

**Appendix A - Participant Involvement Program Report  
Genesee Generating Station Units 4 & 5  
AUC Application for a Power Plant**

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**December 2013**





## **1.0 Introduction**

The following outlines Capital Power's efforts to engage stakeholders who have a potential interest in or who may be directly and adversely affected by Genesee Generating Station Units 4 & 5 (the Project). This report will outline:

- Approach, goals and objectives of stakeholder engagement;
- Identification of stakeholders;
- Notification and consultation activities conducted for the Project;
- Comments, concerns, and how these are being addressed;
- Aboriginal engagement; and,
- Plans for on-going consultation.

## **2.0 Consultation Process Overview**

Capital Power developed the Participant Involvement Program (PIP) to be compliant with AUC Rule 007. Capital Power's engagement efforts related to the Project build on an ongoing stakeholder outreach process the company has developed as part of existing Genesee Generating Station (GGS) operations since 1989. This process includes established communication channels (phone lines, mail, e-mail), in-person meetings, a community newsletter, an on-going community advisory group, activities such as tours and participation at community events, and focused consultation processes regarding new projects and/or changes to our operations.

Consultation is used by Capital Power to identify potentially interested parties and their interests in our projects and operations. Consultation is also used to inform interested parties of the Project and incorporate their feedback where possible. Effective consultation and engagement also helps ensure concerns are identified and addressed as early as possible. In addition, it enables for the development and maintenance of important relationships between Capital Power and stakeholders.

Consultation and engagement for the Project began early in the planning process and will continue throughout the design, development, construction and operation of the Project. The Project Team worked with the following objectives as the basis for planning the PIP:

- Share information about the project to ensure stakeholders are informed and knowledgeable about project impacts and benefits;
- Ensure that relevant, accurate, and consistent information about the Project is provided to community members, members of the public, agencies, Aboriginal communities, and local municipalities, as early as possible;
- Identify potential issues and areas of concern that may arise from the Project;



- To seek resolution of concerns through additional dialogue and information sharing and / or to incorporate their concerns or interests into the Project planning and design process, to the greatest extent possible.
- Address concerns by way of providing additional information, and, where possible or necessary, modify Project design;
- Promote effective, proactive and responsive communications with the public, agencies, municipalities and Aboriginal communities;
- Track and document all communications between the Project Team and interested parties to ensure all comments are addressed and incorporated into the Project where possible.

The following sections provide an overview of the tools used to communicate with the public, agencies, municipalities and Aboriginal communities and how these tools were used over the course of consultation for the Project.

## **2.1 AUC Requirements**

Capital Power's PIP process was designed to meet or exceed the requirements of AUC's Participant Involvement Program. The Process includes the following components:

- An acknowledgement that "Participant Involvement" is a term encompassing all aspects of public, local authority, Aboriginal, and industry interactions and communications.
- Contact and discussions with persons whose rights may be directly and adversely affected by the nature and extent of a proposed application.
- Sensitivity to timing constraints of the public (i.e. planting, harvesting, calving, holidays).
- Documentation of outstanding concerns and undertaking efforts to understand and identify solutions.
- Engagement taking place prior to the filing of the Application, with multiple opportunities for engagement, including opportunities to meet Capital Power representatives directly involved in the Project.
- At minimum, notification of occupants, residents and landowners within 2,000 metres and direct consultation with those with 800 metres.
- The development and distribution of Project information to stakeholders, ensuring that technical information is conveyed in a manner understandable to the public.
- Time for stakeholders to consider and respond to notifications of the Project.
- Continuation of contact with stakeholders throughout the "involvement loop", including updates as the Project progresses.
- Document the results of the stakeholder engagement process, including retaining information for the purposes of a potential AUC audit.

## **2.2 Correspondence and communication tracking**

Communication regarding the Project are documented and recorded in summary tables with contact information, date, and nature of the communication. For the purposes of this



*PIP Report*, all personal information from public stakeholders (i.e. names, contact information) has been removed.

## **3.0 Stakeholders**

### **3.1 Identification**

Capital Power identified stakeholders by considering the company's previous engagement and communications with a range of public, local authority, and industry stakeholders, as well as consideration for other groups which may have an interest in the Project. Capital Power's participant contact information included the following:

- Occupants, residents and landowners requiring direct consultation and notification.
- Other persons whose rights may be directly and adversely affected by the nature and extent of the Project.
- Companies with operations in the local Genesee area.
- Community groups in the local Genesee Area.
- Non-government Organizations and persons that have expressed previous interest in Capital Power and its operations.
- Government (federal/provincial) ministries and/or agencies with responsibilities for permitting, and authorities regarding Alberta's power grid.
- Aboriginal Groups who have been included in previous PIP's with Capital Power Projects and/or who have expressed an interest in Capital Power operations.

### **3.2 Specific stakeholder groups**

The following is a list of stakeholders and specific information on how these individuals, companies and groups were selected.

#### **3.2.1 Occupants, residents and landowners within 1.5 miles (2,410 metres) of the Project Area**

Capital Power chose to expand the boundaries for direct consultation with occupants, residents and landowners beyond the 800 metres indicated in AUC Rule 007. The company took this step based on several considerations:

- There are no private landowners within 800 metres of either the existing or proposed facility site.
- Capital Power owns the land up to a minimum of 2,000 metres of the site of the proposed Project, and in excess of 3,200 metres in some directions.
- Capital Power included the Genesee cooling pond as a part of the Project Area. A rectilinear buffer was established around this area to follow quarter-section lines:



- This boundary followed a North/South orientation along Range Roads 30 & 33 and East/West along Townships 503 & 505A.
- The shape of the buffer area is consistent with typical property survey patterns in the area allowing for more specific landowner identification.
- Based on this boundary, Capital Power developed a mailing list to include landowners within 1.5 miles, or approximately 2,410 metres.

The map of this boundary is provided in Figure 1. As a result of this process, 23 individual landowners and four (4) business landowners were identified for notification and personal consultation by Capital Power in regards to the Project.

Contact with these individuals commenced with an information package sent by mail on November 6<sup>th</sup>, 2013. This was followed by calls from Project Team members on November 18 and 19, 2013 confirming receipt of the package, answering questions and inviting them to the open house.

Capital Power also identified a number of companies with interests and operations within 1.5 miles of the Project area. Following an initial project information email on November 13 (which included a copy of the Project Brochure and an invitation to the open house), a follow-up email was sent on December 5 to confirm whether they had any questions or concerns. These companies are:

Company	Reason for engagement
EPCOR Utilities Inc.	<ul style="list-style-type: none"> <li>• Operates the Genesee Substation located within the GGS.</li> </ul>
ATCO Pipelines	<ul style="list-style-type: none"> <li>• Operates natural gas pipelines in the area, including the current supply line for the GGS</li> </ul>
TransCanada	<ul style="list-style-type: none"> <li>• Coordinator for the Application for Service of the gas supply.</li> </ul>
Prairie Mines and Royalty Limited	<ul style="list-style-type: none"> <li>• Operates the Genesee Coal Mine for Capital Power.</li> </ul>
AltaLink	<ul style="list-style-type: none"> <li>• Currently constructing substation to the north of the GGS on Capital Power lands</li> </ul>

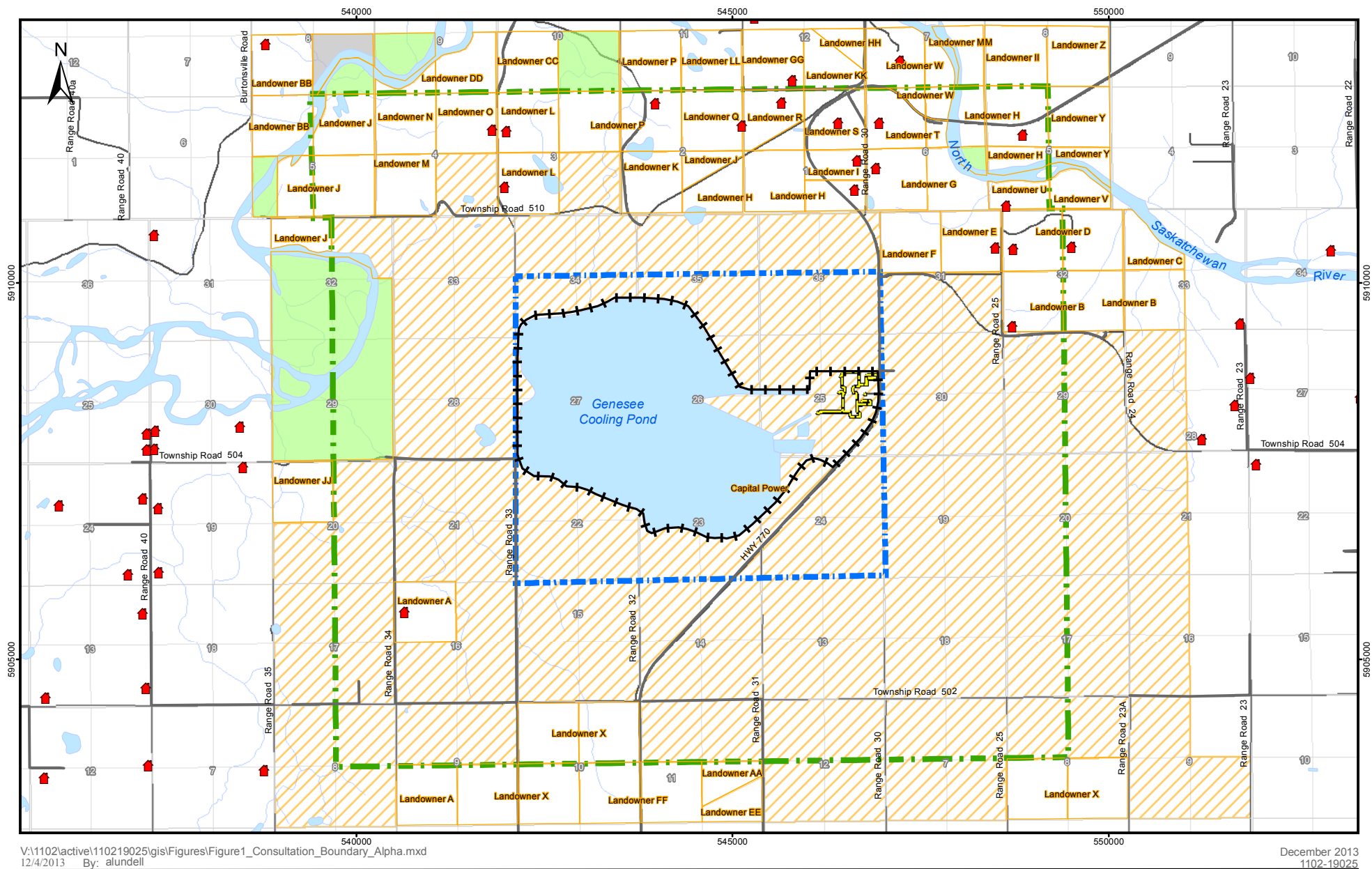


### 3.2.2 Synergy Group

Capital Power hosts an informal local industry group, known as the Synergy Group. Business members of the Synergy Group received the Project Information Package by e-mail on November 13. Members of the Synergy Group include:

<ul style="list-style-type: none"><li>• EPCOR Utilities Inc.</li><li>• ATCO Pipelines</li><li>• Lehigh Hanson Materials Ltd.</li><li>• ENX Inc.</li><li>• Prairie Mines and Royalty Limited</li><li>• TransAlta Utilities Inc.</li><li>• Ravenwood Energy Corp</li><li>• Burnco Rock Products Ltd.</li><li>• Taqa North Ltd.</li></ul>	<ul style="list-style-type: none"><li>• Leduc County</li><li>• Gametre Sources</li><li>• Buckmountain Gas Co-op</li><li>• Response Energy Corp.</li><li>• Ascent Energy Ltd.</li><li>• Enform</li><li>• Penn West Petroleum Ltd.</li><li>• Woma Energy Ltd.</li><li>• Jones Trucking and Backhoe Service Ltd</li></ul>
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12/4/2013 By: alundell

December 2013  
1102-19025



Projection: 10TM AEP Forest Datum: NAD 83  
Base data obtained from GeoBase®

- Resident
- Property Line
- Capital Power Ownership
- County Land
- Crown Land
- Consultation Area (i.e. 1.5 miles from facility boundary)
- Facility Boundary for Consultation Purposes
- Project Fenceline
- Limit of Construction
- Road
- ATS Section Grid
- Watercourse
- Waterbody

Client/Project  
CAPITAL POWER CORPORATION  
GENESEE GENERATING  
STATION EXPANSION

Figure No.  
1

Title  
LAND OWNERSHIP IN PROJECT AREA

1:70,000 0 1 2 3 4 5 Kilometers  
This map is for reference purposes only



### 3.2.3 Municipal governments

The Project is located within Leduc County. As a result of the existing GGS operations, Capital Power is one of the largest taxpayers in the County. Capital Power maintains ongoing relationships with numerous County staff and elected officials in matters relating to its operations and community-related initiatives. In addition, Capital Power has on-going interactions with several other municipalities within Leduc County, including the Village of Warburg and the Village of Thorsby.

General communication on the Project occurred with Leduc County's Division 7 Councillor in April 2013, when Capital Power, via e-mail, confirmed that it was considering the Project.

Members of Leduc County and the Village of Warburg also attend regular breakfast meetings that Capital Power hosts, known as the "Good Neighbour Breakfasts." The Project was discussed at these events held on March 11, September 12, and December 3, 2013.

Based on their on-going interest of the Genesee operations, Capital Power included the following municipalities in its notification process, which commenced on November 6, 2013, with the mailing of its Project information package:

- Leduc County
- Village of Thorsby
- Village of Warburg

On December 3, Project team members met regarding the Project with elected officials and staff from Leduc County and Warburg. Meeting attendees included:

Leduc County	Village of Warburg	Capital Power
<ul style="list-style-type: none"><li>• John Whaley, Mayor; Audrey Kelto, Councillor</li><li>• Brian Bowles, County Manager;</li></ul>	<ul style="list-style-type: none"><li>• Ralph Van Assen, Mayor;</li><li>• Christine Pankewitz, Municipal Administrator</li></ul>	<ul style="list-style-type: none"><li>• Sean Furey, Genesee Plant Manager;</li><li>• Paul Dews, Business Development Manager</li><li>• George Greenhough, Genesee Land Management</li><li>• Darren Alessandrini, Sr. Manager, Natural Resources &amp; Business Development</li><li>• Jennifer Lowry, Public Consultation</li><li>• Jennifer Linder, Land Management</li></ul>



The goals of this meeting included:

- Provide an opportunity for municipal officials and Project Team members to meet directly.
- For Capital Power to provide detailed information on the Project, including key points of municipal interests such as:
  - Impacts to residents
  - Traffic and impacts to municipal services
  - Taxation levels
  - Environmental effects
  - Future employment and contracting opportunities
- For municipal officials to present their questions directly to Project team members.

The presentation provided by Capital Power was based on information provided at the public open house on November 27, 2013 and can be found in Section 8.9.

### **3.2.4 Genesee Community Advisory Task Group (CATG)**

The CATG is a volunteer group of seven local residents that meet three times annually to discuss topics relating to the GGS and Genesee Mine operations. The Project was discussed with members at two CATG meetings:

Meeting date	Information presented
June 19, 2013	<ul style="list-style-type: none"><li>• Initial discussion of the Project</li><li>• Reference to a news story that had appeared in the Edmonton Journal regarding the Project.</li><li>• Outline of regulatory requirements</li><li>• Discussion of location and size of the facility</li></ul>
October 16, 2013	<ul style="list-style-type: none"><li>• Project update</li><li>• Traffic impacts</li><li>• Need for a natural gas line</li></ul>

Four CATG members also attended Open House #1 on November 27, 2013.

### **3.2.5 Local community groups**

Capital Power engages, or has engaged in the past, a number of community groups active in the local area. These groups include:

- The Canadian Historical Arms Society
- The Genesee Agricultural Society
- Meewasin Community Action Group
- Warburg Hutterite Colony
- Strawberry District Society
- Farmers Advocate Office



### 3.2.6 Schools

Capital Power contacted schools and the school board that operates in the Genesee area who have also expressed previous interest in the GGS. These include:

- Black Gold School District
- Warburg School
- Mother Earth Charter School

### 3.2.7 Provincial Government Ministries and Agencies

Capital Power engaged a number of government ministries and agencies involved in the technical approval and interconnection process. These agencies included:

Ministry/Agency	Reason for engagement
Alberta Environment and Sustainable Resource Development (ESRD)	<ul style="list-style-type: none"><li>• The environmental permitting process for the Project</li><li>• The GGS Licence Renewal process</li><li>• Regarding First Nation consultation</li></ul>
Alberta Utilities Commission (AUC)	<ul style="list-style-type: none"><li>• The Facility Application per AUC Rule 007.</li><li>• Noise Control requirements per AUC Rule #012</li></ul>
Alberta Electric System Operator (AESO)	<ul style="list-style-type: none"><li>• Regarding interconnection to the Alberta electricity system</li></ul>

### 3.2.8 Federal Agencies

Capital Power engaged the Canadian Environmental Assessment Agency (CEAA) which will determine if a Federal environmental assessment is required for the Project. To assist CEAA in making its determination, a Project Description was prepared, which the agency posted on its website on December 2, 2013. A 20-day public comment period commenced on that date and will conclude on December 23, 2013. Capital Power will be fully compliant with any direction it receives to involve federal agencies.

Agency	Reason for engagement
Canadian Environmental Assessment Agency	<ul style="list-style-type: none"><li>• To determine if a Federal environmental assessment is required for the Project</li></ul>
NAV Canada	<ul style="list-style-type: none"><li>• To obtain land use clearance for the Project</li></ul>
Transport Canada	<ul style="list-style-type: none"><li>• To obtain aeronautical clearance from Transport Canada for two new generator stacks that are approximately 80 metres in height</li></ul>



### **3.2.9 Non-governmental Organizations (NGOs)**

Capital Power notified a number of NGOs about the Project. The selection of these groups was based on direct interest in operational related matters (i.e. airshed and water use from the North Saskatchewan River) or previous interest and/or dialogue. These groups include:

- Pembina Institute
- North Saskatchewan Watershed Alliance
- Toxic Watch
- West Central Airshed Society
- Clean Air Strategic Alliance

Following its initial mail out, Capital Power received an inquiry on the Project from the Prairie Acid Rain Coalition (see Section 5.7). Capital Power has added this group to its mailing list for the Project and will share Project updates as applicable.

### **3.2.10 Aboriginal Consultation and Engagement**

Capital Power initiated contact with ESRD to determine the First Nations consultation requirements regarding the Project. Capital Power commenced this contact in early October. On November 29, 2013, ESRD responded with this guidance and direction. ESRD advised Capital Power that considering the Project is located on private lands, and the magnitude and duration of the proposed Project, the triggers for First Nation consultation are at the lower end of the spectrum. Since the Paul First Nation (PFN) Traditional Use area is closer (less than 10 km) to the proposed location there may be a possibility that they identify that their Treaty right to hunt and fish are impacted. For these reasons, First Nation consultation should include notification only to the PFN. Correspondence from ESRD containing this direction is found in Section 8.8.

Anticipating the inclusion of the PFN in our consultation efforts, Capital Power mailed information to this community on November 7, 2013 and followed up with a phone call and email on November 20. A meeting with Capital Power has been requested to understand the project. Capital Power will work to arrange a meeting in January.

