCE GEORGE CHAMBER OF COMMERCE

British Columbia Construction Association NORTH

INITIATIVES PRINCE GEORGE

Northern Development INITIATIVE TRUST

CONTENTS

EXECUTIVE SUMMARY 4
1.0 INTRODUCTION 5
1.1 About Site C 5
1.2 Site C Business Information Sessions 5
2.0 KEY RESULTS 7
2.1 Attendance 7
2.2 Feedback Forms 7
2.3 Key Themes of Business Information Sessions 8
3.0 CONCLUSION 11
APPENDIX 1: FEEDBACK FORM 12
APPENDIX 2: PRESENTATION 14

EXECUTIVE SUMMARY

In the fall of 2012, BC Hydro partnered with leading business organizations to hold six Site C Business Information Sessions. The District of Hudson's Hope was also a partner for the session that was held in the community.

Building on the feedback from the Business Information Sessions held in fall 2011, the purpose of these sessions was to provide participants with a status update and description of major project components, with a focus on explaining the procurement delivery method, scope of work packages and timelines for procurement activities for the proposed Site C project.

The Site C Business Information Sessions were held in:

- Chetwynd, November 5, 2012
- Dawson Creek, November 6, 2012
- Fort St. John, November 6, 2012
- Hudson's Hope, November 7, 2012
- Vancouver, November 19, 2012
- Prince George, November 22, 2012

Based on attendee sign-in forms, 313 people attended the Site C Business Information Sessions in the six locations throughout British Columbia.

BC Hydro received 79 feedback forms from attendees, representing a response rate of 25 per cent. On a scale of 1 to 5, where 1 was "Not Informative" and 5 was "Very Informative", the majority of respondents ranked each of the presentation topics in the 4-5 range on the 5-point scale. Nearly 89 per cent of respondents ranked the Site C Project Overview as a 4 or 5, while almost 94 per cent of respondents gave the same ranking to the Overview of Project Components. In terms of the Procurement Approach, about 78 per cent of respondents ranked it a 4 or 5. The feedback forms also indicated that 99 per cent of respondents said they would be interested in attending a Business Information Session in the future. And, 41 individuals signed up to the Site C Business Directory as a result of the business sessions.

Participants were encouraged to ask questions of the Site C Project Team throughout the presentation. Key themes from the Business Information Sessions included:

- Local business opportunities
- Use and availability of local labour
- Project design and construction
- Procurement process and market engagement
- Impact of trade agreements
- Potential project effects
- First Nations opportunities

1.0 INTRODUCTION

This report provides a summary of the Site C Business Information Sessions that were held in six communities throughout British Columbia between November 5 and November 22, 2012.

1.1 About Site C

The Site C Clean Energy Project (Site C) is a proposed third dam and hydroelectric generating station on the Peace River in northeast B.C. It is being proposed as part of BC Hydro's overall program to invest in and renew the province's electricity system.

Subject to approvals, Site C would provide up to 1,100 megawatts of capacity, and produce about 5,100 gigawatt hours of electricity each year – enough energy to power the equivalent of about 450,000 homes per year in B.C.

Site C is undergoing a cooperative environmental assessment by the Canadian Environmental Assessment Agency (CEA Agency) and the British Columbia Environmental Assessment Office (EAO), which will include a joint review panel process.

The environmental assessment process for Site C officially commenced in August 2011 and is anticipated to take approximately three years to complete.

As part of the environmental assessment process, BC Hydro is identifying and assessing potential project effects — environmental, economic, social, heritage and health — and opportunities to provide lasting benefits for the region and First Nations. Where effects cannot be avoided, BC Hydro is identifying and evaluating options for mitigation.

BC Hydro plans to submit its Environmental Impact Statement (EIS) for the Site C project to the federal and provincial environmental assessment agencies in early 2013. The environmental assessment process for Site C is thorough and independent. It includes multiple opportunities for timely and meaningful participation by the public, Aboriginal groups, governments, and other interested stakeholders.

The Site C project requires environmental certification and other regulatory approvals — including provincial permits and federal authorizations — before it can proceed to construction. In addition, the Crown has a duty to consult and, where appropriate, accommodate Aboriginal groups.

1.2 Site C Business Information Sessions

The objectives of the Site C Business Information Sessions in 2012 were:

- Update the business community on the current project status
- Introduce the procurement approach for the project
- Inform and engage the business community on future Site C business opportunities

To ensure that the Business Information Sessions reached a broad audience, BC Hydro partnered with the B.C. Chamber of Commerce and other leading business associations to host and promote the sessions. These business associations included the Business Council of British Columbia, Chetwynd Chamber of Commerce, Dawson Creek & District Chamber of

Commerce, Fort St. John & District Chamber of Commerce, Initiatives Prince George, Northern Development Initiative Trust and the BC Construction Association - North. For the session in Hudson's Hope, BC Hydro partnered with the District of Hudson's Hope.

To promote the sessions, each of the partnering business organizations distributed email invitations to their members and posted information on their website. In addition, BC Hydro posted the dates on its website and distributed email notices to those organizations that signed up to the Site C Business Directory and BC Hydro's Aboriginal Business Directory. Residents of Hudson's Hope received notification through the mail and the session was advertised in the Hudson's Hope Bulletin.

The dates and locations for the Business Information Sessions were:

Date and Time	Location	Host(s)
November 5, 2012 10:00 AM – 12:00 PM	**Chetwynd** Pomeroy Inn and Suites 5200 Access Road	Chetwynd Chamber of Commerce
November 6, 2012 8:30 AM – 10:30 AM	**Dawson Creek** Best Western Dawson Creek 500 Highway 2	Dawson Creek & District Chamber of Commerce
November 6, 2012 2:30 PM – 4:30 PM	**Fort St. John** North Peace Cultural Centre 10015 100th Avenue	Fort St. John & District Chamber of Commerce
November 7, 2012 10:00 AM – 12:00 PM	**Hudson's Hope** Pearkes Centre 10801 Dudley Street	District of Hudson's Hope
November 19, 2012 2:00 PM – 4:00 PM	**Vancouver** Hyatt Regency Vancouver 655 Burrard Street	BC Chamber of Commerce Business Council of British Columbia
November 22, 2012 2:00 PM – 4:00 PM	**Prince George** Ramada Prince George 444 George Street	Initiatives Prince George Prince George Chamber of Commerce Northern Development Initiative Trust B.C. Construction Association - North

The agenda for each of the sessions included the following components:

- Opening Remarks
- Site C Project Overview
- Overview of Project Components
- Procurement Approach
- Staying Informed
- Questions
- Concluding Remarks

2.0 KEY RESULTS

2.1 Attendance

Based on attendee sign-in forms, 313 people attended the Site C Business Information sessions as listed below:[1]

Location	Attendance
Chetwynd	14
Dawson Creek	22
Fort St. John	48
Hudson's Hope	17
Vancouver	137
Prince George	75
TOTAL	313

2.2 Feedback Forms

BC Hydro received 79 feedback forms from attendees of the Site C Business Information Sessions, representing a response rate of approximately 25 per cent.

Attendees were asked to rank each presentation topic on a scale of 1 to 5, where 1 was "Not Informative" and 5 was "Very Informative". Attendees were also asked about their interest in attending a future session.

As the table below shows, the majority of respondents ranked each of the presentation topics in the 4-5 range on the 5-point scale. Nearly 89 per cent of respondents ranked the Site C Project Overview as a 4 or 5, while almost 94 per cent of respondents gave the same ranking to the Overview of Project Components. In terms of the Procurement Approach, about 78 per cent of respondents ranked it a 4 or 5.

Presentation Topic	1		2		3		4		5	
	Not Informative								Very Informative	
	n	%	n	%	n	% n %			n	%
Site C Project Overview (n = 79)					9	11.4	29	36.7	41	52.0
Overview of Project Components (n = 79)					5	6.3	29	36.7	45	57.0
Procurement Approach (n = 78)	1	1.3	1	1.3	15	19.2	31	39.7	30	38.5

Responses to the feedback forms also indicated that 99 per cent of respondents said they would be interested in attending a Business Information Session in the future. BC Hydro also received 41 new registrations to the Site C Business Directory from attendees at the Business Information Sessions.