#### **3.2.10.1 Other Aboriginal Communities**

As a courtesy and following in previous engagement efforts, Capital Power also mailed a Project Information Package on November 7 and followed up with a phone call to the following First Nation groups:

- Alexander First Nation
- Alexis Nakota Sioux Nation
- Enoch Cree Nation



Capital Power also provided a Project Information Package to the Metis Nation of Alberta, Region 4 and followed with a phone call. Additionally, a representative from the Metis group at Lac St. Anne attended the November 27 open house and requested inclusion on the Project mailing list.

### **3.2.10.2 Aboriginal Communities Contacted by CEAA**

As part of CEAA's assessment of whether a Federal environmental assessment is required for the Project, CEAA initiated contact with the following Aboriginal groups by e-mail on December 2, 2013:

- Alexander First Nation
- Alexis Nakota Sioux Nation
- Enoch Cree Nation
- Ermineskin Cree Nation
- Louis Bull Tribe
- Montana First Nation
- O'Chiese First Nation
- Paul First Nation
- Samson Cree First Nation
- Sunchild First Nation
- Stoney Nakoda First Nation
- Tsuu T'ina Nation
- Whitefish Lake First Nation
- Metis Nation Region, 4

On December 6, 2013, a representative of the Ermineskin Cree Nation e-mailed Capital Power indicating that it has traditional land use and traditional ecological uses within this proposed area and that Capital Power needs to consult with the community. Capital Power subsequently made contact by phone on December 9, following up with additional Project information sent by e-mail that day. On December 11, Capital Power proposed a meeting with this community at the Genesee Generating Station in January to discuss the Project with team members. Additional engagement activities will be determined after further dialogue with this Aboriginal group.

## **4.0 Notification and Engagement Activities**

Capital Power undertook a number of activities to inform and engage stakeholders about the Project. This section provides details about these activities.

### **4.1 Project Information Package & Initial Notification**



Capital Power commenced stakeholder notification regarding the Project in early November. Information to stakeholders was mailed or e-mailed beginning on November 6, 2013.

The central element of the information package was the Project Brochure which was developed to meet all of the required components outlined in AUC Rule 007, including:

- Applicant name and contact information.
- Location of proposed facilities, including power plant, transmission line and/or substation development, including site specific map.
- Need for the proposed facility and how it fits within the Alberta power market.
- Description of the lands proposed for the Project.
- Description of proposed on-site equipment.
- Proposed project schedule for Commission application, construction and start-up.

In addition to the Project Brochure, the information package also included:

- A letter from Capital Power's project lead with information about (and an invitation to) a Project open house on November 27; and,
- The AUC brochure, *Public Involvement in Needs or Facilities Applications*.

#### **4.2 Newspaper advertisements**

Capital Power placed public notices about the Project and the Project open house in local newspapers throughout the month of November. The newspapers were chosen based on their local circulation and their publication dates. Copies of the ads can be found in section 8.5. These notices covered the following information:

- Project background, including the type and size of generating units, the proposed location, the anticipated need, and schedule.
- Regulatory requirements, including the regulatory agencies that would assess Capital Power's applications.
- The time, date, and location of the open house.
- Contact information (phone, fax, e-mail, mail).

These notices appeared in the following publications.

Newspaper	Date
<i>Leduc Representative</i>	<ul style="list-style-type: none"><li>• November 1</li><li>• November 15</li><li>• November 20</li></ul>
<i>Stony Plain Reporter</i>	<ul style="list-style-type: none"><li>• November 1</li><li>• November 15</li><li>• November 20</li></ul>



<i>Thorsby Target</i>	<ul style="list-style-type: none"> <li>• November 1</li> <li>• November 15</li> <li>• November 22</li> </ul>
<i>Breton Booster</i>	<ul style="list-style-type: none"> <li>• October 30</li> <li>• November 13</li> </ul>
<i>Warburg Bugle</i>	<ul style="list-style-type: none"> <li>• November 8</li> <li>• November 22</li> </ul>
<i>Pipestone Flyer</i>	<ul style="list-style-type: none"> <li>• November 7</li> <li>• November 21</li> </ul>

### 4.3 Personal Consultation

As described in Section 3.2.1, Capital Power identified 23 individuals living in closest proximity to receive direct and personal consultation. These efforts included contact by phone and in-person. Letters provided to these individuals indicated the ability of Project team members to meet directly with individuals. Up to three attempts were made to contact these individuals. Ten conversations were held, and two individuals in the 1.5 mile (2,410 metre) radius attended the open house.

Capital Power also held a face to face meeting with representatives of Leduc County and the Village of Warburg on December 3, 2013. Details of this meeting can be found in Section 5.2.

Capital Power will respond to stakeholder requests for direct meetings regarding the project.

### 4.4 Open House #1

A Project open house was held at Genesee Hall on Wednesday, November 27, 2013. Genesee Hall was chosen as the venue for this event as it is in close proximity to the Project site and is a familiar and central meeting place for local residents and is used regularly by Capital Power for community events.

The goals of the open house were to offer stakeholders:

- Another method of receiving Project information;
- Another opportunity for personal consultation for residents living within 1.5 miles (2,410 metres) of the Project Area (as outlined in Section 3.2.1);
- An opportunity for stakeholders to meet Project Team members and to receive information directly from those individuals, including technical experts;
- An opportunity ask questions of Project team members and experts to learn more specific information about the Project; and,
- An opportunity to comment on the Project, whether directly to Project team members or on a comment form provided by Capital Power.

Information about the open house was conveyed in the following way:



- Advertisements in local newspapers (Section 8.5)
- Mailed information sent to stakeholders
- A road sign that was placed on Hwy 770 November 13 through November 28, 2013.
- Verbally, such as during phone conversations

The open house featured the following components:

- 29 display panels (Section 8.6)
- 15 Project representatives from Capital Power and Subject Matter Expert consultants
- A question board for attendees to post their questions
- Feedback forms
- Copies of the Project Information Brochure, AUC Public Involvement Brochure and the October edition of the Genesee Connection Newsletter
- Videos of the Genesee Falcon Program and overview of the existing GGS facility
- Chili supper

Twenty-six individuals attended and 10 comment sheets were returned to Capital Power. The comments are summarized below:

Reason for attending	Did the OH meet your needs?	Comments/Questions
Learn more about the new boilers	Yes – very good, informative, enjoyed the G1&2 video	None – no need to contact
For information	Yes	n/a
To understand the proposed project and to understand the environmental impacts	Yes – open house provided information to assist in understanding the risks and mitigative actions required to protect the environment	
n/a	Yes	
Learn what is happening	Yes – learned lots	Very informative. Learned a lot about the company
Leduc County interest	Yes – very interesting	
Fact finding mission for the Boilermakers Union, Local 146	Yes	n/a
To become more aware of the new project	Yes	n/a
General impact on neighbourhood, employment	Yes	n/a
Local resident	n/a	Traffic concerns, land value concerns, hiring locals



Following the open house, Capital Power submitted summary articles to newspapers in the region in order to further inform stakeholders of the Project and to provide contact information for questions and comments. These articles (see Section 8.10) were published in the Bretton Booster (December 4), the Thorsby Target (December 6) and the Warburg Bugle (December 6).

A list of questions received by Project team members during the open house can be found in section 5.1.

#### **4.5 Phone, mail, e-mail and fax**

As part of offering stakeholders multiple channels to contact the Project Team, Capital Power ensured that existing contact methods were listed prominently on all Project information circulated to the public, including:

- Notification letter
- Public notices in local newspapers
- Newsletters
- Website
- Open House boards
- Presentation material

These phone numbers (780-848-8474 and 1-866-348-3946) and fax (780-392-5124) are established contact channels developed for the Genesee community. This is a local number and is also offered as a toll-free line in Alberta.

The e-mail address ([publicconsultation@capitalpower.com](mailto:publicconsultation@capitalpower.com)) is an existing email address Capital Power uses for Genesee-related communication.

The following table describes the stakeholder contacts received to date through each of the channels from October 28 to December 16:

Contact method	Number of contacts
Phone	1
E-mail	6
Mail	0
Fax	0

#### **4.6 Website**

Capital Power launched a webpage dedicated to the Project on October 28. The page's URL is: <http://www.capitalpower.com/generationportfolio/constructiondevelopment/Pages/G4and5.aspx>



At launch, the webpage provided the full range of information on the Project available to the public including:

- Project brochure
- Public notices
- Contact information
- Plant rendering
- Map, showing the Project in relation to regional landmarks

Following the open house on November 27, 2013, the Project team posted the open house boards on the website. Capital Power will continue to update the site as more information becomes available.

#### **4.7 Meetings and special events**

On an annual basis, Capital Power hosts or participates in a large number of meetings or special events with a range of stakeholders in the Genesee area. First as EPCOR and then as Capital Power, the company has a long history of participating and supporting community events. The company is an active community member for a number of reasons:

- As part of its on-going commitment to investment and support;
- As a method of engaging with and being available to stakeholders on an informal basis;
- As a way of sharing updates about Genesee operations and receiving feedback, and;
- Maintaining a current understanding of community thoughts and concerns.

Capital Power participated in or hosted the following events in 2013:

Date	Event
March 11	Good Neighbour Breakfast
April 11	Community Meeting on new Water Supply Policy
April 20-21	First Aid Training for local residents
June 19	CATG Meeting
June 22	Warburg Canada Day
June 27	Crop Tour
September 12	Good Neighbour Breakfast
October 16	CATG meeting
December 3	Good Neighbour Breakfast



## **4.8 Newsletter**

Capital Power distributes a newsletter (*Genesee Connection*) to the wider region four to six times each year. Newsletters are delivered via postal code drop, email and direct mail to residents within a 20 km radius of the Genesee Generating Station. The mailing list also includes a number of locals, businesses and other stakeholders who have an interest in the Genesee operation. The main objective of the newsletters is to provide area residents with current information about operations at the Genesee Station and the Genesee Mine. Newsletter distribution commenced after the Genesee operations began in the early 1980s. Capital Power plans to continue providing stakeholders with information through newsletters throughout the life of the Project and the Genesee Generating Station.

A story on the Project appeared in the October 2013 edition (Section 8.4). Capital Power plans to distribute an issue focused on the Project in January 2014.

## **5.0 Stakeholder Comments and Feedback**

The following section outlines the questions and comments that Capital Power received as part of the Participant Involvement Program, and responses to those questions. Further information about how Capital Power considered stakeholder input in Project planning and design is described in Section 6.0 part of planning and designing the Project. These comments and questions will help drive future engagement efforts and guide input into future available public information and Project open houses.

### **5.1 Questions from Open House #1**

The following are questions that Capital Power received at Open House #1 on Wednesday, November 27, 2013.



### 5.1.1 Regarding fuel type, plant configuration

Question/comment	Capital Power Response
Is this a natural gas fired project?	Yes. Due to its abundance and affordability of natural gas, Capital Power believes that natural gas will offer the best fuel for providing reliable, clean and efficient alternative for new generation in meeting the demand growth in Alberta.
Where will Capital Power get the gas? How will the gas be brought to the Project site and where is it coming from?	<p>The current plan is for the Project gas supply to come from TransCanada's mainline located east of Drayton Valley. An underground pipeline of approximately 78 kilometres will be developed to supply fuel for the Project. TransCanada and ATCO will determine the preferred route option for the pipeline. The pipeline will connect to an existing high pressure line in the area and TransCanada/ATCO will require a separate regulatory approval process prior to construction</p> <p>The service provider for natural gas pipelines in the area is Atco Gas who is responsible for the pipeline's regulatory process and installation.</p>
What configuration we will be using and how does the technology work?	<p>Capital Power is proposing to utilize advanced combined cycle natural gas-fired turbine technology (CCGT) for the Project. The CCGT process begins with a natural gas turbine generator which produces power and exhaust heat when in operation. The exhaust heat is used to create steam in a heat recovery steam generator (HRSG) which drives a steam turbine generator.</p> <p>As a 'combined' process, the gas turbine and steam turbine together generate power with greater efficiency and lower emissions. The Project is proposed as two identical combined cycle systems which could achieve a combined gross capacity of up to 1,050 MW. Each generating unit consists of a natural gas-fired turbine generator and a heat recovery steam generator, and a steam turbine generator.</p>



Question/comment	Capital Power Response
Will this be the same configuration as the Shepard Generating Facility in Calgary? (2 x 1)	<p>No. The Shepard unit is configured to use two gas fired turbines and one steam turbine generator. In short, it has a 2 x 1 configuration.</p> <p>Genesee Units 4 &amp; 5 are proposed as two identical units, with one gas unit and one steam turbine. In short, each unit is proposed as two identical trains in a 1 x 1 configuration each.</p>
Are you shutting down the coal units (Genesee Units 1-3)?	<p>No. Capital Power will continue to operate the existing coal-fired units until their legislated end-of-life. The average age of Capital Power's four coal-fired facilities is just over 12 years. Under the Federal Coal Regulations Capital Power's oldest coal-fired unit (G2) which was commissioned in 1989 will reach the 50 year retirement in 2039. Likewise, G1 and G3 will reach their retirement age in 2044 and 2055 respectively. These units continue to be used to meet current Alberta power needs.</p>

### 5.1.2 Plant design, building site and transmission

Question/comment	Capital Power Response
How do the proposed units compare size in to the current facility and specifically to the Genesee Unit 3 building?	<p>The proposed Project has a smaller foot print of 200m x 300m, as compared to the existing Genesee units, which have a footprint of 300m x 400m. The power generation building height is approximately 40 metres for the new units compared to Genesee 3 boiler building height of 69m.</p>
How come the Proposed project is so much smaller given the capacity of the units?	<p>The existing units at Genesee are based on pulverized coal fired boilers with steam turbine generator. The existing coal fired boilers are equipped with particulate control, ash handling system, dry flue gas de-sulphurization system (G3 only) and coal handling system inherent with coal firing, adding significant foot print.</p> <p>The new units are based on natural gas fired combined cycle technology. Combined cycle</p>



Question/comment	Capital Power Response
	<p>technology offers a smaller foot print per megawatt of potential generation. Also there are no coal and ash handling systems as the natural gas fuel supply system to gas turbines are relatively simpler and produce no solid waste/by-product to handle. Due to a cleaner combustion process, combined cycle process produce significantly less pollutants compared to coal fired units. The emission control technologies for pollutant control are more compact and less complex than those required for advanced coal systems.</p>
<p>Where will the Project be built?</p>	<p>The proposed project will be located on a brownfield site (previously disturbed) adjacent to the east-side of the existing Genesee Generating Station (GGS) and on the west-side of Secondary Highway 770. It will utilize the existing infrastructure of the GGS (i.e. substation, transmission and water intake / discharge structures).</p>
<p>Will the Project use cooling towers? If not, how will the generating units be cooled?</p>	<p>The Project proposes to use once-through cooling instead of cooling towers. Cooling water will be sourced from the existing cooling pond by extension of the inlet canal and returned water will be discharged to the cooling pond through the outlet canal.</p>
<p>How many stacks will the plant have?</p>	<p>There will be two stacks, one for each of the units. The stacks will be approximately 80 metres (262ft) in height, which is half the height of the existing GGS stacks.</p>
<p>How will the power get to the Alberta power grid?</p>	<p>No new transmission lines are proposed for this Project to transfer the energy from the Genesee Substation to the provincial power grid. Electricity generated by the Project will be transmitted to the adjacent Genesee Substation, which is interconnected to Alberta's power grid with existing transmission lines. Only a minor expansion will be completed on the existing Genesee Substation as a result of the Project.</p>



Question/comment	Capital Power Response
Will additional transmission lines be required for the Project?	<p>No new transmission lines are proposed for this Project to transfer the energy from the Genesee Substation to the provincial power grid. Electricity generated by the Project will be transmitted to the adjacent Genesee Substation.</p> <p>Only a small extension of the existing substation located on land within the GGS site will be required.</p>

### 5.1.3 Environmental Effects (Air, Water)

Question/comment	Capital Power Response
How do the emissions from the proposed project compare to the existing plant?	Model predictions indicate little difference between Base Case (Existing Genesee Generating Station (Units 1-3) and other industrial sources in the study area) and Application Case (Base Case + G4&G5 Project) results, with maximum predicted concentrations of key substances of interest increasing less than 3% indicating that the Project is not expected to materially increase maximum concentrations of these substances within the study area.
Will land be flooded as a result of the Project?	No, nor will additional lands be required for the Project outside of the present boundaries of the existing GGS, which is owned by Capital Power.
Is it possible that fish may be pulled into the cooling system for the Project or the existing GGS units?	It is unlikely that fish would enter the cooling system. Screens have been installed on the pumps that pull water from the cooling pond to prevent fish and debris from entering the system.
Please provide background on the evaporation levels described in the open house board?	Tables presented at the open house cover preliminary water quality results (see 8.5) and a number of parameters that Golder, on behalf of Capital Power, assessed and modelled in terms of anticipated effects on the cooling pond from the Project. This includes predicting water temperature, evaporative losses, and other parameters.