[1] Numbers do not capture late attendees and others that did not sign in at the registration desk.

2.3 Key Themes of Business Information Sessions

Participants at the Business Information Sessions were highly engaged during the presentations and well-informed about the Site C project. Questions were asked both during the presentation and informally in discussions between participants and the Site C project team. The following is a summary of key themes that emerged based on the question and answer component of the sessions, and written comments on the feedback forms.

Local Business Opportunities: A key theme from all northern sessions was how local and regional businesses would benefit from the Site C project. Some participants suggested that BC Hydro should give preference to local businesses; many expressed concern about the ability of local businesses to compete if companies are evaluated solely on price because of high labour costs in the region. Participants also wanted to know how BC Hydro would encourage the use of local businesses for the project.

BC Hydro responded by referencing one of the project objectives for Site C, which is to provide economic benefits for northern communities. BC Hydro explained that a project of this size and scope will include multiple contracts for a variety of diverse work packages. As a result, the project will require businesses of all sizes – small, medium and large; and provide opportunities for local, regional and Aboriginal businesses to participate. BC Hydro explained that the evaluation process will consider several factors such as experience, qualifications and capacity.

BC Hydro explained that trade agreements such as the New West Partnership Trade Agreement do not permit preferential treatment of specific suppliers, or of suppliers in a specific region.

BC Hydro recommended that participants sign-up for the Site C Business Directory in order to receive information about possible business opportunities. BC Hydro informed participants that the business directory will also be shared with contractors involved with project-related activities. In addition, participants were encouraged to attend future information meetings and networking sessions as these sessions would provide an important venue for companies to meet and potentially form partnerships.

Use and Availability of Local Labour: Participants attending Business Information Sessions in northeast BC – Chetwynd, Dawson Creek, Fort St. John and Hudson's Hope – asked about the use of local labour and whether a project labour agreement is being considered. Participants also asked if BC Hydro would specify a certain percentage of local labour for the project and whether there would be any recognition to account for higher wages in northeast B.C.

BC Hydro responded that there will be significant opportunities for local businesses and suppliers to participate, and therefore utilize local labour. BC Hydro also noted the demand for skilled workers in the Peace Region and the possibility of a shortage of skilled workers or a particular skill set. It was noted that the companies and businesses that would be involved in the construction of the project would be responsible for ensuring the right mix of skilled workers to complete the necessary work on schedule and within budget.

In response to questions about a project labour agreement, BC Hydro responded that a variety of options are being explored to ensure the optimization of skilled labour capacity and labour stability for the duration of the project.

Procurement Process and Market Engagement: Participants inquired about the qualification process, timelines and packages of work. Some participants asked if the project would be procured as one large contract and if companies would contract directly with BC Hydro. As well, there were questions about evaluation criteria and whether price would be the only factor.

BC Hydro encouraged participants to become familiar with BC Bid, as Site C procurement opportunities will be posted on the BC Bid website. In addition, BC Hydro recommended that participants sign-up for the Site C Business Directory in order to receive email updates on potential business opportunities as they arise.

BC Hydro explained that the Site C project can be considered a family of projects. In designing a procurement approach, BC Hydro determined that the preferred procurement strategy for Site C is to procure the project through many contracts of different sizes and different delivery models. As a result, the project will provide business opportunities for companies of all sizes, either as direct contractors to BC Hydro or as part of a larger team participating in a work package. BC Hydro also explained that it is committed to achieving value for ratepayers' dollars by structuring fair and competitive procurement processes.

As procurement activities commence, BC Hydro will explore ways to increase opportunities for local businesses to participate. This may include holding proponent information sessions to provide an overview of specific procurements, and holding networking sessions where contractors can meet with local companies.

Project Design and Construction: Many participants inquired about project design and construction techniques, as well as project components and the use and transport of construction materials within the Peace Region. For example, participants asked about the source of materials for the dam, and whether materials would be moved by truck or rail from quarries within the region.

BC Hydro provided an overview of project components, including: dam site components; off-site components; and, early works. BC Hydro described the location of off-site construction materials that would be used for the project, and the proposed transportation route of those materials. Some of the questions raised were quite specific to the community (e.g. the berm in Hudson's Hope).

Other questions were raised at multiple sessions in northeast B.C., such as questions about a permanent, third crossing of the Peace River. BC Hydro explained that upgrades to the project design were made that eliminated the need for a permanent bridge and instead a temporary access bridge during construction was identified as the best option based on cost, environmental and safety considerations, and construction schedule. The temporary access bridge would be used to connect the north and south bank work areas at the proposed dam site and would be dedicated for construction use only. The temporary bridge would be removed prior to the end of construction.

Impact of Trade Agreements: Participants attending sessions in northern B.C. inquired about the impact of trade agreements – particularly the New West Partnership Trade Agreement – on Site C procurement opportunities. Some inquired if BC Hydro could give preference to companies from B.C. over other jurisdictions. However, the New West Partnership Trade Agreement applies to BC Hydro, and does not permit preferential treatment of specific suppliers or suppliers in a specific geographic location. BC Hydro advised participants that, should the

project be certified, there would be opportunities for local and regional companies to bid on components of the Site C project.

Potential Project Effects: Participants asked about a range of potential project effects on surrounding communities. For example, participants inquired about plans for worker camps. Participants also inquired about the clearing plan for the project and the potential effect of debris in the reservoir.

BC Hydro explained that as part of the environmental assessment process, BC Hydro is identifying and assessing potential project effects – environmental, economic, social, heritage and health – and will propose measures to avoid or mitigate adverse effects. BC Hydro said that worker camps would be scaled to accommodate the project workforce. BC Hydro has developed a clearing plan that accounts for debris management in the reservoir and presented this plan for feedback as part of fall 2012 Project Definition Consultation. Participants were referred to the Discussion Guide (available online) for further details.

First Nations Opportunities: Some participants inquired about the opportunity to partner with First Nations and participate in the procurement process. Some participants asked if work would be direct awarded to First Nations companies.

BC Hydro responded that it is committed to economic development opportunities for First Nations and is looking at ways to increase participation of First Nations through its Aboriginal Procurement Policy. This may include procurements that require Aboriginal content or partnership, or through direct awarding to First Nations companies. BC Hydro encouraged Aboriginal companies to sign-up for the Aboriginal Business Directory, and advised that non-Aboriginal companies can search the directory by region, type of work, specific services and qualifications to source Aboriginal businesses to increase the Aboriginal content in their work for BC Hydro.

3.0 CONCLUSION

As part of BC Hydro's continued market engagement for the Site C project, the Business Information Sessions were intended to update the business community on the current status of the project, provide an overview of project components and to present BC Hydro's approach to procurement for the project.

Businesses need to plan ahead. The Business Information Sessions provided businesses with information regarding the scope of work included in the major procurement packages that will be required for the construction of Site C, the delivery methods and procurement timelines. By providing this information early, BC Hydro hopes that businesses will have sufficient time to prepare and respond when procurement activities start in 2013.

There are other market engagement tools that are important for businesses who want to stay informed about the project. BC Bid is the primary tool for communicating procurements undertaken by BC Hydro, and businesses are advised to become familiar with that service. In addition, businesses are advised to sign-up to the Site C Business Directory to receive project updates. Should the project receive certification and proceed to construction, BC Hydro would plan to share the business directory with contractors as a source of potential sub-contractors.

BC Hydro expects to continue to engage with the business community as the project progresses. As procurement activities are undertaken, BC Hydro plans to hold proponent information meetings when some of the contracts proceed to procurement. In addition, BC Hydro anticipates holding networking sessions to facilitate local businesses establishing partnerships for the major contracts.

More information about business opportunities associated with the Site C project — including the Site C Business Directory — can be found online at www.bchydro.com/sitec.

APPENDIX 1: FEEDBACK FORM

BC Hydro is interested in your feedback regarding this Site C Business Information Session. Your input will be considered as BC Hydro continues to engage the business community about the Site C Clean Energy Project.

This form will be collected from your table, or you may leave it at the registration desk.