Question/comment	Capital Power Response
	Overall, final modelling conducted by Golder indicated a slight increase in the cooling pond temperatures (approximately 2°C), which results in a predicted increase of evaporative losses from the Genesee cooling pond of approximately 3.7 to 3.9 Mm <sup>3</sup> .
How many times is the water in the cooling pond used?	It's estimated that cooling pond water is cycled 40 to 60 times through the cooling system before eventually being returned to the NSR or entering the environment through evaporation.
Where is potable water sourced?	Potable water for the GGS is trucked in.
Where is service boiler water drawn for the existing GGS units? Where will this be drawn for the Project?	<p>The raw water source for the boiler water (or 'make-up water') for the existing GGS units is the cooling pond. Raw water is taken from the cooling pond and pumped to the primary water treatment plant where it is clarified, and then sent to the demineralization plant for final treatment before use in the power process cycle. Boiler water must be extremely pure; any impurities can cause overheating and corrosion in boiler tubes, poor operation, or cracking of turbine blades.</p> <p>The Project steam plant will have its own water treatment plant for supplying make-up water to the Heat Recovery Steam Generator. The water treatment plant will receive raw water from the cooling pond.</p>

#### 5.1.4 Regulatory Process and Schedule

Question/comment	Capital Power Response
When will the Project be built?	<p>The decision to begin Project construction will follow 1) the successful outcome of the regulatory and, 2) Capital Power's assessment of market conditions.</p> <p>Construction will be in two phases. Construction of the first phase of the project is expected to take three years, with the second phase taking an additional year to complete.</p>
Please explain the regulatory process.	Capital Power must file separate applications



Question/comment	Capital Power Response
	<p>for the facility with the following:</p> <ul style="list-style-type: none"> <li>• The AUC, for overall approval of the facility.</li> <li>• ESRD for the environmental permits required for the facility.</li> </ul> <p>Capital Power anticipates submitting these regulatory applications for the Project by late 2013 or early 2014.</p> <p>We expect the regulatory process will take 12 months to complete. Pending a successful outcome of the regulatory review, we anticipate construction to begin in late 2014 or early 2015.</p> <p>Capital Power has also engaged the Canadian Environmental Assessment Agency (CEAA) to determine whether a Federal environmental assessment is required for the Project.</p>
Describe your aboriginal engagement program?	<p>Capital Power is required to engage ESRD regarding consultation with Aboriginal groups. ESRD's direction on this matter was to initiate contact with the Paul First Nation in order to notify them of the Project.</p> <p>As a courtesy, Capital Power also notified several other communities about the Project. These include:</p> <ul style="list-style-type: none"> <li>• Alexander First Nation</li> <li>• Alexis Nakota Sioux Nation</li> <li>• Enoch Cree Nation</li> <li>• Metis Nation of Alberta</li> </ul> <p>The CEAA has also notified 14 Aboriginal groups, in terms its assessment of the Project.</p>

### 5.1.5



## Alberta Power Market and Dispatch

Question/comment	Capital Power Response
What are the market drivers behind this project?	<p>The project is being developed to meet anticipated increases in Alberta's power requirements from continued economic growth in the province and from expected retirement of existing coal generating units.</p> <p>According to the Alberta Electric System Operator (Feb. 2013), peak demand will grow from 10,600 MW to 14,600 MW by 2020 or by an average of 500 MW per year.</p> <p>Under the federal coal regulations, approximately 870 MW of coal-fired generation is scheduled to retire by 2019, including:</p> <ul style="list-style-type: none"> <li>• Battle River 3 (149-MW)</li> <li>• Sundance 1 (288-MW)</li> <li>• Sundance 2 (288-MW)</li> <li>• H.R. Milner (144-MW)</li> </ul>
Is the power for Alberta? What will the power be used for?	<p>The Project is being developed as a response to anticipated power needs in Alberta. Power from the Project will enter the Alberta power grid and could be used by any customer who has a connection to the grid. This includes industrial, commercial, residential and farm customers.</p>
How often will Capital Power run the plant?	<p>When and how often the units are run will be determined by the need for power in Alberta and overall market conditions. Capital Power is designing the Project to be more efficient than a simple cycle peaking plant. As such, Capital Power expects the Project would have higher utilization than a 'peaking plant.'</p>
Will Capital Power run this plant instead of the coal plants?	<p>No. The Project is being developed to supply incremental power demand being forecast for the Province of Alberta as well as demand that will be left unsupplied once older coal units (not Genesee units) reach the legislated end-of-life. The existing Genesee coal units and the Project units are distinct generation facilities and will each be dispatched independently. It is also</p>



Question/comment	Capital Power Response
	<p>important to note:</p> <ul style="list-style-type: none"> <li>• Alberta's coal units provide baseload power to the Province and are typically operated on a 24/7 basis when they are in operation.</li> <li>• Gas fired-units are typically dispatched by their owners on a more flexible basis, depending on the need and market factors.</li> </ul>
Will Capital Power export power to the United States?	<p>Capital Power is not considering exporting electricity generated from the Project to the United States.</p> <p>Alberta has traditionally been a net importer of electricity from BC, Saskatchewan and Montana.</p>

### 5.1.6 Noise and sound

Question/comment	Capital Power Response
Will the noise level increase (no will still be compliant with PSL)	<p>A noise impact assessment is being conducted by Stantec. Noise levels from the proposed project must comply with the AUC's Rule 012 – Noise Control. In addition, the Project will comply with noise level restrictions required by the County of Leduc's noise bylaws or potential conditions within the Development Permit issued by the County for the Project.</p> <p>Acoustic treatment of the buildings and placement of silencers on the air intakes of the gas turbines are some of the options that may mitigate sound generation from the power plant.</p> <p>Rule 012 allows for the permissible sound levels at the most impacted dwelling(s) from the noise boundary of the facility property during summertime conditions to be:</p> <ul style="list-style-type: none"> <li>○ 40 dBA nighttime</li> <li>○ 50 dBA daytime</li> </ul>
What would the noise level be at the Gun Club (i.e. Genesee Historical Arms Society)?	<p>Noise levels from the proposed project must comply with the AUC's Rule 012 – Noise Control. In addition, the Project will comply with noise level restrictions required by the County</p>



Question/comment	Capital Power Response
	of Leduc's noise bylaws or potential conditions within the Development Permit issued by the County for the Project.

### 5.1.7 General questions

Question/comment	Capital Power Response
Will Capital Power ever do coal gasification?	Coal gasification is not being considered by Capital Power at this time.
Will Capital Power ever consider building another coal plant?	Another coal facility is not being considered by Capital Power at this time. Under the federal coal regulations, no new coal-fired power generating unit may be built in Canada unless it incorporates a working carbon capture and storage system, which is currently not commercially viable.
Are there alternatives to the Project?	<p>Capital Power's consideration of Project alternatives includes the following assessment:</p> <ul style="list-style-type: none"> <li>• Non-build option: Current forecasts anticipate that there will be a future need for new power generation in Alberta (see Section 5.1.5). Capital Power believes that the Project offers a number of benefits and attributes in terms of meeting those future power needs.</li> <li>• Alternative site: Capital Power considered a number of different potential locations for the facility, both greenfield and brown-field locations across Alberta. The Genesee location was chosen because of its synergies with existing operations and infrastructure.</li> <li>• Development of another coal facility: Based on Alberta's projected power needs, the requirements of current Federal Coal Regulations legislation, environmental constraints and the capital costs associated with a new coal-fired facility (including carbon capture requirements), Capital Power believes this is not a viable option to the Project.</li> </ul>



Question/comment	Capital Power Response
	<ul style="list-style-type: none"> <li>Renewable fuel type (wind, hydro, solar): Current forecasts do not indicate that Alberta's future power needs can be met exclusively, or in large part by renewables. Capital Power will continue to assess opportunities for growth of its renewable generation assets. Capital Power already operates Alberta's largest wind farm, the 150 MW Halkirk Wind facility.</li> <li>A different turbine configuration: Capital Power assessed a variety of configurations for this facility. Based on forecast power needs, Alberta's market structure, economic and environmental considerations, the company believes the current technology configuration (see Section 5.1.1) is the best option for the Project.</li> </ul>
Will these display panels be posted on your website?	Yes, following the open house, the boards will be available on our website.

## 5.2 Stakeholders within 1.5 miles of the Consultation Boundary

The following questions were received as a result of phone calls and general discussions with landowners living within 1.5 miles of the Consultation Boundary.

Question/comment	Capital Power Response
How noisy will the Project be?	<p>Noise levels from the proposed project must comply with the AUC's Rule 012 – Noise Control. In addition, the Project will comply with noise level restrictions required by the County of Leduc's noise bylaws or potential conditions within the Development Permit issued by the County for the Project.</p> <p>Acoustic treatment of the buildings and placement of silencers on the air intakes of the gas turbines are some of the options that may mitigate sound generation from the power plant.</p> <p>Rule 012 allows for the permissible sound levels at the most impacted dwelling(s) from the noise boundary of the facility property during summertime conditions to be:</p>



Question/comment	Capital Power Response
	<ul style="list-style-type: none"> <li>○ 40 dBA nighttime</li> <li>○ 50 dBA daytime</li> </ul>
Is new transmission going to be required?	<p>No new transmission lines are proposed for this Project to transfer the energy from the Genesee Substation to the provincial power grid. The transmission lines that are currently under construction in the area are not associated with the Project. A small extension of the existing substation located on land within the GGS site will be required.</p>
Will you be requiring camps?	<p>We are not anticipating needing work camps, and did not use work camps during the construction of either Genesee 3 or Keephills 3.</p> <p>Capital Power will encourage workers to utilize the bussing that will be provided from various locations in the Edmonton area to transport them to and from the site.</p>
Will we see increased traffic because of the Project?	<p>Yes. However, Capital Power will encourage workers to utilize bussing to transport them to and from the site in-order to decrease vehicle traffic on local roads. We anticipate that the increased traffic during construction will be less than what was experienced during the construction of Genesee 3 because of a smaller peak labour force.</p> <p>The impact on traffic after construction is complete should be minimal, as it is anticipated that approximately 25 to 30 new employees will be necessary to operate GGS Units 4&amp;5</p> <p>Capital Power is committed to maintaining a safe travelling environment to our Genesee facility to minimize the possibility of future accidents involving our workers, contractors and neighbouring families.</p> <p>As always, Capital Power will be monitoring vehicle traffic along with Alberta Sheriffs and RCMP. Capital Power will encourage motorists that witness unsafe or aggressive driving behavior to report licence plate numbers and a</p>



Question/comment	Capital Power Response
	vehicle description.
Where will the Project be built?	The proposed project will be located on a brownfield site (previously disturbed) adjacent to the east-side of the existing GGS and on the west-side of Secondary Highway 770. It will utilize existing infrastructure (i.e. substation, transmission and water intake/discharge structures).

The following comments and questions were received from businesses that have operations or interests within 1.5 miles of the Consultation Boundary.

Company	Question/comment	Capital Power Response
<i>AltaLink</i>	<p>Noted AltaLinks' support for enabling all forms of generation that come forward.</p> <p>Noted the importance of robust transmission as a wholesale market enabler allowing the most efficient and competitive generation to reach consumers. Encouraged early engagement with the interconnection process.</p> <p>Noted that specific generator rotor dynamics need to be considered when integrating generation in close proximity to HVDC converters, which would be further reason to advance the interconnection process as soon as practical.</p>	Noted

### 5.3 Municipal governments

As noted in Section 3.2.3, Capital Power initiated contact with three municipal bodies. Due to expressed ongoing interests in the GGS, Capital Power engaged Leduc County and the Village of Warburg. Notification of the Project was provided to the Village of Thorsby.



On December 3, 2013, Capital Power met with representatives of Leduc County and the Village of Warburg. The following are comments and questions from that discussion.

Question/comment	Capital Power Response
Will any additional coal reserves be needed for existing plants?	The recent application to extend the mine permit area is to secure coal for the existing G1, 2 & 3 Units to the end of their life. No additional coal is anticipated to be needed for the current units.
Will any local county roads be impacted?	No, construction is taking place on Capital Power land. Only Highway 770 will see increased traffic during construction.
Will noise levels increase?	<p>Noise levels from the proposed project must comply with the AUC's Rule 012 – Noise Control. In addition, the Project will comply with any noise level restrictions required by the County of Leduc's noise bylaws or any potential conditions within the Development Permit issued by the County for the Project.</p> <p>Acoustic treatment of the buildings and placement of silencers on the air intakes of the gas turbines are some of the options that may mitigate sound generation from the power plant.</p> <p>Rule 012 allows for the permissible sound levels at the most impacted dwelling(s) from the noise boundary of the facility property during summertime conditions to be:</p> <ul style="list-style-type: none"> <li>○ 40 dBA nighttime</li> <li>○ 50 dBA daytime</li> </ul>
What is involved in the air emissions?	The results of the air emission studies will be published as part of the application and available at the next Project open house.
Is the East Alberta Transmission Line built yet? When will the AltaLink DC station be complete?	<p>This is a project managed by AltaLink. Detailed information is available on their website.</p> <p>According to AltaLink, the line will be in service in the spring of 2015. The expected completion of the substation is Q1 2015.</p>
Will the plant meet the demand in Alberta or will more generation be needed?	Even if Capital Power is successful in obtaining the required approvals and proceeds with the construction of the Project, current forecasts



Question/comment	Capital Power Response
	anticipate that more power generation will be required.
Does Ft. McMurray produce its own power, what do they burn?	Typically, industries in Fort McMurray will produce most of their own power required for operations. These generating stations use natural gas.
Does Alberta export power?	<p>Alberta has a dynamic, market-based system, and there are a number of factors (price, internal load, internal generation capacity) that determine whether, at any given hour, the province will import or export power.</p> <p>It is common for Alberta to both import and export power within a 24 hour period. During day time hours, it is typical for Alberta to import power from British Columbia and Saskatchewan. During late evening hours, Alberta will frequently export power to British Columbia.</p> <p>Overall, Alberta has traditionally been a net importer of electricity from BC, Saskatchewan and Montana.</p>
Will a socio-economic study be completed for the project?	As a provincial Environmental Impact Assessment is not required for the Project, a formal socio-economic study will not be completed. Capital Power will engage with groups and individuals who have expressed socio-economic / community matters concerns.

#### 5.4 First Nations and Metis

Capital Power has received a limited number of comments from First Nations and Metis to date. These include:

Group - date	Question/comment	Capital Power Response
Ermineskin Cree First Nation – December 5, 2013	<p>Stated a view that Capital Power must consult with the community.</p> <p>Noted that the community has a Consultation Policy and Procedure for industry proponents interested in developing or expanding within their</p>	Capital Power has indicated it will meet with and further discuss the Project with this community.



Group - date	Question/comment	Capital Power Response
	traditional land use areas.	
Lac St. Anne Metis – November 27, 2013	Requested addition to the Project mailing list	Contact name has been added.
Paul First Nation (PFN) – November 20, 2013	Verbally acknowledged receipt of Information Package.	Extended invitation to November 27 open house.
Enoch Cree Nation – November 20, 2014	Indicated in an e-mail interest in attending the open house. Noted that a response letter would then follow.	Noted.
Alexis Nakota Sioux Nation – November 19, 2013	Verbally acknowledged receipt of Information Package.	Extended invitation to November 27 open house.

Capital Power will continue its First Nations consultation process as directed by ESRD, as well as engage other communities in dialogue based on their interest.



## 5.5 Community Groups

Capital Power has not yet received direct and specific comments about the Project from Community Groups in the Genesee area.

## 5.6 Federal Agencies

Agency - date	Question/comment	Capital Power Response
CEAA – December 2, 2013	<p>Have received Project Description.</p> <p>The Agency has determined that the Project meets the definition of a designated project under the Canadian Environmental Assessment Act, 2012 (CEAA 2012) and that the Project Description submitted by Capital Power Corporation meets the requirements of the Prescribed Information for a Description of a Designated Project Regulations.</p> <p>Indicated that this has been posted on CEAA's website.</p>	<p>Noted.</p> <p>CEAA to make a determination by January 16, 2014 as to whether an environmental assessment is required for Project.</p>

## 5.7 Non-Governmental Organizations

Capital Power received questions and comments from representatives of two non-governmental organizations: the North Saskatchewan Watershed Alliance (NSWA) and the Prairie Acid Rain Coalition (PARC). A summary of these questions and responses is below:

Group	Question/comment	Capital Power Response
NSWA	<p>Regarding the statement "No additional diversion of water from the North Saskatchewan River (NSR) is required for the project," we would like to be clear whether this means:</p> <p>(a) no additional intake capacity being built, (b) no new Water Act allocation, or (c) no additional net water use over the amounts used by the existing units. If not (c), how much is the net water use expected to increase? Also, will the quantity (i.e. mass) of any contaminant discharged back to the NSR increase as a result of this project?</p>	<p>(a) No additional intake capacity is proposed to be built for the Project. The Project will utilize existing GGS infrastructure, specifically, the existing river water intake, pumphouse, cooling pond, and point of discharge to the NSR. These synergies will reduce any potential environmental effects due to the Project.</p> <p>(b) The Project will not require any additional diversion of water from the NSR beyond the</p>



Group	Question/comment	Capital Power Response
		<p>volumes already permitted under the current water licences issued by ESRD for the existing GGS. In short, Capital Power will not be applying for any additional water diversion for this Project.</p> <p>(c) Due to the addition of the Project, evaporative losses from the Genesee cooling pond are predicted to increase due to the additional thermal load by approximately 3.7 to 3.9 Mm<sup>3</sup>.</p> <p>(d) Concentrations of all modelled constituents are predicted to increase relative to the Base Case (existing conditions without G4 &amp; G5 Units), but the calculated in-stream concentration will remain close to Base Case levels because of relatively small blowdown flow rate compared to NSR flow rate. In-stream concentrations of all modelled constituents are predicted to remain below corresponding chronic guidelines and Water Quality Objectives (WQOs), except for fluoride. Predicted fluoride levels are slightly higher than guidelines (0.15 vs. 0.12 mg/L); however, fluoride concentrations in rivers and lakes of Alberta are typically at, or above, the chronic water quality guideline for the protection of aquatic life.</p>
PARC	<p>Has there been an assessment and/or modelling of the emissions that would be added to the Capital Region as a result of these units if they go forward? If so, please send the relevant studies.</p> <p>Are these units intended to replace the power production from coal fired units to be retired in the same general time frame?</p>	<p>No, an assessment of emissions for the Capital Region was not conducted for this Project. The Project is located in the West Central Airshed region and not the Capital Region. Consequently, Capital Power modelled efforts on ambient air</p>



Group	Question/comment	Capital Power Response
	<p>If so, what is the net increase or decrease of the relevant emissions moving from what may be being retired to these new units? Or are these units intended to be in addition to what is in place now?</p> <p>This is of importance because two ambient air monitoring stations in the Capital Region have already exceeded the Canada-Wide Standards for pm 2.5 and it is important in that context to understand the incremental impact these proposed new units are projected to have on Capital Region air quality.</p>	<p>quality focused on effects in the local study area as required by the Alberta Air Quality Model Guidelines.</p> <p>The Project is being developed to meet expected increases in Alberta's power requirements in the 2017-2020 timeframe, arising from continued economic growth and from the expected retirements of existing coal generating units (not Genesee). Under the federal coal regulations, approximately 870 MW of coal-fired generation is scheduled to retire in 2019, including:</p> <ul style="list-style-type: none"> <li>• Battle River 3 (149-MW)</li> <li>• Sundance 1 (288-MW)</li> <li>• Sundance 2 (288-MW)</li> <li>• H.R. Milner (144-MW)</li> </ul> <p>Based on the air impact study for the G4/G5 Project, the following conclusion can be made:</p> <ul style="list-style-type: none"> <li>• The Project will meet or exceed both the Clean Air Strategic Alliance's standards and Alberta's Ambient Air Quality Objectives and Guidelines.</li> <li>• Model predictions indicate that the maximum predicted concentrations of key substances of interest increasing less than 3% indicating that the Project is not expected to materially increase maximum concentrations of these substances within the <b>local study area</b>.</li> <li>• The Project is not</li> </ul>



Group	Question/comment	Capital Power Response
		anticipated to impact the Capital airshed, since the net increase is limited to the <b>local study area</b> only.

## 5.8 Synergy Group and other businesses

Capital Power has not received questions or comments from members of the Synergy Group, other than those noted in Section 5.2 from AltaLink.

## 5.9 Schools and other community groups

Capital Power has not received questions or comments from the schools which received copies of the Project Information Brochure.

## 5.10 Community Advisory Task Group (CATG)

The following are questions and comments that were asked of Capital Power during CATG meetings in June and October.

Note: these meetings occurred early in the Project planning phase and before Project information was publically available. The answer to most of these questions at the time was 'these and other project details will be available at the end of October when the Project is officially launched'. Their questions were used as a guide in developing the information that was initially provided to the public, and the CATG members were contacted directly by phone and email following the launch to ensure their questions were answered. Four CATG members attended the open house.

Question/comment	Capital Power Response
Will the Project require regulatory approval?	Yes, the Project is no different for other similar power generation projects in Alberta. It is subject to a regulatory process which includes an opportunity for public feedback.
How much space will the new facility require?	The proposed Project has a foot print of 200m x 300m compared to existing units at Genesee with footprint of 300m x 400m. The power generation building height is approximately 40 metres for the new units compared to Genesee 3 boiler building height of 69m.
What about the peregrines nesting at the GGS?	Capital Power has hosted a nesting box for



Question/comment	Capital Power Response
	<p>peregrine falcons at GGS since 2005 and is committed to maintaining a safe nesting area.</p> <p>The nesting box is located on the existing south stack of the GGS and it will not be impacted by construction activities or operations. The new stacks for the Project will be approximately half the height of the existing stacks.</p> <p>In the unlikely event the falcons are impacted by construction or operations, Capital Power will consult with ESRD to address any issues.</p>
Where will the Project be located?	<i>Address in 5.1.2</i>
What will the impacts be on traffic?	<i>See 5.2</i>
Will workers be driving into the Facility during construction?	<i>See 5.2</i>
Will there be new stacks on the plant?	<i>See 5.1.2</i>
Will a new gas pipeline be needed?	<i>See 5.1.1</i>
When could construction start?	<i>See 5.1.4</i>

## 6.0 How comments were considered by Capital Power

### 6.1 Key concerns or issues

Capital Power carefully considered all of the questions and feedback that it has received from stakeholders to date. The following outlines key issues raised by stakeholders and how feedback was, or will be, incorporated into the design and planning of Project, where possible.