1. Please indicate which business information session you attended:

Chetwynd	☐	Fort St. John	☐	Vancouver	☐
Dawson Creek	☐	Hudson's Hope	☐	Prince George	☐

2. Please indicate how you heard about this session:

Notification from:	
Chamber of Commerce	☐
Business Council of British Columbia	☐
Initiatives Prince George	☐
Northern Development	☐
BC Construction Association (North)	☐
District of Hudson's Hope	☐
BC Hydro	☐
Media (e.g. newspaper article or radio)	☐
Other (please explain)	☐

3. On a scale of 1 to 5, please provide your feedback on the information presented.

a. Site C Project Overview

Not Informative	1	2	3	4	5	Very Informative

Comments: _____

_____

b. Overview of Project Components

Not Informative	1	2	3	4	5	Very Informative

Comments: _____

_____

c. Procurement Approach

Not Informative	1	2	3	4	5	Very Informative

Comments: _____

_____

4. **Would you be interested in attending a future business engagement session?**
   (e.g., Business Information Session, Proponent Information Meeting, or Networking Session)

   Yes ☐ **No** ☐

   Comments: _____

   _____

5. **Please provide any additional feedback you have, including any additional information you would like to receive about the project:**

   _____

   _____

   _____

   _____

   _____

Optional:

Name: _____ **Company:** _____

Email: _____ **Community:** _____

Would you like to receive periodic Site C Project Updates by email? **Yes** ☐ **No** ☐

CONSENT TO USE PERSONAL INFORMATION

I consent to the use of my personal information by BC Hydro to the purpose of contacting me and keeping me updated about the proposed Site C Clean Energy Project. For the purposes of the above, "my personal information" includes name, phone number and email address, as per the information I provide.

Signature: _____ Date: _____

*Any personal information you provide to BC Hydro on this form is collected and protected in accordance with the **Freedom of Information and Protection of Privacy Act**. BC Hydro is collecting information with this form for the purpose of the Site C Clean Energy Project and related energy resource options in accordance with BC Hydro's mandate under the **Hydro and Power Authority Act**, the BC Hydro Tariff, the Utilities Commission Act and related Regulations and Directions. If you have any questions regarding the Site C project, and/or the information collection undertaken on this form, please contact the Site C Clean Energy Project at 1 877 217 0777.*

APPENDIX 2: PRESENTATION

SITE C CLEAN ENERGY PROJECT

BUSINESS INFORMATION SESSION

November 22, 2012

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

AGENDA

- Project overview
- Overview of project components
- Procurement approach
- Staying informed

BC hydro FOR GENERATIONS

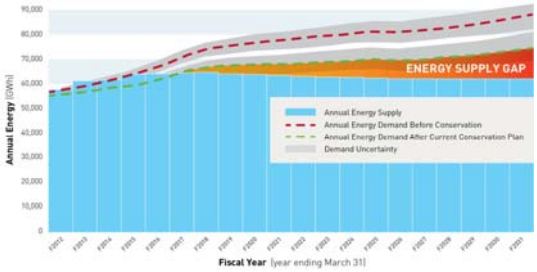
SITE C CLEAN ENERGY PROJECT

SITE C PROJECT OVERVIEW

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

ELECTRICITY DEMAND TO INCREASE



BC hydro FOR GENERATIONS

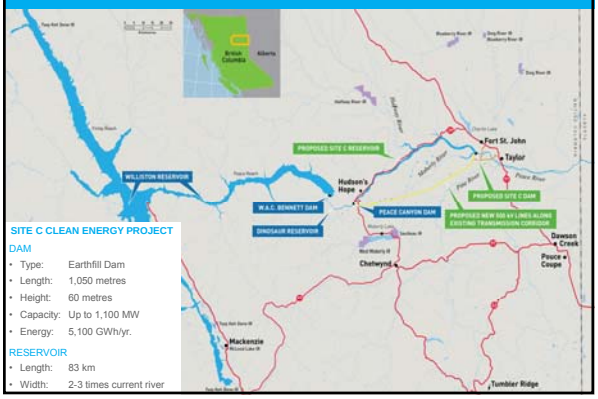
SITE C CLEAN ENERGY PROJECT

MEETING FUTURE ELECTRICITY DEMAND

- Conservation
  BC Hydro pursuing all cost-effective demand-side management
- Purchases of Renewables
  15% of current system and growing (e.g., wind, run-of-river, bioenergy)
- Re-investment in Existing Assets
  Upgrades to aging infrastructure
  Expansion of existing facilities
- New Capacity Resource
  Site C Clean Energy Project

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT



SITE C CLEAN ENERGY PROJECT

DAM

- Type: Earthfill Dam
- Length: 1,050 metres
- Height: 60 metres
- Capacity: Up to 1,100 MW
- Energy: 5,100 GWh/yr.