Area of interest	How interests were addressed by Capital Power
Facility location / utilizing existing footprint / Minimizing impacts by using existing infrastructure	<p>A number of stakeholders asked Capital Power to clarify the location of the Project.</p> <p>Stakeholders had positive responses to Capital Power's decision to situate the Project on a brownfield site adjacent to the east-side of the existing Genesee Generating Station (GGS). Capital Power will minimize additional impacts and land disturbance by utilizing the existing infrastructure of the GGS, where possible (i.e. substation, transmission and water intake / discharge</p>



Area of interest	How interests were addressed by Capital Power
	<p>structures).</p> <p><b>To date, Capital Power has not received objections or heard concerns arising from its decision to locate the Project at this site.</b></p>
Traffic concerns, Hwy 770	<p>Capital Power responded that it will work to minimize traffic increases during construction by encouraging workers to utilize bussing to transport them to and from the site.</p> <p><b>Capital Power will take the steps described to minimize traffic increase.</b></p>
Air Emissions	<p>The maximum predicted concentrations for NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>2.5</sub>, CO and NH<sub>3</sub> associated with emissions from the Project (G4 and G5 alone) for all relevant averaging periods are predicted to be much lower than the Alberta Ambient Air Quality Objectives (AAAQO).</p> <p>In combination with the existing and approved facilities in the region, modelling indicates that NO<sub>2</sub>, PM<sub>2.5</sub>, and CO concentrations are influenced by the nearby Genesee Mine and haul roads and SO<sub>2</sub> is influenced primarily by the existing GGS (G1-3) and Genesee sour gas plant. Highest concentrations are predicted to occur near the Mine, haul road, and GGS plant areas and decrease with distance from the respective emission sources. Maximum predicted NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>2.5</sub>, CO, Hg, and NH<sub>3</sub> at all sensitive receptors are predicted to be less than the AAAQO. Maximum predicted NO<sub>2</sub>, SO<sub>2</sub>, PM<sub>2.5</sub>, CO, Hg, and NH<sub>3</sub> at all areas outside of the Genesee Mine Permit Boundary are also predicted to be less than the AAAQO, except for the 24-hour, 30-day, and annual SO<sub>2</sub> concentrations in a small area surrounding the Genesee sour gas plant.</p> <p>Model predictions indicate little difference between Base Case and Application Case results, with maximum predicted concentrations of key substances of interest increasing less than 3% indicating that the Project is not expected to materially increase maximum concentrations of these substances within the study area.</p>
Water diversion, re. North Saskatchewan River (NSR)	<p>Capital Power received one question regarding water volumes from the NSR. The company responded that it would not require any additional diversion of water from the NSR beyond the volumes already permitted under the</p>



Area of interest	How interests were addressed by Capital Power
	<p>current water licences issued by ESRD for the existing GGS. Capital Power will not be applying for any additional water diversion for this proposed Project.</p> <p><b>To date, Capital Power has not received objections or heard concerns arising from this matter.</b></p>
Facility noise	<p>Capital Power received several questions relating to noise from the facility. The company clarified that the Project must comply with the AUC's Rule 012 – Noise Control.</p> <p>Capital Power had a Noise/Sound specialist attend its November 27 open house to provide further information on this subject.</p> <p><b>Capital Power has received no further concerns or questions on this matter.</b></p>
Import/export of electricity	<p>Capital Power received several questions relating to this general area. Company explained:</p> <ul style="list-style-type: none"> <li>• Capital Power is not considering exporting electricity generated by the Project to the United States.</li> <li>• That the Project is being developed to supply incremental power demand being forecast for Alberta as well as demand that will be left unsupplied once older coal units (not Genesee units) reach legislated end-of-life.</li> <li>• Alberta has traditionally been a net importer of electricity from BC, Saskatchewan and Montana.</li> </ul> <p><b>To date, Capital Power has not received objections or heard concerns arising from this matter in relation to the Project.</b></p>
Future of the existing Genesee Units	<p>Capital Power clarified that it will continue to operate the existing coal-fired units until their legislated end-of-life.</p> <p>Under the Federal Coal Regulations Capital Power's oldest coal-fired unit (G2) which was commissioned in 1989 will reach the 50 year retirement in 2039. Likewise, G1 and G3 will reach their retirement age in 2044 and 2055 respectively.</p> <p><b>To date, Capital Power has received no objections or further concerns arising from this matter in relation to the Project.</b></p>

## 6.2 Conclusion



The company has not received to date Stakeholder objections regarding the Project. Based on stakeholder consultation undertaken to date, Capital Power has not received comments, questions or concerns that are not already incorporated into the design, or which would cause the company to modify or adapt its planning and design of the Project.

## **7.0 Future Activities as part of the Participant Involvement Process**

Capital Power plans to continue PIP activities throughout 2014, following the submission of its Facility Application to the AUC. The following outlines anticipated activities.

### **7.1 Open House #2**

Capital Power will hold a second open house on the Project. The date for this event is anticipated for late-February 2014.

The goals of the second open house will be to:

- Follow-up on stakeholder questions, as outlined in Section 5.1;
- Seek additional questions and comments from stakeholders;
- Provide another opportunity for direct discussion with Project team members.
- Provide an additional opportunity for personal consultation for residents living in 1.5 miles of the Project Area;
- Share additional technical information and the results of air, noise and water studies; and,
- An opportunity to comment on the Project, whether directly to Project team members or on a comment form provided by Capital Power.

Similar to Open House #1, information about the open house will be conveyed in the following way:

- Advertisements in local newspapers at least two weeks prior to the open house (see section 4.2)
- Mailed information to stakeholders
- A road sign placed on Hwy 770 at least two weeks prior to the open house
- Phone contact with residents living 1.5 miles from the consultation boundary.

### **7.2 Personal consultation**

Capital Power's team will continue to directly engage stakeholders, with a focus on two activities:

- 1) Direct meetings with stakeholders, or stakeholder groups, who request meetings.



- 2) Personal contact initiated by Capital Power, with a focus on landowners living in 1.5 miles of the facility. This will occur by phone and in-person.

### **7.3 Mailout**

Capital Power will undertake a second mailout to the Project stakeholder list, which will include stakeholders who requested information following the first mailout in early November. The second mailout is anticipated for late January 2014 and will include:

- A letter from the Project lead, highlighting updates on the Project;
- Supplemental information, as appropriate;
- The latest issue of the Genesee Connection Newsletter; and,
- Contact information related to the Project.

### **7.4 Newsletter featuring the Project**

Capital Power will circulate its regular newsletter (*Genesee Connection*) to its general community distribution list in January 2014. The newsletter will feature information on the Project, with a focus on providing responses to questions received at the November 27, 2013 open house. The newsletter will also notify community members about the second open house.

### **7.5 Project information on website**

Capital Power will continue to update its website with relevant information as this becomes available. This will include:

- The regulatory applications filed with the AUC and ESRD.
- Information from Open House #2.
- Additional information, as applicable

## **8.0 Reference material**

The following is the material that Capital Power provided as part of its Participant Involvement Process.



## **8.1 Project Information Brochure**



# Genesee Generating Station

Units 4 & 5

A New Power Generation Opportunity for Alberta

Fall 2013





## A New Power Generation Facility for Alberta

Capital Power is proposing to build the Genesee Generating Station Units 4 and 5 (the Project), a combined cycle natural gas-fired generation facility. Capital Power, together with potential partner(s), plans to construct and operate the Project on a site adjacent to the existing Genesee Generating Station. The Project's generation capacity will be up to 1,050 megawatts (MW), and construction will be in two phases with each phase being approximately equal. The in-service date for both units is currently expected to be in the 2017-2020 range. The expected life of a natural gas-fired facility is generally 35 years.

## Utilizing the Existing Genesee Generating Station Lands

The proposed Project is located 50 kilometres west of Edmonton (Section 25, Township 50, Range 3, west of the 5th Meridian) and is within the County of Leduc. The building area is entirely within the boundaries of the existing Genesee Generating Station, which is owned by Capital Power. Previously used as a construction laydown area, the Project site is considered 'brownfield.' Construction will occur in an area of about 5 hectares (14 acres).



## Helping Meet Alberta's Power Generation Needs

The Project is being developed to meet anticipated increases in Alberta's power requirements arising both from continued economic growth in the province and from the expected retirement of existing coal generating units in the 2020 timeframe. According to the Alberta Electric System Operator (Feb 2013), peak demand will grow from 10,600 MW to 14,600 MW by 2020 or by an average of 500 MW per year. Situated in central Alberta, the Project is close to existing transmission infrastructure, as well as important electrical load centres such as Edmonton and outlying industrial areas. Using an abundant fuel such as natural gas, this facility will provide a reliable, clean and efficient alternative for new generation in Alberta.



1—Proposed Project Site; 2—Genesee Units 1, 2 and 3; 3—Genesee Switchyard; 4—Genesee Cooling Pond; 5—Hwy 770.





Rendering of proposed Genesee Units 4 & 5.



## Generation Technology

Capital Power is proposing to utilize advanced combined cycle natural gas-fired turbine technology (CCGT) for the Project. The CCGT process begins with a natural gas turbine generator which produces power and heat when in operation. The heat creates steam which drives a steam turbine generator. As a “combined” process, the gas turbine and steam turbine together generate power with greater efficiency and lower emissions than with a single process.

The Project is proposed as two identical combined cycle systems which could achieve a combined gross capacity of up to 1,050 MW. Each generating unit consists of a natural gas-fired turbine and generator, a heat recovery steam generator, and a steam turbine and generator. The structures housing the generating units will be approximately 200 metres by 500 metres, and about 30 metres high. Cooling water for the generation units will be obtained from the inlet channel of the existing Genesee Cooling Pond, and will pass once through the plant and then be released through the outlet channel back into the pond. Changes will not be required to the current water intake and return channels to the North Saskatchewan River.

Electricity generated by the Project will be transmitted to the adjacent Genesee Substation. In order to deliver the power to Alberta’s power grid, a minor expansion will be completed on the existing Genesee Substation. No new transmission lines are proposed for this Project to transfer the energy from the Genesee Substation to the provincial power grid.

An underground natural gas pipeline will be developed for the Project and will be approximately 78 kilometres in length. The pipeline will connect to an existing high-pressure line in the area and will require a separate regulatory approval process prior to construction.

## Environmental Performance

The Project will be one of Alberta's most advanced generation facilities and will feature a number of environmental attributes:

- No additional diversion of water from the North Saskatchewan River is required for the Project.
- Advanced combined cycle natural gas-fired turbine technology ensures greater efficiency and will help Alberta continue to reduce greenhouse gas emissions.
- The facility will use advanced emission-control technology, significantly reducing emissions such as nitrogen oxides (NO<sub>x</sub>).
- The facility will be constructed on a ‘brownfield’ (i.e. previously disturbed) site and will utilize existing infrastructure (i.e. substation, transmission and water intake/discharge structures).
- The Project will use advanced generation technology and will be designed to meet Alberta’s air emission standards and performance expectations.

*The lands comprising the Genesee Generating Station have been in use for power generation since 1989. There are currently three generating units on the site, with a combined maximum capacity of 1,266 MW.*



## Participant Involvement Program

Capital Power is committed to sharing information on the Project and receiving input from our neighbours and stakeholders. Capital Power has commenced this process by developing several opportunities for information exchanges. These include:

- Project information mailed to local landowners and other stakeholders.
- Project information on Capital Power's website ([www.capitalpower.com](http://www.capitalpower.com)).
- An open house to discuss the Project directly with project team members.
- An opportunity for all interested stakeholders to provide comments to Capital Power by phone, e-mail and mail.
- An Aboriginal Engagement Program.

Capital Power will document stakeholder comments to ensure all questions and concerns are addressed.

## Project Schedule

Capital Power anticipates submitting regulatory applications for the Project by late 2013 or early 2014. Separate applications will be made to the Alberta Utilities Commission and Alberta Environment and Sustainable Resource Development. Prior to construction, we will apply to Leduc County for building and other development permits.

A number of key environmental studies for the Project have commenced including air, water and noise assessments. We will be sharing information on these studies with stakeholders at an open house on November 27th, 2013 at the Genesee Community Hall.

Pending a successful outcome of the regulatory review, we anticipate construction to begin in late 2014 or early 2015. Construction of the first phase of the Project is expected to take three years, with the second phase taking an additional year to complete.

## Jobs and Contracting Opportunities

The on-site construction employment will occur over a three to four year period, creating approximately 1,200 person-years of employment. At peak construction, there will be about 850 people working on the Project. During operations, 25 to 30 full-time positions will be required.





## Capital Power – Alberta Experience and Commitment

Capital Power is one of Alberta's largest and most experienced power generation companies, both in terms of building and operating energy facilities. We currently own over 1,900 MW of power generation in Alberta. These facilities are fuelled by coal, natural gas and wind, including Alberta's largest wind farm, the 150-MW Halkirk Wind Operation. In late 2012, Capital Power announced that it had acquired a 50% interest in the Shepard Energy Centre, an 800-MW gas-fired facility being constructed by Enmax in Calgary. Our construction expertise has been strengthened over the last three years with the completion of the Keephills 3 Generating Station near Lake Wabamun and wind power facilities in Alberta, British Columbia and Ontario.

*Capital Power's 2012 Corporate Responsibility Report can be found at [www.capitalpower.com/corporateresponsibility](http://www.capitalpower.com/corporateresponsibility)*



*Capital Power owns and operates Alberta's largest wind farm, the 150 MW Halkirk Wind Project.*



*Capital Power's vision is to be recognized as one of North America's most respected, reliable, and competitive power producers.*



## We Want To Hear From You

Capital Power values your input into the proposed Genesee Units 4 & 5 Project. We have launched a participant involvement program to share information with stakeholders and obtain input on our proposal.

**Contact by phone or e-mail:**

Toll Free: (Alberta) 1-866-348-3946  
Local: 780-848-8474  
Fax: 780-392-5124  
[publicconsultation@capitalpower.com](mailto:publicconsultation@capitalpower.com)

**Contact by mail:**

Genesee Units 4 & 5  
Capital Power Corporation  
12th Floor EPCOR Tower  
10423 101 Street NW  
Edmonton, AB T5H 0E9

**Website:**

[www.capitalpower.com](http://www.capitalpower.com)

### Open House

4:00 pm to 8:00 pm  
Wednesday, November 27, 2013  
Genesee Community Hall  
Genesee, Alberta





## 8.2 Sample Stakeholder Letter



---

November 6, 2013

Address  
Address  
Address

Dear Stakeholder

**Re: Proposed Genesee Generating Station Units 4 & 5**

Enclosed is information about a new power generation facility that Capital Power is proposing to construct within the existing Genesee Generating Station footprint. You are receiving this letter because you own or reside on land within 1.5 miles of the proposed plant site or have an interest in the Genesee operation.

Previously known as the Capital Power Energy Centre, the proposed facility has been renamed as Genesee Generating Station Units 4 & 5 ("the Project"). The proposed Project consists of two natural gas-fired systems which could achieve a combined gross capacity of up to 1,050 MW.

Capital Power is committed to sharing information on the Project and receiving input from our neighbours and stakeholders. We have begun our participant involvement program for stakeholders, with input being included in the applications that Capital Power will make to the Alberta Utilities Commission ("AUC") and Alberta Environment and Sustainable Resource Development ("ESRD").

The material in the enclosed package will provide you with further information on the Project and how you can become involved in the consultation program. The package includes:

- An information document with background on the Project including location, need, anticipated schedule, maps and contact information, and;
- A brochure on the AUC's process for public involvement in facilities applications.

We would like to invite you to an open house to review information and ask questions:

**Project Open House  
Genesee Hall  
Wednesday, November 27<sup>th</sup>  
4-8pm, drop-in style  
Chili supper**

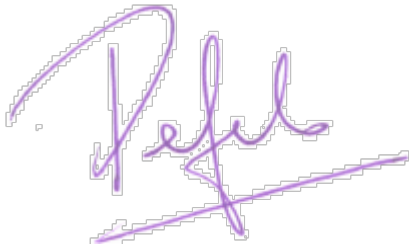


To provide comments or ask questions, or to request further information about the Project, please contact us:

- Website: [www.capitalpower.com](http://www.capitalpower.com);
- Email: [PublicConsultation@capitalpower.com](mailto:PublicConsultation@capitalpower.com)
- Phone: (780) 848-8474 or 1-866-348-3946 (toll free in Alberta).
- Visit us at the Genesee Land Management Trailer (just inside the entrance to the Genesee Generating Station off of Highway 770
- Mail:  
Genesee Units 4 & 5 Participant Involvement Program  
c/o Capital Power  
1200 – 10423 101 Street NW  
Edmonton, Alberta T5H 0E9

I look forward to discussing the project with you in the future.

Sincerely,



Patricio Fuenzalida  
Project Lead, Genesee Units 4 & 5

Cc: Sean Furey, Plant Manager, Genesee Generating Station  
Jennifer Lowry, Public Consultation, Capital Power











### **8.3 Copies of web-page**



SHARE   

## Contact



Capital Power announces major expansion plans in Alberta and provides updates at annual Investor Day  
December 6, 2012

Capital Power reports third quarter 2013 results  
October 25, 2013

Background – Proposed Genesee  
Generating Station Units 4 & 5  
Fall 2013

November 27 Open House  
Notification

November 27 Open House Display Panels

*"I'm excited about the prospect to have ENMAX as our partner in the Genesee 4 & 5 facility in Alberta," said Brian Vaasjo, President and CEO of Capital Power. "This agreement builds on a similar partnership that we have on the Shepard Energy Centre and reinforces our leadership position in the attractive Alberta market."*

The in-service date for both units is currently expected to be in the 2017-2020 range. The expected life of the facility is approximately 35 years.

The map illustrates the proposed units 4 & 5 site, marked with a star. The site is located near the intersection of Highway 720 and Highway 770. The map shows the North Saskatchewan River flowing through the area, with a transmission line crossing it. Key locations include Genesee Park, Genesee Plant, Cooling Pond, Genesee Hall, and Genesee Mine Office. The map also indicates directions to Stony Plain and Edmonton to the north, Warburg and Leduc to the south, and Strawberry Hall to the east. A legend in the top right corner defines the symbols used: a green line for the Transmission Line, a blue line for the North Saskatchewan River, and a star for the Site for Proposed Units 4 & 5.

Capital Power anticipates submitting regulatory applications for the Project by late 2013 or early 2014. Separate applications will be made to the Alberta Utilities Commission and Alberta Environment and Sustainable Resource Development. Prior to construction, we will apply to Leduc County for building and other development permits.

[CEAA Call for Public Comment](#)

Capital Power Generation Service Inc. is proposing to expand its existing Genesee Generating Station by constructing and operating two natural gas-fired power plants located approximately 17 kilometres north of Warburg in Leduc County, Alberta. The power plants, expected to operate for about 35 years, would have a combined generating capacity of up to 1,050 megawatts.

Genesee Generating Station Expansion Project  
Canadian Environmental Assessment Agency  
425-10115 100A Street  
Edmonton, AB T5J 2W2  
Telephone: 780-495-2037  
Fax: 780-495-2876



Email: [Genesee@ceaa-acee.gc.ca](mailto:Genesee@ceaa-acee.gc.ca)

To view a summary of the project description or for more information on the project and the environmental assessment process, visit the Agency's website at [www.ceaa-acee.gc.ca](http://www.ceaa-acee.gc.ca) (Registry reference number 80059). All comments received will be considered public.