RESERVOIR

- Length: 83 km
- Width: 2-3 times current river

SITE C CLEAN ENERGY PROJECT

WHY BUILD SITE C

- Site C adds 5,100 GWh/yr. of energy and up to 1,100 MW of capacity
- Ability to back up intermittent resources (e.g., wind, run-of-river hydro)
- Clean, reliable power for more than 100 years
- Low GHGs per megawatt hour
- Cost-effective option for ratepayers at $87 to $95 per megawatt hour
- Fosters economic development

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

SIGNIFICANT JOB CREATION AND ECONOMIC DEVELOPMENT

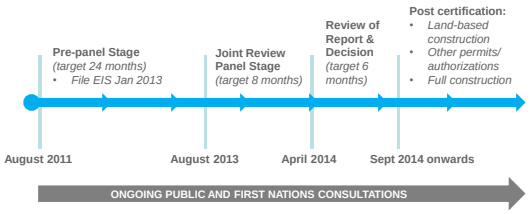
- Estimated 7,000 person-years of direct construction employment during seven-year construction period

• Biologists	• First aid workers	• Operating engineers
• Botanists	• Foresters	• Painters
• Carpenters	• Ironworkers	• Pipefitters
• Cement masons	• Lab technicians	• Security personnel
• Culinary workers	• Labourers	• Surveyors
• Electrical workers	• Machinists	• Technologists
• Environmental techs	• Office personnel	• Welders

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

PROJECT TIMELINE*



* Timeline based on regulatory schedule defined by BC EAO and CEA Agency

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

OVERVIEW OF PROJECT COMPONENTS

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

PROJECT COMPONENTS

The Site C project design includes the following key components:

DAM SITE COMPONENTS	OFF-SITE COMPONENTS	EARLY WORKS
• Earthworks	• Clearing	• Early Clearing
• Generating Station and Spillways	• Public Road Infrastructure	• Early Civil Works
• Turbines and Generators	• Transmission	• Worker Accommodation and Site Services
	• Site C Substation	

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

SITE C CLEAN ENERGY PROJECT

OFF-SITE COMPONENTS

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

OFF-SITE COMPONENTS AND EARLY WORKS

SITE C CLEAN ENERGY PROJECT

PROCUREMENT APPROACH

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

PROCUREMENT OBJECTIVES

- Achieve value for money for ratepayers
  - Maximize cost-effective project performance (generation capacity, energy, and flexibility)
  - Structure a fair and competitive procurement process
- Meet project schedule
- Meet project budget
- Optimally manage project risks
- Support Site C project objectives, including providing economic benefits for northern communities and the province

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

SAMPLE PROCUREMENT PROCESS

Qualification (when appropriate)	Development of contract documents	Solicitation of responses (RFPs, tenders)	Evaluation of responses	Award of contracts

Continued market engagement

- All contracts are subject to the project receiving environmental certification and associated permitting, as well as a final decision to proceed to construction
- No construction will begin until all permits and authorizations are in place
- All timelines provided in this presentation assume completion of the environmental assessment process in fall 2014

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

PROCUREMENT APPROACH

- Site C procurement includes many different packages and procurement models
- It will provide opportunities for businesses of all sizes (small, medium and large)
- Opportunities for local businesses and Aboriginal businesses
- Three categories of work:
  - Dam-Site Components
  - Off-Site Components
  - Early Works

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

PROCUREMENT OF DAM SITE COMPONENTS

DAM SITE COMPONENTS	OFF-SITE COMPONENTS	EARLY WORKS
• Earthworks • Generating Station and Spillways • Turbines and Generators	• Clearing • Public Road Infrastructure • Transmission • Site C Substation	• Early Clearing • Early Civil Works • Worker Accommodation and Site Services

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

EARTHWORKS

Procurement	Scope
Delivery Method: Design-Bid-Build **Procurement Timing**: Qualification process starting 2013	**Excavation and bank stabilization** – More than 32 million m^3 of excavation associated with diversion, foundations, and stabilizations **Diversion Works** – Two ~10m diameter concrete-lined tunnels between 700m and 800m in length, plus associated cofferdams, and intake and outlet structures **Earthfill Dam** – Zoned earth embankment approximately 1,050m long and 60m above the present riverbed **RCC Buttress** – Roller-compacted concrete gravity approximately 800m in length and at a maximum height of 70m (Total RCC volume of approximately 2.4 million m^3) **Construction Timing**: 2015 to 2022

SITE C CLEAN ENERGY PROJECT

GENERATING STATION AND SPILLWAYS

Procurement	Scope
Delivery Method: Both Design-Bid-Build and Design-Build elements **Procurement Timing**: Qualification process starting 2015	**Reinforced concrete** – for spillways, intakes, penstock encasement, powerhouse substructure and retaining walls (Total of approximately 1.1 million m^3 of concrete) **Structural Steel** – fabrication and erection of powerhouse and penstocks **Balance of plant** – electrical and mechanical works, HVAC, compressed air, fire protection, etc. **Construction Timing**: 2017 to 2022

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

TURBINES AND GENERATORS

Procurement	Scope
Delivery Method: Design-Build **Procurement Timing**: Selection of supplier planned for 2015 Process underway to begin turbine model testing	Supply and installation of six 183 MW vertical axis Francis turbines Supply and installation of generators, governors, and exciters **Construction Timing**: Fabrication begins 2015. Installation from 2018 to 2022

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

DAM SITE COMPONENTS: SUPPORTING ACTIVITIES

Procurement	Scope
Delivery Method: Varies, direct or sub-contract **Procurement Timing**: Varies, some potentially beginning in 2013	• Archaeological site preparation • Decommissioning of temporary access roads • Environmental monitoring • Offices, storage facilities & staging areas • Safety, first aid & security • Site re-vegetation • Site road maintenance & snow clearing • Transportation & shuttle services • Truck washing & vehicle maintenance workshops • Waste treatment & management facilities • Workshops, labs, fabrication shops & testing facilities • Other supporting activities **Construction Timing**: 2014 to 2022

SITE C CLEAN ENERGY PROJECT

PROCUREMENT OF OFF-SITE COMPONENTS

DAM SITE COMPONENTS	OFF-SITE COMPONENTS	EARLY WORKS
• Earthworks • Generating Station and Spillways • Turbines and Generators	• Clearing • Public Road Infrastructure • Transmission • Site C Substation	• Early Clearing • Early Civil Works • Worker Accommodation and Site Services

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

CLEARING

Procurement	Scope
Delivery Method: Multiple contracts for clearing and disposal of specific lots. Size of lots to be determined **Procurement Timing**: Qualification process starting 2013	Total clearing including work sites and reservoir expected to be 1.4 million m^3 of merchantable and 1.2 million m^3 of non-merchantable, including early works **Construction Timing**: Currently under consideration based on feedback from public, communities and market considerations

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

PUBLIC ROAD INFRASTRUCTURE

Procurement	Scope
Delivery Method: In conjunction with MOTI **Procurement Timing**: Qualification process starting 2014	Realignment of multiple sections of Highway 29 over a total distance of approximately 30 km Any additional modifications to public road infrastructure **Construction Timing**: Early sections – late 2015 to 2017 Final sections – 2017 to 2020

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

TRANSMISSION LINE

Procurement	Scope
Delivery Method: To be finalized **Procurement Timing**: To be finalized	Two 77 km 500kV transmission lines from Site C substation to Peace Canyon substation Decommissioning of existing 138kV transmission lines and integrating 138kV circuit to Site C substation Three 500 kV overhead lines from the generating station to the Site C substation **Construction Timing**: Tentatively 2017 to 2021