The Agency will post a decision on its website stating whether a federal environmental assessment is required.

If it is determined that a federal environmental assessment is required, the public will have three more opportunities to comment on this project, consistent with the transparency and public engagement elements of CEAA 2012.

Projects subject to CEAA 2012 are assessed using a science-based approach. If the project is permitted to proceed to the next phase, it will continue to be subject to Canada's strong environmental laws, rigorous enforcement and follow-up, and increased fines.

The Canadian Environmental Assessment Agency administers the federal environmental assessment process, which identifies the environmental effects of proposed projects and measures to address those effects, in support of sustainable development.

SOURCE Canadian Environmental Assessment Agency

Last reviewed December 5, 2013

[Privacy Policy](#) | [Policies for Contractors](#) | [Employee Login](#)

<http://www.capitalpower.com/generationportfolio/constructiondevelopment/Pages/G4and...> 12/10/2013



#### **8.4 Copy of October Genesee Connection Story on the Project**



# OCTOBER 2013 CONNECTION

## Dear Friends and Neighbours!

I hope everyone has had a great summer and a gentle start to the fall.

If you were near the plant on September 4, you may have heard an alarm sounding. This was part of an emergency response drill that we undertook that day. As part of our continual focus on safety at every step in our operations, it's essential that we have solid emergency response plans in the event of an emergency. More on the exercise can be found on page 2.



**The Emergency Response Crew prepares to enter the situation area.**



**A cougar strolls past a 'game cam' on Genesee lands.**

Capital Power continues to work with Hunting for Tomorrow in providing hunters access to Genesee lands. Information on the registration process is also found in this issue. I want to wish everyone a safe and productive fall, particularly those who will be at work on the harvest in the coming weeks.

**SEAN FUREY, Plant Manager**  
Genesee Generating Station, Capital Power



**Sean Furey.**

## Genesee Station Tours – November 16

Capital Power is once again offering tours of the Genesee Generating Station to local community members. The tours will provide a close look at key elements of the operations of all three Genesee units, including the boilers and the turbine houses. "We are happy to be hosting the tour again. It's a great way to connect with our neighbours," said Genesee Plant Manager Sean Furey.

Pre-registration is required. There are two tour times: 9:00 am & 11:00 am and space is limited to 40 people (20 per tour time). The tour is limited to those over the age of 10 years and participants are required to complete a security clearance. Cameras, camcorders or tape recorders are not permitted. As this is a walking tour, with access by elevators and stairs, closed toed shoes and long pants are required. There will be several safe exposures to heights. Participants must register before Friday, October 25. To register please contact **George Greenhough (780-969-8618** or [ggreenhough@capitalpower.com](mailto:ggreenhough@capitalpower.com)) or **Jennifer Linder (780-969-8706** or [jlinder@capitalpower.com](mailto:jlinder@capitalpower.com)).

## GENESEE STATION

BOX 20, SITE 2, RR #1  
WARBURG, ALBERTA T0C 2T0 CANADA



## New Generation Facility Discussed for Genesee

In December 2012, Capital Power announced its intention to pursue development of a new natural gas-fired generation facility in Alberta. After a careful assessment of potential sites for the facility, Capital Power announced in April 2013 that it had selected a location at the Genesee Generating Station (GGS). The facility would be contained within the existing footprint of the GGS, and located adjacent to Genesee 3 to the east.

Regulatory approvals from both the Alberta Utilities Commission and Alberta Environment and Sustainable Resource Development are required before Capital Power may proceed with the plant. A consultation process with area stakeholders will take place as part of this effort. At present, Capital Power anticipates that the facility will be developed in two phases, each of which could generate 400 to 500 megawatts.

Pending regulatory approval, the facility would be built to coincide with the need for more power generation in the Alberta market place, which we anticipate to be in the 2017–2020 time frame.

Capital Power is currently developing the project details and working with the provincial and federal regulators to determine the requirements for the application. More information will be provided as it becomes available and we look forward to discussing this project with our neighbours.

## Genesee Emergency Response Exercise



**The drill included rescue and medical aid procedures, the 'victim' being a mannequin.**



**The Genesee Fire Brigade at work during the exercise.**

On Wednesday, September 4, the staff at Capital Power's Genesee Generating Station (GGS) held a drill as part of testing emergency management capabilities at the plant. The exercise involved over 200 staff as well as the RCMP, fire and medical responders.

"Capital Power dedicates significant time and resources to making sure our people can respond to emergencies and unplanned situations," says Emergency Planning Manager Levi Ellis. "We hold emergency exercises to test our plans, reinforce what we already do well, and look for areas that need further attention."

As part of the drill, GGS activated three key teams: the fire brigade, the emergency response team, and medical responders. GGS staff also tested their evacuation and muster procedures.

The drill provided Levi and other plant managers with information to further refine and improve emergency management processes over the short and long term.

## Hunting for Tomorrow – 2013 Season



**Wildlife captured by a game-cam set on Genesee lands.**

Capital Power is pleased to be working with Hunting for Tomorrow for the ninth consecutive year. The 2013 hunting program will continue to include primitive weapons such as black powder rifles, crossbows, shotguns with slugs and bow hunting.

"We've developed a great partnership with Capital Power over the years," said Kelly Semple, Executive Director of Hunting for Tomorrow. "The Genesee lands provide us with a fantastic environment to practice some elemental hunting skills and forms. In turn, participating hunters provide great information about game and the overall environment."

Individuals wishing to hunt on Genesee lands must register through Hunting for Tomorrow. Follow-up information is sought by hunters about the kinds of animals they saw while in the field, which is valuable in managing overall land use.



## 2012 Hunting Season Statistics



- 64 individuals registered for the Hunting for Tomorrow program at Genesee
- 49 quarter sections of land were made available for hunting
- There were 138 days of hunting
- Two white tail bucks and two moose were taken in the hunt

For more information or to complete the application to hunt at Genesee, please visit [www.huntingfortomorrow.com](http://www.huntingfortomorrow.com). Applicants are required to complete the registration form. This will be followed by a detailed registration package with the rules and guidelines for hunting on this property.

### Questions About Water Fowl Hunting

Capital Power does not permit the hunting of ducks and geese on Genesee lands. This is due to the proximity of the main wetlands to mine activities and the plant, which makes fire arms discharge a safety concern.

## Public Coal Sales

Many people use coal as an economical source of fuel for heating their homes or greenhouses. Again this winter, public coal sales are available at Genesee Station by appointment only on Saturday mornings. Please contact **Lorne** or **Sharon Lawrence** at **780-789-2117** to book an appointment.

The coal is sold in "mini bulk" bags containing a minimum of one tonne of coal at a cost of \$45 including GST per bag. The lump coal is screened and is approximately three inches in size and larger.

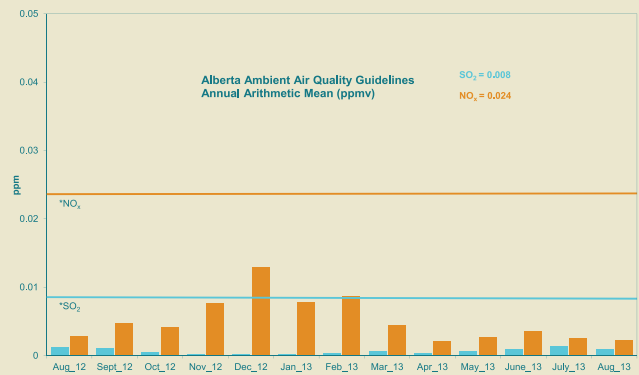
## Genesee Station Environmental Performance

The following graphs show the most recent environmental performance results:

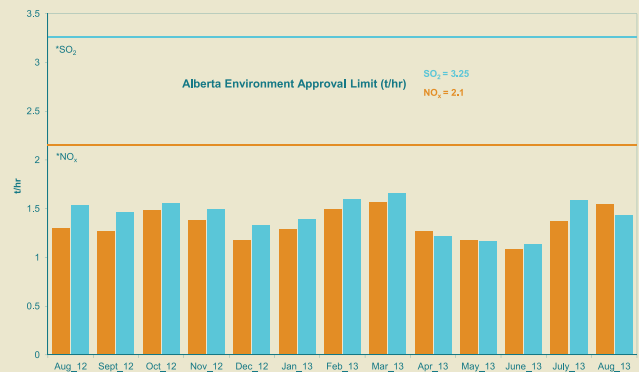
- Ambient air quality as measured by the Genesee ambient air monitoring trailer;
- Stack emissions for stack one (for generating units 1 and 2);
- Stack emissions for stack two (for generating unit 3).

Measurements are compared to guidelines and approval limits set by Alberta Environment. Genesee continues to operate below maximum levels set for ambient air quality and stack approval limits.

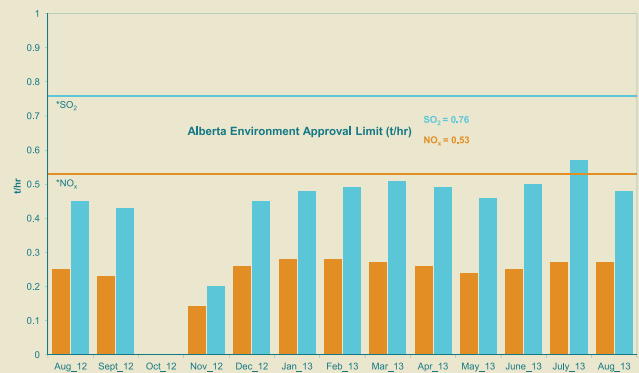
### AMBIENT EMISSION LEVELS



### G1/2 EMISSION LEVELS



### G3 EMISSION LEVELS



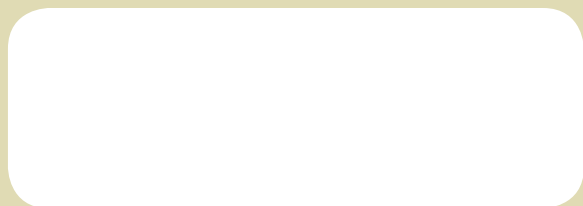
**\*Sulphur Dioxide (SO<sub>2</sub>):** a strong smelling, colourless gas that is formed by the combustion of fossil fuels. In high concentrations, SO<sub>2</sub> is known to be harmful to vegetation and human health. SO<sub>2</sub> is soluble in water and excessive levels can lead to sulfuric acid deposition or acid rain.

**Nitrogen Oxides (NO<sub>x</sub>):** the term used to describe NO (nitrogen oxide), NO<sub>2</sub> (nitrogen dioxide) and other nitrogen oxides. The major sources of man-made NO<sub>x</sub> are high-temperature combustion processes, such as those occurring in automobiles and power plants. When concentration is high, NO<sub>x</sub> is of concern because it contributes to ground-level ozone or smog. Genesee 3 approval limits are based on a 720 hour rolling average.

**Note:** All results are converted to reference standard conditions so as to be comparable to other coal fired plants in Alberta and elsewhere, and are dry concentrations corrected to 50% excess air; ppm: parts per million. An example of the quantity of Sulfur Dioxide and Nitrogen Oxides measured at ambient air sites in parts per million would be equal to approximately 1/100th of a grain of salt per breath of air. G3 has separate approval limits from G1 and G2 for its stack emissions. G3 approval limits are in terms of a mass emission rate (i.e. tonnes per hour). To be consistent for all units, we have shown G1 and G2 emissions and limits in tonnes/hour as well.



12TH FLOOR EPCOR TOWER  
1200 – 10423 101 STREET NW  
EDMONTON, AB T5H 0E9



## GENESEE CONTACT INFORMATION

Below are some contact numbers if you have questions or comments about our operations, community outreach or our land management practices:

Generating Station Reception  
**780-848-8300**

Community Consultation,  
**780-848-8474**  
**[PublicConsultation@capitalpower.com](mailto:PublicConsultation@capitalpower.com)**

Manager, Environment & Land Services  
George Greenhough **780-969-8618**

Genesee Guardhouse  
(24-hour Security)  
**780-969-8505**

Capital Power Website  
**[www.capitalpower.com](http://www.capitalpower.com)**



We are proud community members and appreciate receiving feedback from our neighbours about how we can improve our business practices, communication and our outreach.

To help us keep our records up to date and ensure you continue to receive this newsletter, please contact Capital Power Genesee Community Consultation if you are moving, your contact information changes, or if you prefer we do not store or use your personal information.

Capital Power respects your right to privacy. Any personal information Capital Power collects about you, including your name, address, phone number and email address, will only be used to contact you for the purposes of the consultation process. For further information, please see Capital Power's Privacy Policy at **[www.capitalpower.com](http://www.capitalpower.com)**.



## **8.5 Newspaper advertisements on Project and Open House**



# STAR Catholic Board and teachers association ratify agreement

## Submitted

Following a meeting of the Alberta Teacher's Association (ATA) Local on October 24, where members voted to ratify the Memorandum of Agreement (MOA) with St. Thomas Aquinas Roman (STAR) Catholic School Division, the two parties are pleased to announce the MOA has now been ratified by both parties.

This labour agreement represents a period of successful collaboration to reach a new Collective Bargaining Agreement that is in the best interests of both STAR Catholic students and their teachers.

The MOA was ratified by the STAR Catholic Board of Trustees at their regular meeting on Oct. 16.

"We've had a positive relationship with our teachers for many years, and we're pleased that with this new agreement, that relationship can continue into the future," said STAR Catholic Board Chair Sandra Bannard.

"At the end of the day, I believe we're all working for the best interests of our students, and by mutually-agreeing to this MOA, we're ensuring those

interests are well protected," said Ann Bourassa, president of Alberta Teachers' Association Local 8.

"It feels great to get an agreement done, because now our teachers can put more focus on the job of educating students," said Bourassa. "And it's an achievement to get it done well before the provincial deadline of Dec. 31. It speaks to the respectful way negotiations were handled by our teachers and the Board."

Some highlights of the MOA include:

- The Educational Subsidy Program that reimburses teachers for graduate study tuition has now been formalized in the Collective Bargaining Agreement.
- Effective September 1, 2014, employer-paid premiums for benefits will increase to 97.5 per cent, and effective Sept. 1, 2015, benefits will increase to 100 per cent.
- The Division Health Spending Account available to teachers will be changed from an annual to a quarterly

plan, effective Sept. 1, 2014.

Effective Sept. 1, 2013, the Division will ensure that school-based principals will be granted two paid leave days per school year, at a time mutually agreeable to the principal and the superintendent or designate, in recognition of extra hours of service provided outside of regular school hours.

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*STAR Catholic Schools' team of teachers and support staff are committed to giving more than 3,300 students across our division every opportunity to achieve their potential in a caring, safe and Christ-centred environment.*

*For more information visit [www.starcatholic.ab.ca](http://www.starcatholic.ab.ca).*

## Proposed Genesee Generating Station Units 4 & 5

### Project Information & Notice of Open House

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**DR. KAREN MARCOS**  
#100, 5019 - 49 Ave., Leduc

## THANK YOU



Thank You for your support and giving me the opportunity to represent and work for you for the next four years to assure road programs continue and Leduc County remains a viable place to live work and play.

### Project Open House

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4:00 pm to 8:00 pm  
Genesee Community Hall, Genesee, Alberta

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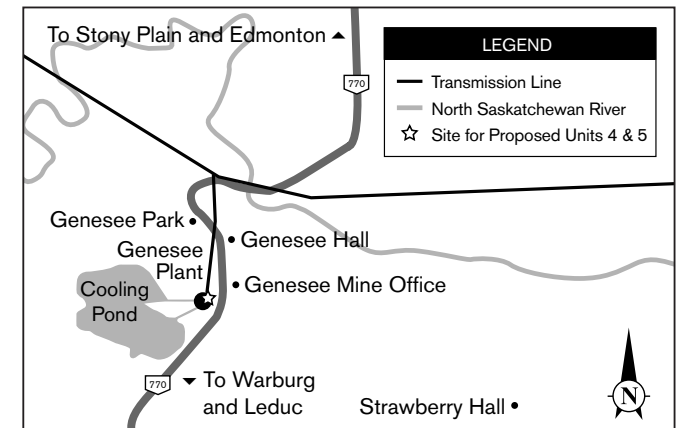
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10423-101 Street NW  
Edmonton, AB T5H 0E9  
[www.capitalpower.com](http://www.capitalpower.com)

**Capital Power**





# Surviving grief

Submitted by the Co-ordinated Suicide Prevention Program

Jane Fonda, Sir Winston Churchill, Robert Frost — other than being famous, what do all these people have in common? They have all lost someone very close to them to a death by suicide — children, spouses or parents. They are all survivors of suicide.

Saturday, Nov. 23, marks the 2013 International Survivors of Suicide day. This is a day in which survivors can come together in our community for healing and support.

Having a loved one die by suicide is very traumatic.

It is similar to dealing with a loved one who dies an unexpected or violent death however it can be accompanied by intense shame, guilt and confusion — shame due to societal stigma about suicide; guilt over whether they could have prevented the death; and, confusion in trying to understand why.

These extra stressors lead to what has been termed a “complicated grief” which can lead to depression and post-traumatic stress disorder.

Sadly, due to this societal stigma, survivors of suicide often receive less support and compassion than that offered to people grieving other losses.

How can we help our community's survivors of suicide? First of all we need to stop the stigma. There should be no shame in being a survivor of suicide.

According to the Harvard Mental Health association, there are ways to help survivors cope with suicide loss:

Normalize the grief. We should encourage survivors to engage in the same rituals they would use to grieve any death.

Plan ahead. We can help the survivor find ways to mark a loved one's birthday, holidays, or other milestones.

Make connections. We can provide information about support groups and resources specifically for survivors of suicide loss.

On Nov. 23, the Co-ordinated Suicide Prevention Program (CSPP) is hosting an event for survivors of suicide — Hands of Hope. If you would like more information on this event or on bereavement groups in the area, please contact the CSPP office at 780-963-1770 or cspp@thespf.org. The event runs from 10:30 a.m. to 3:30 p.m. at the Stony Plain Public Library. It is free but registration is required.

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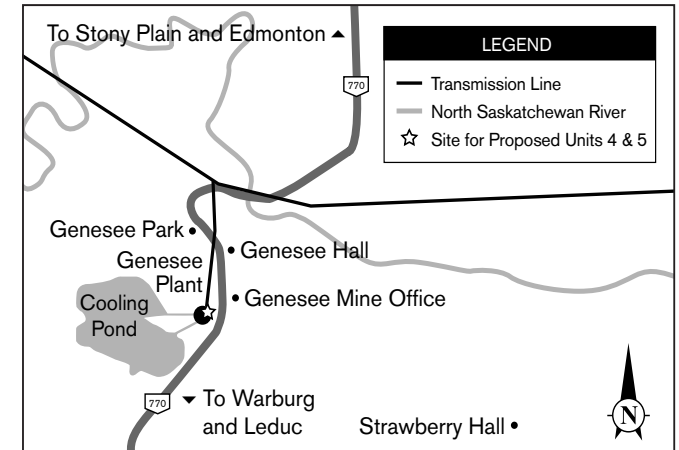
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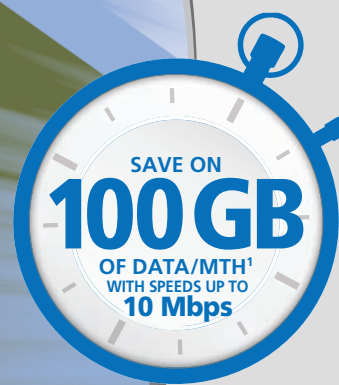


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# Pro God Remarks on CBC

This was passed on to the paper by a friend. I tend to trash many of these kind of emails and letters as they smack of chain letters that try to accuse you of being scared to share your true feelings on tough subjects such as religion and other similar subjects.

However, this one I need to share as it so very closely resonates with my own feelings on the subject of religion, and our national fear of being ridiculed by our friends, relatives and neighbours. I have no such fear or reservations.

Here it is in all it's glory. Feel free to share this if you like.

**Pro God Remarks on CBS on Sunday morning...**

I'm not a fan of Ben Stein's radio show, but I agree with his statement here.

"Tyranny is defined as that which is legal for the government but illegal for the citizenry"-Thomas Jefferson.

Only hope we find GOD again before it's too late!

The following was written by Ben Stein and recited by him on CBS Sunday Morning Commentary.

**My confession:**

I don't like getting pushed around for being a Jew, and I don't think Christians like getting pushed around for being Christians.

I think people who believe in God are sick and tired of getting pushed around, period.

I have no idea where the concept came from, that America is an ex-

plicitly atheist country. I can't find it in the Constitution and I don't like it being shoved down my throat.

Or maybe I can put it another way; Where did the idea come from that we should worship celebrities and we aren't allowed to worship God as we understand Him?

I guess that's a sign that I'm getting old, too. But there are a lot of us who are wondering where these celebrities came from and where the America we knew went to.

In light of the many jokes we send to one another for a laugh, this is a little different. This is not intended to be a joke, it's not funny, it's intended to get you thinking.

In light of recent events - terrorists attacks, school shootings, etc. I think it started when Madeleine Murray O'Hare (she was murdered, her body found a few years ago) complained she didn't want prayer in our schools, and we said OK.

Then someone said you better not read the Bible in school.

The Bible says thou shalt not kill; thou shalt not steal, and love your neighbor as yourself. And we said OK.

Then Dr. Benjamin Spock said we shouldn't spank our children when they misbehave, because their little personalities would be warped and we might damage their self-esteem (Dr. Spock's son committed suicide). We said an expert should know what he's talking about. And we said okay.

Now we're asking ourselves why our children have no conscience, why they don't know right from wrong, and why it doesn't bother them to kill strangers, their classmates, and themselves.

Probably, if we think about it long and hard enough, we can figure it out. I think it has a great deal to do with, **'WE REAP WHAT WE SOW.'**

Funny how simple it is for people to trash God and then wonder why the world's going to hell. Funny how we believe what the newspapers say, but question what the Bible says.

Funny how you can send 'jokes' through e-mail and they spread like wildfire, but when you start sending messages regarding the Lord, people think twice about sharing.

Funny how lewd, crude, vulgar and obscene articles pass freely through cyberspace, but public discussion of God is suppressed in the school and workplace.

**Are you laughing yet?**

Funny how when you forward this message, you will not send it to many on your address list because you're not sure what they believe, or what they will think of you for sending it.

Funny how we can be more worried about what other people think of us than what God thinks of us.

**Pass this on if you think it has merit.**

If not, then just discard it. No one will know you did. But, if you discard this thought process, don't sit back and complain about what bad shape the world is in.

**My Best Regards, Honestly and Respectfully,**

**Ben Stein**

# RCMP Releases

**Leduc RCMP Looking For Assistance in Identifying Vandalism Suspects.**

Over the past few weeks, The Leduc RCMP received many calls for service with regards to vehicles that have had their tires slashed while being parked over night. To date, the Leduc RCMP has received over 16 different complaints of vehicles with their tires being slashed. The RCMP have been investigating these incidents and are following up several leads but have made no arrests at this point.

Several videos of a possible suspect were taken by a business at a location where a vehicle had its tires slashed.

The male in the photo was wearing a medium coloured blue hooded jacket, hat and darker blue pants, possibly jeans. The man appears to be approximately 5'10" tall with a stalky to heavy build.

The Leduc RCMP is still investigating this incident and would like to ask the public to notify them if you have information about these events. The RCMP would like to remind the public not to confront the suspect but to contact your local RCMP Detachment at 780-980-7200, or if you want to remain anonymous, you can contact Crime Stoppers by phone at 1.800.222.8477 (TIPS), by internet at [www.tip-submit.com](http://www.tip-submit.com), or by SMS [[www.crimestoppers.ab.ca](http://www.crimestoppers.ab.ca)]. You do not have to reveal your identity to Crime Stoppers, and if you provide information to Crime Stoppers that leads to an arrest(s), the recovery of stolen property, and/or a seizure of illicit drugs, you may be eligible for a cash reward.

**Leduc RCMP Looking For Assistance in Identifying Vandalism Suspects.**

On the 26th of October, Leduc RCMP were dispatched to an act of Vandalism at the new Daystar Church property on Rollyview road. A representative of the Daystar Church told officers that the vandalism had taken place during the night and that a large section of their new Church facility was covered with graffiti. Since this is such a large section of the building that is facing the main road on Rollyview, police believe that there is a good possibility that there may have been witnesses. Leduc RCMP would like to ask the public to notify if you have information about this act of vandalism.

Continued on page 24

## Proposed Genesee Generating Station Units 4 & 5

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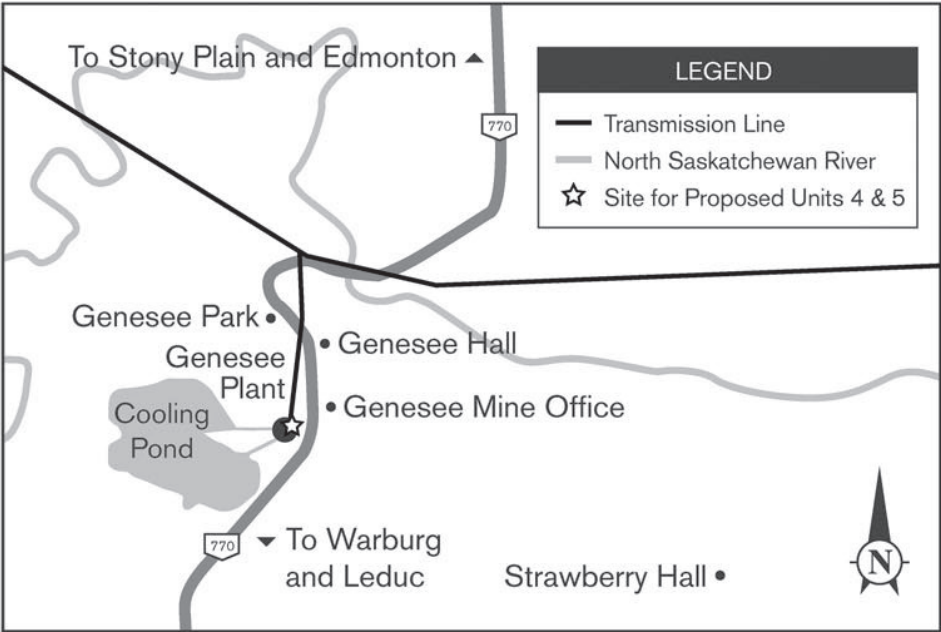
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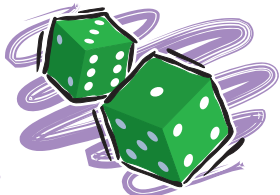
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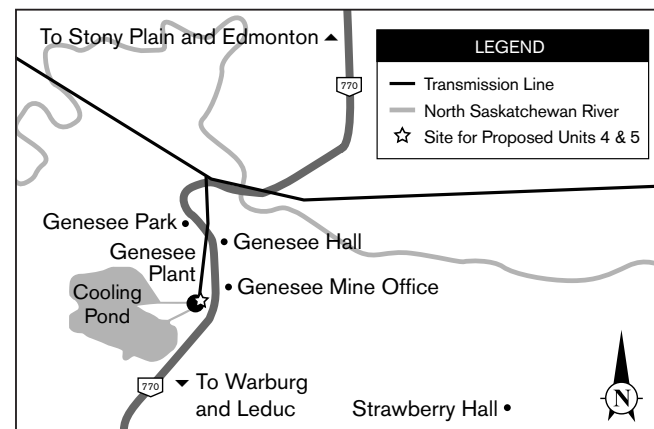
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November 16 & 17, 2013

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# Improved yield a main factor in Canada's 2013 high wheat harvest



2013 wheat harvest predicted to be more than 20 per cent of what was harvested across Canada in 2012

## Submitted

Wheat has turned out to be a true success story in Canada this year.

In a growing season that started off with flood predictions and late-seeded acres, it came as a pleasant surprise to Canadian wheat producers when Statistics Canada reported this fall that it expected this year's wheat harvest to break records at 33 metric tonnes — that's a bump of more than 20 per cent over the 2012 harvest.

Interestingly, however, planted acres were actually lower, leading analysts to attribute improved yield as a key reason for the higher-than-average harvest.

"We are starting to see a shift away from thinking of wheat as a rotational crop, and are now viewing it as a profitable option for growers," said Kristina Polziehn, Technical Development Specialist with BASF Canada.

In recent years the company has put a heightened focus on wheat and other cereal crops with the introduction of several new inputs that are specifically designed to increase investment returns for growers.

Fungicides have been a key area of interest for the company, with the introduction of Caramba in 2010 for fusarium head blight management, Twinline in 2011 for flag leaf diseases — which sold out in its first two years on the market — and most recently, Insure Cereal fungicide seed treatment earlier this year.

Polziehn says growers are becoming much savvier about the investment potential of using fungicides to help keep plants healthy and boost yield.

"Only a few years ago growers used fungicides sparingly and only if their field history called for a disease management tool," she said.

"Today's fungicide products, though, offer much more than disease control. Take AgCelence, for example. This unique benefit of pyraclostrobin-based prod-

ucts gives unparalleled plant health to fungicides, so we have started to offer AgCelence throughout our fungicide portfolio. Not only are growers now getting control of yield-robbing diseases, they are also actually increasing their yield potential by boosting plant health through AgCelence."

And that's good news for business-minded growers who are looking to capitalize on the current landscape.

In the last two years, Canada's cereal marketing shifted dramatically with the dismantling of the Canadian Wheat Board. The move has forced growers to look differently at wheat production to focus more on marketability and, in turn, profitability.

"When you look at BASF, they almost look like they're ahead of the curve because five years ago fungicides seemed almost optional," said Darwin Kells, a cereal producer from central Saskatchewan who operates a 2000-acre grain farm.

Kells also runs an independent consulting business with

Lambton Agra Strategies and often works with like-minded growers about how to achieve higher returns on investment.

"One of the things with BASF is that they are offering such a wide variety of products now, so it's not a single product shotgun approach like it was five years ago," he said.

"They're much more tailored for the individual crop, and we are coming in at specific times to take care of specific problems."

As Polziehn notes, it is that kind of mentality that has offered today's growers more options to increase their marketability.

"Research advancements have allowed us to really zero in on how different fungicides can help growers become more profitable and marketable," Polziehn said.

"It's really how we see the industry headed — toward a solution-oriented approach that will give growers the upper hand in today's marketing landscape."

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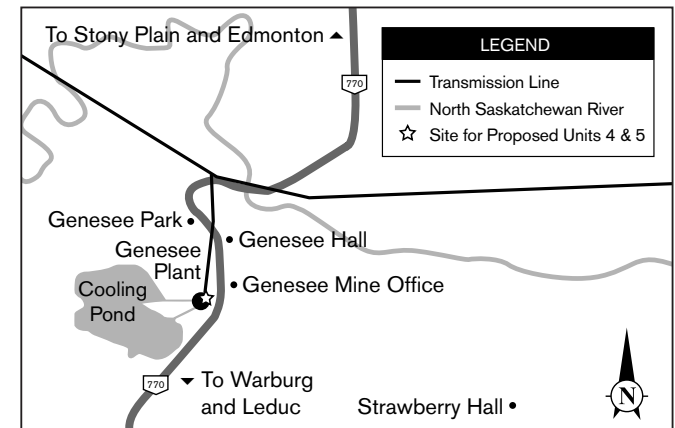
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## RCMP seize large amount of marijuana

### Submitted by the RCMP

On the evening of November 5, Thorsby/Breton detachment with the assistance of the Leduc RCMP executed a search warrant at a rural property in Sunnybrook.

A large quantity of what is believed to be cannabis marijuana was seized. The product seized has an approximate street value of more than \$4,500. Cash and other drug paraphernalia was also seized on the same property.

20-year-old Nicholas Carleton was arrested and charged with two counts of trafficking a controlled substance purpose of trafficking a controlled substance. His first court appearance is set for November 13 in Breton Provincial court.

The seizure was a result of an in depth investigation with the assistance of the Leduc RCMP drug section.

Anyone with information in relation to this crime or any other crime is encouraged to contact the Breton or Thorsby RCMP.





## Houses for Sale to Be Moved

### 1. Approximately 1216 sq ft bungalow with 384 sq ft attached garage.

Built in the 1970s.

Located on the south side of HWY 622, just east of RR23 – west of Telfordville.

Legal address: NW 34-49-2 W5

Municipal address: 2271 HWY 622

### 2. Approximately 1720 sq ft bungalow with 572 sq ft attached garage.

Built in the early 1980s.

Located on the west side of RR 31, south of TWP 502.

Legal address: South ½ SE11-50-3 W5

Municipal address: 50110 RR31

**Open House:** Saturday, December 7, 2013 at 10 am to 3 pm (both houses).

**Contact:** Jennifer Linder, **780-969-8706** (jlinder@capitalpower.com) or George Greenhough, **780-969-8618** (ggreenhough@capitalpower.com) for more information.

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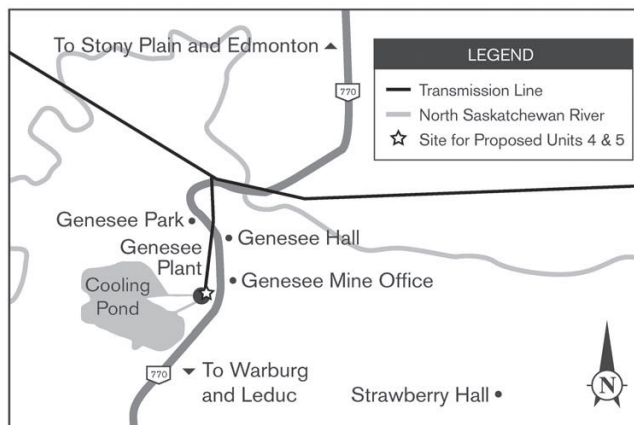
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# 4H club reports

## Leduc 4H beef club starts year with weigh-ins

**Monika Knull**  
Submitted

This year the Leduc 4-H Beef Club has begun, starting with our Weigh-In, which was held on Nov. 2.

Weigh-In had a great turn out with all of our members present with their calves. A short meeting was held afterwards discussing registrations. We have an excellent bunch of calves this year and things are looking great.

Our monthly meeting followed on Nov. 11 and we discussed executive positions, our Christmas party and public speaking which is set for Feb. 1.

For elections the following people are holding a position this year; President- Beth Hofstra Vice President- Sierra Halwa Secretary- Kassie Wru-

bleski Treasurer- Tristan Eidick, Club Reporter- Monika Knull, Historians- Laura Knull and Kelsen Eidick and our Social Committee- Kennedy Wrubleski, Jessie Schmidt, Georgia Kubicek, Cherese Eidick, Tate Wedman, Lane Wedman, Teah Wedman and Monika Knull.

This year our club has a total of 21 members and three cleavers! Our leader is Tracy Wrubleski and our assistant leader is Andrea Knull.

Following will be our next meeting Dec. 8 at Cloverlawn Hall where we will also be having our Christmas party!

We would also like to welcome our new families, the Kubicek

family, the Wedman family and the Arnold family. A huge thank you to Jerry Eidick for letting us have our meetings at his farm for the 2013/14 year and Larry Fecho for letting us use his scale for Weigh-In, it is greatly appreciated!

We hope to have an awesome year, full of good times and learning. See you in December!



Submitted  
The Leduc 4-H Beef club held its annual calf weigh-ins on Nov. 2.

## “Sky’s the limit” for Lakedell Lighthorse 4H

**Annalise Tremblay**  
Submitted

Members of Wetaskawin’s Lakedell Lighthorse 4-H Club met on October 20 at Lakedell to finish a project for an Enbridge-sponsored contest.

Enbridge has sponsored a contest for 4-H, called “Building a Winning Future”, to celebrate the 100th anniversary of 4-H in Canada. Members had to use their creativity and imagination by building something out of the cards Enbridge provided to represent where they think 4-H will go in the next hundred years.

After putting all their minds together they finally came up with an idea. They built a hot air balloon that turned while being pulled by a by-plane with a banner that says, “The sky’s the limit”.

Also during that day the club were hosted Tony Vandenbrink as a clinician. He is recognized as one of the greatest trainers in the area and he truly has a gift with horses.

In November Lakedell Lighthorse 4-H club experienced their inner cowboy/cowgirl on Nov. 9 at the Canadian Finals Rodeo.

The club started off the day by attending the 4-H day at Farmfair. They signed up for many activities and sessions including judging, candy-bouquet making, crafts, and other fun 4-H activities. Lunch was sponsored by Co-op, and after having a blast going to sessions, activities, meeting new friends, and visiting the countless booths in the trade show, CFR was nearing the corner.

Although club members were seated way up high they felt as though they were on top of the world watching the many events of rodeo. There were 35 members including some parents, and as it neared the end of bull riding they knew the extravagant day was coming to an end.

Stay tuned for Lakedell Lighthorse 4-H’s next adventure.

## Proposed Genesee Generating Station Units 4 & 5

### Project Information & Notice of Open House

#### Project Open House

Wednesday, November 27, 2013  
4:00 pm to 8:00 pm  
Genesee Community Hall, Genesee, Alberta

#### Proposal Summary

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The Project is being developed to meet anticipated increases in Alberta’s power requirements due to continued economic growth in the province, and the expected retirements of existing coal generating units in the 2020 timeframe.

#### Schedule and Regulatory Process

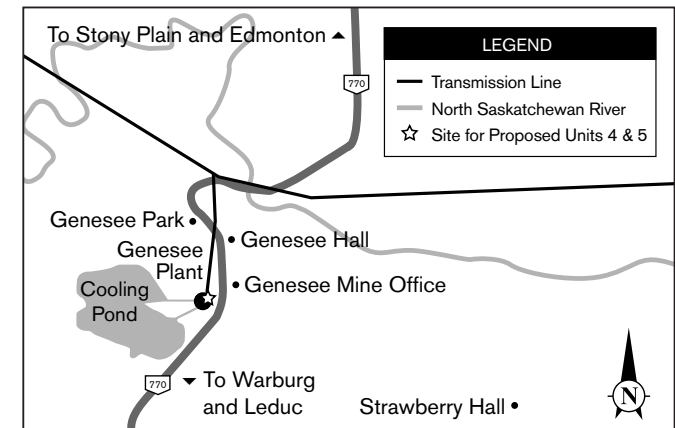
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Capital Power is seeking stakeholder input into the project and has commenced a participant involvement program on the Project consistent with the AUC’s requirements (Rule #007).