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

SITE C SUBSTATION

Procurement	Scope
Delivery Method: To be finalized **Procurement Timing**: To be finalized	Substation connecting the power feed from the Site C generating station to the two 500kV lines from Peace Canyon and the 138kV local power supply **Construction Timing**: Tentatively 2018 to 2021

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

OFF-SITE COMPONENTS: SUPPORTING ACTIVITIES

Procurement	Scope
Delivery Method: Varies **Procurement Timing**: Varies	• Accommodation support • Boat launches • Day use recreation areas • Hudson's Hope Berm • Monitoring programs • Operation of satellite worker accommodation camps (if required) • Park and Ride Facilities • RV site operation and management (if required) • Wildlife or fish mitigation projects • Other supporting activities **Construction Timing**: 2015 to 2022

SITE C CLEAN ENERGY PROJECT

PROCUREMENT OF EARLY WORKS

DAM SITE COMPONENTS	OFF-SITE COMPONENTS	EARLY WORKS
• Earthworks • Generating Station and Spillways • Turbines and Generators	• Clearing • Public Road Infrastructure • Transmission • Site C Substation	• Early Clearing • Early Civil Works • Worker Accommodation and Site Services

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

EARLY CLEARING

Procurement	Scope
Delivery Method: Multiple contracts for clearing and disposal of specific lots. Size of lots to be determined **Procurement Timing**: Qualification process starting 2013	Clearing of lower reservoir (expected to be approximately 300,000 m^3 merchantable timber) **Construction Timing**: 2014 to 2015

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

EARLY CIVIL WORKS

Procurement	Scope
Delivery Method: Varies, primarily Design-Bid-Build **Procurement Timing**: Qualification process starting 2013	Site preparation would include clearing, grubbing and stripping as well as disposal or removal of wood debris Excavation and bank stabilization as well as developing disposal sites and access to cofferdams Construction of access roads on both the north/left bank (river road) and south/right banks (Project Access Road and Septimus Siding) **Construction Timing**: 2014 to 2015

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

WORKER ACCOMMODATION AND SITE SERVICES

Procurement	Scope
Delivery Method: Design-Build-Finance-Operate-Maintain **Procurement Timing**: Qualification process starting 2013	**North Bank Camp** – estimated maximum size 500 persons (constructed first) **South Bank Camp** – estimated maximum size 1,200 persons in years 5 and 6 **Camp Operations and Selected Site Services** **Construction and Operations Timing**: 2014 to 2022

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

ABORIGINAL CONTRACT & PROCUREMENT POLICY

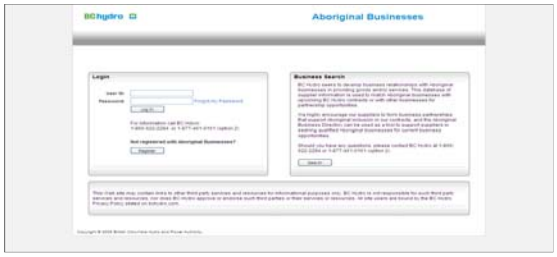
- Provides flexible procurement options to advance business opportunities for Aboriginal businesses. Options could include:
  - Direct awards
  - Select tenders
  - Set asides
- Aboriginal Business Definition & Eligibility
- Aboriginal Content Evaluation Criteria

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

ABORIGINAL BUSINESS DIRECTORY

https://www.bcaboriginalvendors.ca/aboriginal_vendors/



BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

STAYING INFORMED

- Sign up for Site C Business Directory
  - available at: **www.bchydro.com/sitec**
- Get to know BC Bid
- Attend proponent information meetings
- Participate in networking sessions
  - Facilitating local / regional business to engage with major proponents
- Come to potential future Business Information Sessions
- Plan ahead
  - Familiarize yourself with the project

BC hydro FOR GENERATIONS

36

SITE C CLEAN ENERGY PROJECT

QUESTIONS

BC hydro FOR GENERATIONS

SITE C CLEAN ENERGY PROJECT

For more information:

www.bchydro.com/sitec

BC hydro FOR GENERATIONS