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**Phone:** 780-848-8474  
**Fax:** 780-392-5124  
**Email:** publicconsultation@capitalpower.com



#### Contact by mail:

Genesee Units 4 & 5  
c/o Public Consultation  
Capital Power Corporation  
12th Floor EPCOR Tower  
10423–101 Street NW  
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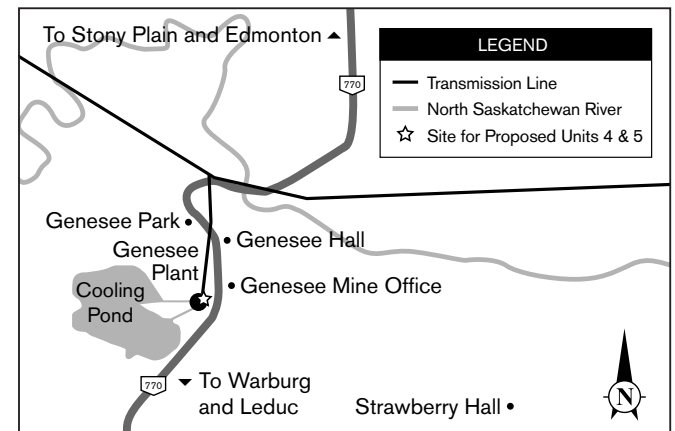
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THORSBY, AB

T0C 2P0

(780) 789-2527

**INVOICE**

DATE	INVOICE NO.
11/12/2013	12189

CAPITAL POWER CORPORATION

ATT: JENNIFER LOWRY

10th FLOOR EPCOR TOWER

1200-10423 101 ST. NW

EDMONTON, AB T5H 0E9

*Emailed Nov 19/13*

TERMS	DUE DATE
NET 21	12/3/2013

AD SIZE	DATE	AMOUNT
1/2 PG BOOSTER DISCOUNT	OCTOBER 30, 2013	32.00T
1/2 PG BOOSTER DISCOUNT	NOVEMBER 13, 2013	32.00T
1/2 PG TARGET DISCOUNT	NOVEMBER 01, 2013	32.00T
1/2 PG TARGET DISCOUNT	NOVEMBER 15, 2013	32.00T
1/2 PG BUGLE	NOVEMBER 08, 2013	30.00T
	GST ON SALES	7.90
<b>PAID</b> <i>by CR CARD.</i> <i>NOV. 12/2013.</i> <i>ALTA#007299</i>		
<b>BRETON BOOSTER, THORSBY TARGET &amp; Warburg Bugle</b>		<b>TOTAL \$165.90</b>

**PLEASE INCLUDE INVOICE NUMBER ON YOUR CHEQUE**

GST NO. 887686962

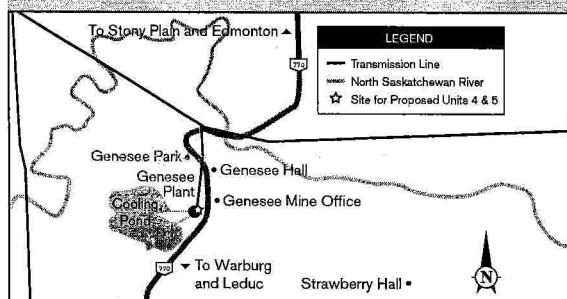


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November 7th, 2013 at Lindale Community Hall

7:00 pm start

*Consider how your life would change if  
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Did you know that a poorly maintained water well can put your water supply at risk of contamination and reduce your well yield?

If you are one of 450,000 Albertans who use their water well for household purposes, the key to ensuring your water supply is safe and secure is knowing how ground-water works, learning about your well and understanding how to properly maintain it.

Proper water well siting, construction, maintenance and plugging will help protect your well from biofouling and contamination, save you costly repairs, and ensure your well water yields are sustained over many years.

Find out what you can do to protect your well. Attend the **FREE water well management workshop** being hosted by Brazeau County and presented by the **Working Well Program**, with technical expertise provided by **Alberta Agriculture and Rural Development** and **Alberta Environment and Sustainable Resource Development**.

During the workshop we will cover:

- Groundwater – how it works
- Water quality and quantity testing
- Well protection – protecting your well from contamination
- Basic well maintenance
- Water sampling – how to do it

To attend the workshop, please pre-register by October 30th by calling Tara McGinn, Assistant Agricultural Fieldman at the Brazeau County Office at: 780-542-7777.





## Brazeau County

7401 Twp 494, P.O. Box 77,  
Drayton Valley, Alberta T7A 1R1  
Phone (780) 542-7777 - Fax: (780) 542-7770  
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Planning Certificate is an asset.
- Must be able to interpret the County's Land Use  
Bylaw, statutory plans, the Municipal Government Act  
and other provincial legislation
- Must have a willingness to pursue further educa-  
tion
- Must be able to manage multiple projects in a  
deadline oriented environment
- Ability to work as a team member
- Ability to exercise independent judgment and ac-  
tion within established guidelines
- Excellent customer service skills with a proficiency  
in interpersonal communication
- Concise and positive communicator
- Approachable attitude with the ability to mediate  
and problem solve
- Valid driver's license and acceptable driver's ab-  
stract is required
- Proficiency with MS Office applications

Deadline for applicants is **December 6, 2013**

Please ensure the specific position is  
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Visit [www.brazeau.ab.ca](http://www.brazeau.ab.ca) for a full job description.

To apply for this position please send resume and cover  
letter to the attention of:

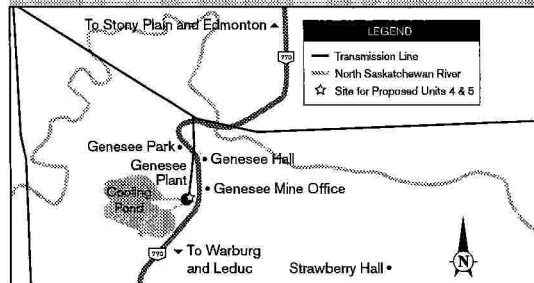
Joy Kmyta Ph. 780-542-7777  
Human Resources Coordinator Fax 780-542-7770  
Brazeau County [jkmyta@brazeau.ab.ca](mailto:jkmyta@brazeau.ab.ca)

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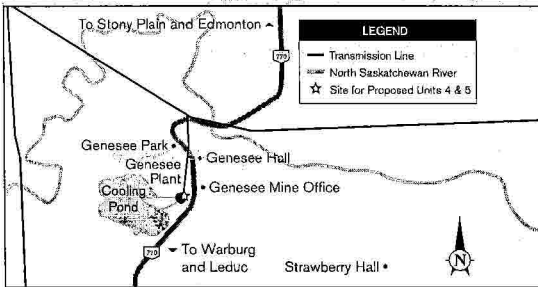


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## Proposed Genesee Generating Station Units 4 & 5

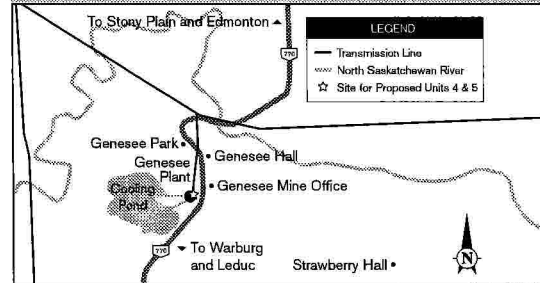
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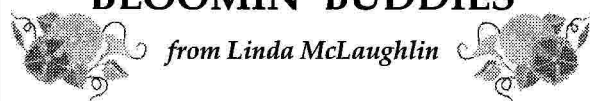
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## WARBURG BLOOMIN' BUDDIES



from Linda McLaughlin

WHOOSH! Winter came in with a vengeance! I thought it would come in gradually with a few snowflakes and then a few more a couple days later, just so we could get used to the idea. BUT NO, all in one day it made up for all the snow we probably should have had earlier! We were up to our eyeballs in the stuff!

It was beautiful as it hung off the trees and made interesting shapes and designs mounded in heaps on top of everything! Amazing! But we had a Tour to go on!

Sunday morning, Nov 3: What were the 25 women who were registered for the tour going to do? As it turned out, they dug their way out and showed up, of course! Hot beverages, muffins and oranges were awaiting them at the Warburg Cultural Centre! Never underestimate the determination of a bunch of woman on a mission!

The ladies started coming in at 9:00 am. We left exactly on schedule at 9:30. Stopped at the KollBrook Esso in Thorsby and picked up 14 ladies there!

We knew we were in good hands with Joanne Liba as our bus driver! (She races cars for a hobby too.) She said, "This is winter and this is Alberta! So basically, "Suck it up"! This last part is my quote, not Joanne's. By the way, she would never have taken us if she didn't think it was safe! Thanks for volunteering to drive Joanne. We all felt 100% safe in your capable hands!

A big thanks to Melvin Meyer for donating the use of his bus!

We had ladies from Warburg, Breton, Thorsby, Beaumont, Mulhurst, Red Deer and even a young couple visiting from Toronto!

All had a great time as we visited Greenland and Salisbury Greenhouses. There were dozens of beautifully decorated trees (all different and so unique). So much giftware and decorations to see and buy! Because of the weather, the places were not crowded. At each place our group was given a 10% discount.

At the end of the day, the consensus was that we had a lot of fun, much laughter and chatting. It even seemed that the dumping of snow was not so bad after all...it truly made it a "Winter Wonderland Day"!

Thank you to all who came on this journey of friendship, fun and wonder!

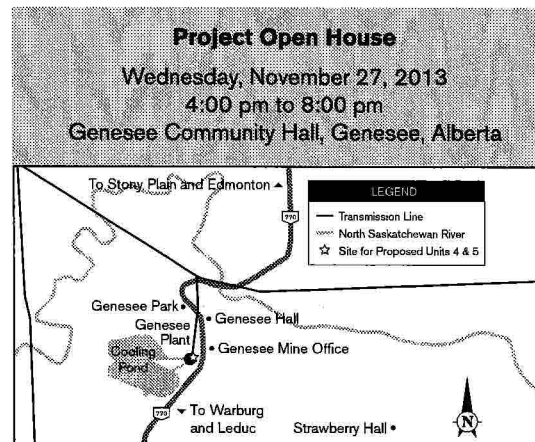
A big thanks to Helen and Ron Spasoff who were up bright and early to shovel the sidewalks at the Cultural Centre and clean-up after we left!

Our next meeting will be Feb 03, 2014 at the Warburg Cultural Centre at 7:00 pm. everyone welcome.

*Warburg Bloomin' Buddies "Putting the Bloom in Community"*

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**MEZZOFORTE' ENTERPRISES**

BOX 5, SITE 12, RR 1

THORSBY, AB

T0C 2P0

(780) 789-2527

**INVOICE**

DATE	INVOICE NO.
11/15/2013	12204

CAPITAL POWER CORPORATION

ATT: JENNIFER LOWRY

10th FLOOR EPCOR TOWER

1200-10423 101 ST. NW

EDMONTON, AB T5H 0E9

*emailed Nov. 19/13*

TERMS	DUE DATE
NET 21	12/6/2013

AD SIZE	DATE	AMOUNT
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	GST ON SALES	3.10
<b>PAID</b> <i>by CR CARD</i> <i>Nov. 19/2013</i> <i>Auth# 006048.</i>		
<b>BRETON BOOSTER &amp; WARBURG BUGLE</b>		<b>TOTAL \$65.10</b>

**PLEASE INCLUDE INVOICE NUMBER ON YOUR CHEQUE**

GST NO. 887686962

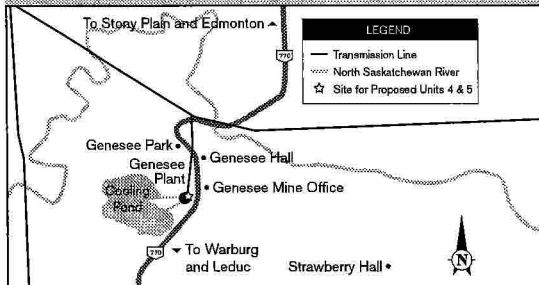


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Genesee Community Hall, Genesee, Alberta



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Capital Power Corporation is proposing to build the Genesee Generating Station Units 4 and 5 (the Project), a combined cycle natural gas-fired generation facility. Capital Power, together with potential partner(s), plans to construct and operate the Project on a site adjacent to the existing Genesee Generating Station. The Project's generation capacity will be up to 1,050 megawatts (MW), and construction will be in two phases with each phase being approximately equal. The in-service date for both units is currently expected to be in the 2017-2020 range. The expected life of a natural gas-fired facility is generally 35 years.

The Project is being developed to meet anticipated increases in Alberta's power requirements due to continued economic growth in the province, and the expected retirements of existing coal generating units in the 2020 timeframe.

### Schedule and Regulatory Process

Capital Power anticipates submitting regulatory applications for the Project by late 2013 or early 2014. Separate applications will be made to the Alberta Utilities Commission (AUC) and Alberta Environment and Sustainable Resource Development.

Pending a successful outcome of the regulatory review, we anticipate construction to begin in late 2014 or early 2015. Construction of the first phase of the Project is expected to take three years, with the second phase taking an additional year to complete.

Capital Power is seeking stakeholder input into the Project and has commenced a participant involvement program on the Project consistent with the AUC's requirements (Rule #007).

#### For further information:

Phone: 780-848-8474  
Fax: 780-392-5124  
Email: publicconsultation@capitalpower.com



#### Contact by mail:

Genesee Units 4 & 5  
c/o Public Consultation  
Capital Power Corporation  
12th Floor EPCOR Tower  
10423 101 Street NW  
Edmonton, AB T5H 0E9  
www.capitalpower.com

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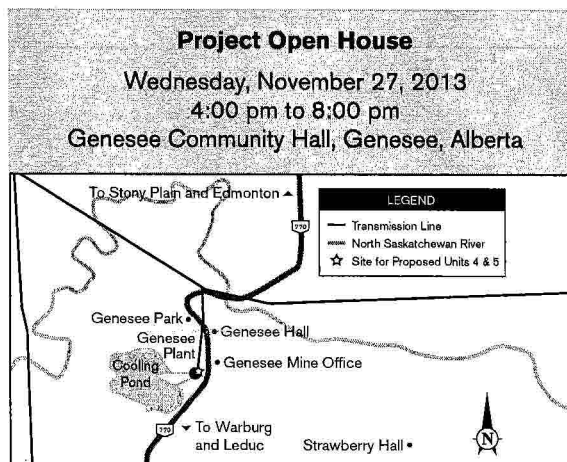
### Hours of Operation

Monday - Saturday - 9am-7pm  
Sundays & Holidays - 11am-5pm



## Proposed Genesee Generating Station Units 4 & 5

Project Information & Notice of Open House



### Proposal Summary

Capital Power Corporation is proposing to build the Genesee Generating Station Units 4 and 5 (the Project), a combined cycle natural gas-fired generation facility. Capital Power, together with potential partner(s), plans to construct and operate the Project on a site adjacent to the existing Genesee Generating Station. The Project's generation capacity will be up to 1,050 megawatts (MW), and construction will be in two phases with each phase being approximately equal. The in-service date for both units is currently expected to be in the 2017-2020 range. The expected life of a natural gas-fired facility is generally 35 years.

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Fax: 780-392-5124  
Email: publicconsultation  
@capitalpower.com



#### Contact by mail:

Genesee Units 4 & 5  
c/o Public Consultation  
Capital Power Corporation  
12th Floor EPCOR Tower  
10423 101 Street NW  
Edmonton, AB T5H 0E9  
[www.capitalpower.com](http://www.capitalpower.com)

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and individuals that  
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*Your support was greatly  
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## 8.6 Open House Boards



# Welcome to the Open House for the Proposed Genesee Generating Station Units 4 & 5





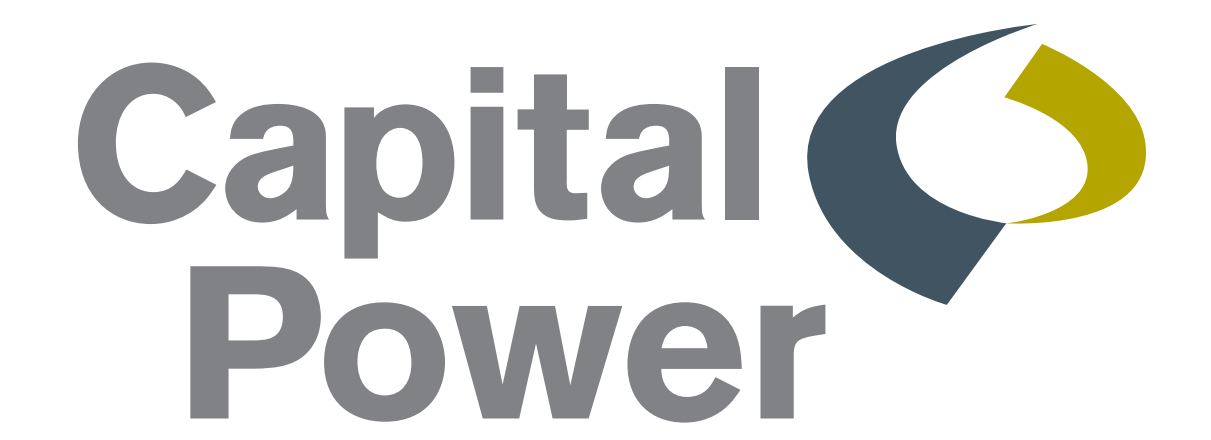
# Project Overview

Capital Power is proposing to build the Genesee Generating Station Units 4 and 5 (the Project), a combined cycle natural gas-fired generation facility. Key Project features:

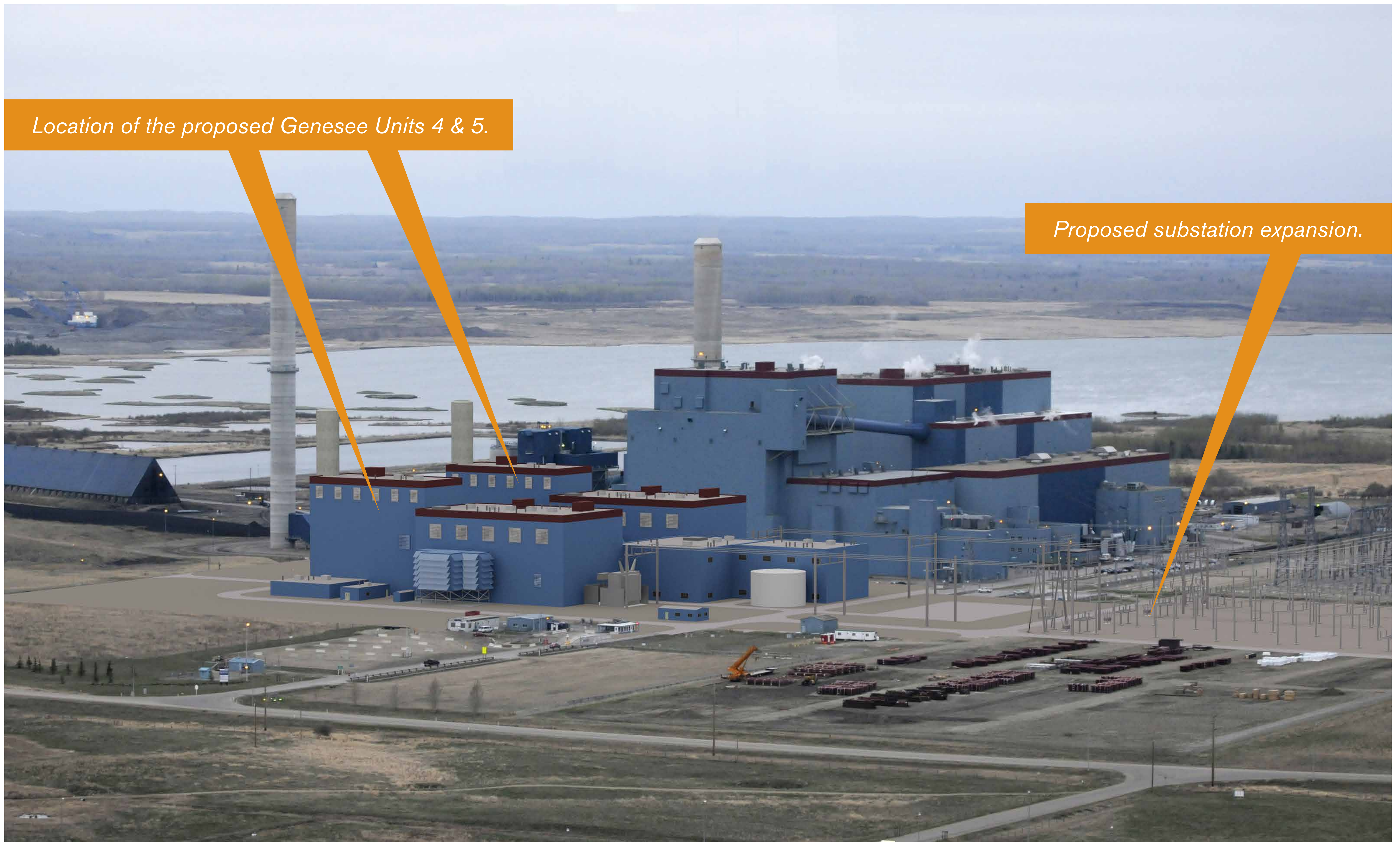
- Two identical combined cycle generating units which could together achieve a combined gross capacity of up to 1,050 MW.
- The Project will be adjacent to the existing Genesee Generating Station (GGS), and will be constructed on a 'brownfield' site (i.e. previously disturbed) and will utilize existing infrastructure (i.e. substation, transmission and water intake/discharge structures).
- Each generating unit consists of a natural gas-fired turbine, a heat recovery steam generator, a steam turbine and an electrical generator.
- Construction of Unit 4 and Unit 5 will occur in two phases. The in-service date for both units is anticipated in the 2017–2020 range.
- Capital Power anticipates submitting regulatory applications for the Project by late 2013 or early 2014.
- Separate applications will be made to the Alberta Utilities Commission (AUC) and Alberta Environment and Sustainable Resource Development (ESRD).



Genesee Generating Station Units 4 & 5



# Proposed Plant Rendering



*Location of the proposed Genesee Units 4 & 5.*

*Proposed substation expansion.*



# Genesee Local Area & Location of GGS Units 4 & 5





# Seeking Your Input – Participant Involvement Process

Capital Power is committed to sharing information on the Project and receiving input from neighbours and stakeholders. A goal with this open house is to provide an opportunity for stakeholders to meet Project team members and ask questions of technical specialists.

The consultation process is designed to meet the requirements of AUC Rule 007, and includes a number of opportunities for information sharing and dialogue:

- Project information mailed to local landowners and other stakeholders.
- Project information on Capital Power's website ([www.capitalpower.com](http://www.capitalpower.com)).
- Open houses to discuss the Project directly with project team members.
- An opportunity for all interested stakeholders to provide comments to Capital Power by phone, e-mail and mail, or in person.
- An additional Project open house is planned for the first half of 2014.
- An Aboriginal Engagement Program.

Capital Power will document stakeholder comments to ensure all questions and concerns are addressed.



Genesee Generating Station Units 4 & 5

# We Want To Hear From You

Capital Power values your input into the proposed Project. We have launched a participant involvement program to share information with stakeholders and obtain input on our proposal.

Contact by phone or e-mail:

Toll Free: (Alberta) 1-866-348-3946

Local: 780-848-8474

Fax: 780-392-5124

[publicconsultation@capitalpower.com](mailto:publicconsultation@capitalpower.com)

Contact by mail:

Genesee Units 4 & 5

Capital Power Corporation

12th Floor EPCOR Tower

10423 101 Street NW

Edmonton, AB T5H 0E9

Website:

[www.capitalpower.com](http://www.capitalpower.com)



# Capital Power in the Community

Capital Power is committed to being a good neighbour in Leduc County, with a special focus in the Genesee area. Some examples of Capital Power's activities in the local community include:

- Support for local groups and activities:
  - Warburg Canada Day
  - First Aid Training
  - Genesee Agriculture Society
  - Annual support for local community halls and cemeteries
- Opportunities for direct engagement and dialogue:
  - Plant Tour (Fall 2012, Fall 2013)
  - Reclamation and Mine Tour (on-going)
  - Community Advisory Task Group (CATG)
  - Regular engagement with the Leduc County and the Village of Warburg
  - Genesee Connection newsletter
  - Project specific consultation and dialogue





# A Sound Environmental Option for New Power Generation in Alberta

- Advanced combined cycle natural gas-fired turbine technology provides greater efficiency and will help Alberta continue to reduce greenhouse gas emissions. The facility will meet Alberta's air emission standards and performance expectations.
- The facility will use advanced emission-control technology, significantly reducing emissions such as nitrogen oxides (NO<sub>x</sub>).
- The facility will be constructed on a 'brownfield' (i.e. previously disturbed) site and will utilize existing infrastructure (i.e. substation, transmission and water intake/discharge structures).
- No additional diversion of water from the North Saskatchewan River is required for the Project beyond the volumes already permitted under the current licences issued by ESRD for the existing Genesee Generating Station.





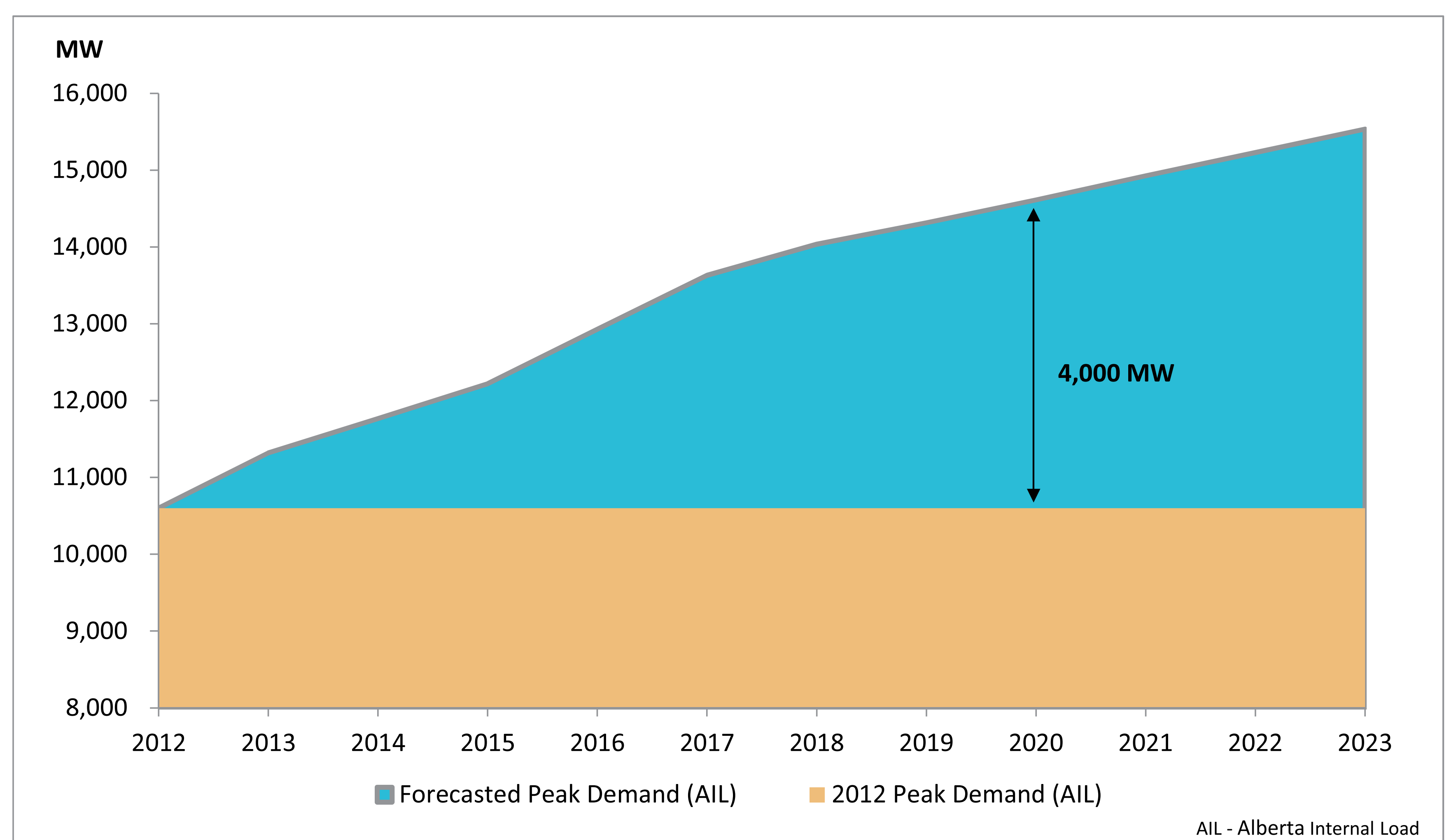
# Helping Meet Alberta's Power Generation Needs

The Project is being developed to meet anticipated increases in Alberta's power requirements arising both from continued economic growth in the province and from the expected retirement of existing coal generating units in the 2020 timeframe.

According to the Alberta Electric System Operator, peak demand will grow from 10,600 MW to 14,600 MW by 2020 or by an average of 500 MW per year.

Situated in central Alberta, the Project is close to existing transmission infrastructure, as well as important electrical load centres such as Edmonton and outlying industrial areas.

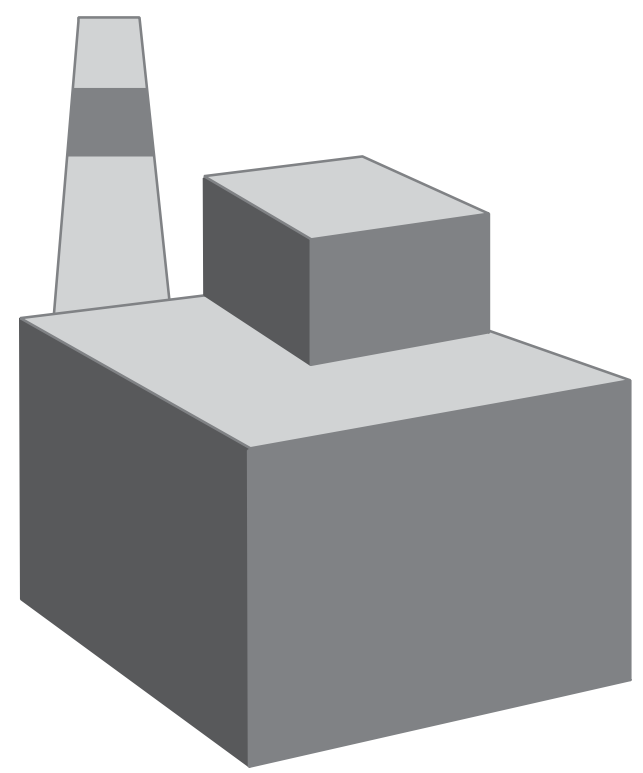
Using an abundant fuel such as natural gas, this facility will provide a reliable, clean and efficient alternative for new generation in Alberta.



Source: AESO 2012 Long-term Outlook



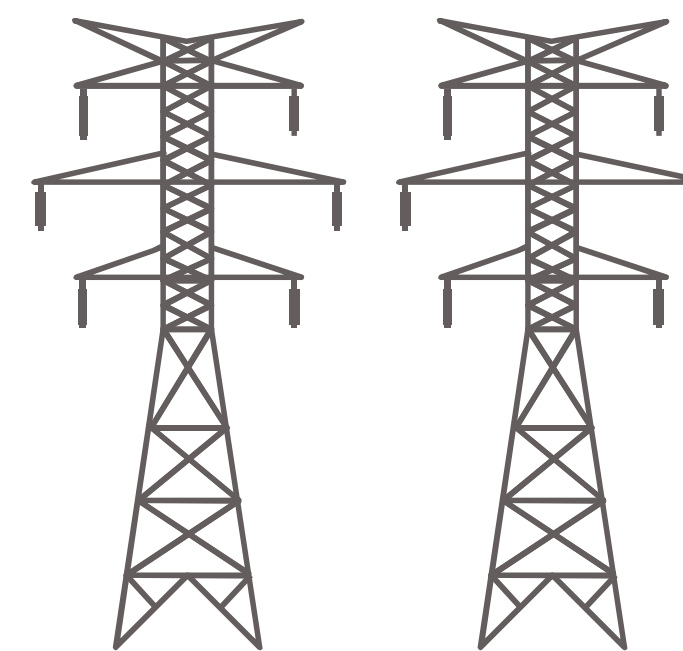
# Alberta Power Market Overview



## Generation

ATCO Power  
Capital Power Corporation  
Cogeneration Plants  
ENMAX Energy  
TransAlta  
Wind Turbines

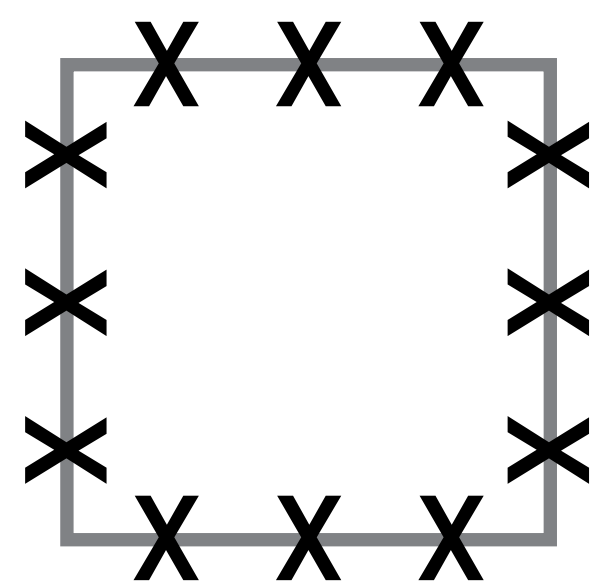
*Generating facilities convert various forms of energy into electric power*



## Transmission

ATCO Electric  
AltaLink  
ENMAX Power (Calgary)  
EPCOR (Edmonton)

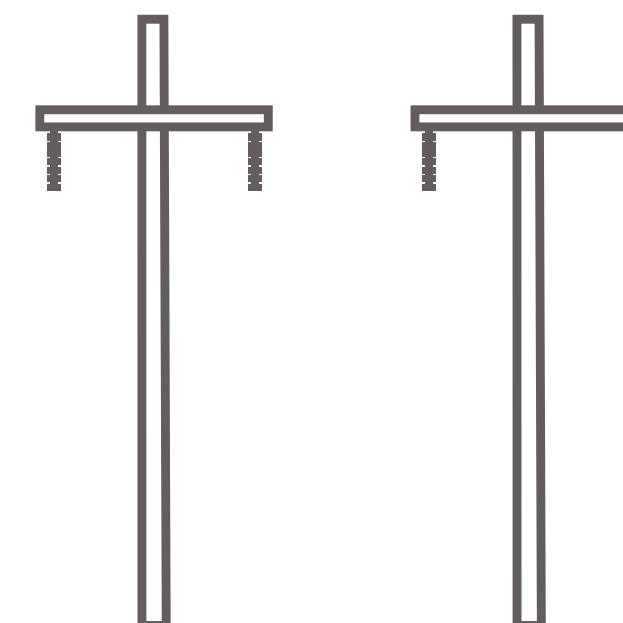
*Transmission lines connect the power produced at generating facilities to substations*



## Substations

ATCO Electric  
AltaLink  
ENMAX Power (Calgary)  
EPCOR (Edmonton)

*Substations are connection points between transmission and distribution systems*



## Distribution

ATCO Electric  
FortisAlberta  
ENMAX Power (Calgary)  
EPCOR (Edmonton)  
Rural Electrification Associations

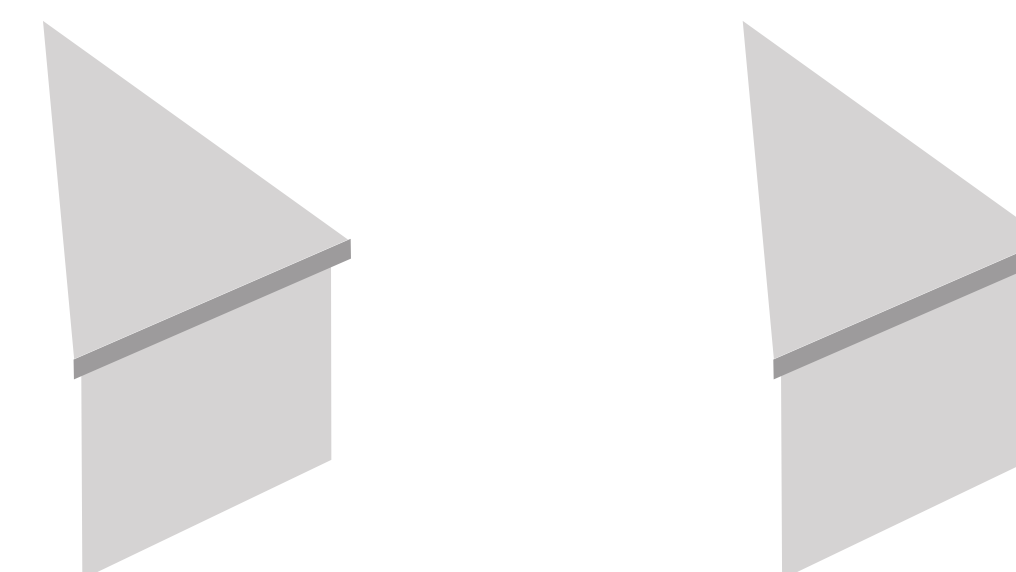
*Distribution lines carry electricity to homes, farms and businesses*



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*Retailers give consumers a choice of electricity service providers*



**You**

*Electricity is delivered to homes, farms and businesses*



# Capital Power – Alberta Experience and Commitment

Capital Power is one of Alberta's largest and most experienced power generation companies, in terms of both building and operating energy facilities. Capital Power is listed on the Toronto Stock Exchange under 'CPX.'

We currently own over 1,900 MW of power generation (coal, natural gas and wind) in Alberta.

In late 2012, we announced the acquisition of a 50% interest in the Shepard Energy Centre (800 MW gas-fired facility) under construction by Enmax in Calgary.

Capital Power's recent construction expertise includes the completion of the Keephills 3 Generating Station on Lake Wabamun and wind power facilities in Alberta, British Columbia and Ontario.

In December 2012, we commenced operations of Alberta's largest wind farm, the 150 MW Halkirk Wind Operation.





# Genesee – A History of Power Generation

The existing Genesee Generating Station has over 30 years of history, with construction at the site beginning in 1983.

Unit #2 was commissioned in 1989, before Unit #1, which was commissioned in 1994.

Unit #3 was commissioned in 2005 and is jointly owned by Capital Power and TransAlta.

The combined maximum capacity of the three generating units at Genesee is 1,266 megawatts.





# Building on the Existing GGS Lands

The Project would be located entirely within the boundaries of the existing Genesee Generating Station (GGS) and would be sited adjacent to Genesee Unit 3. The GGS is located 50 kilometres west of Edmonton (Section 25, Township 50, Range 3 west of the 5th Meridian).

Construction would occur on about five hectares (14 acres). All of the land is owned by Capital Power. Previously used as a construction laydown area for Genesee Unit 3, the facility location is considered a 'brownfield' site.





# Advanced Combined Cycle Gas Turbine Technology

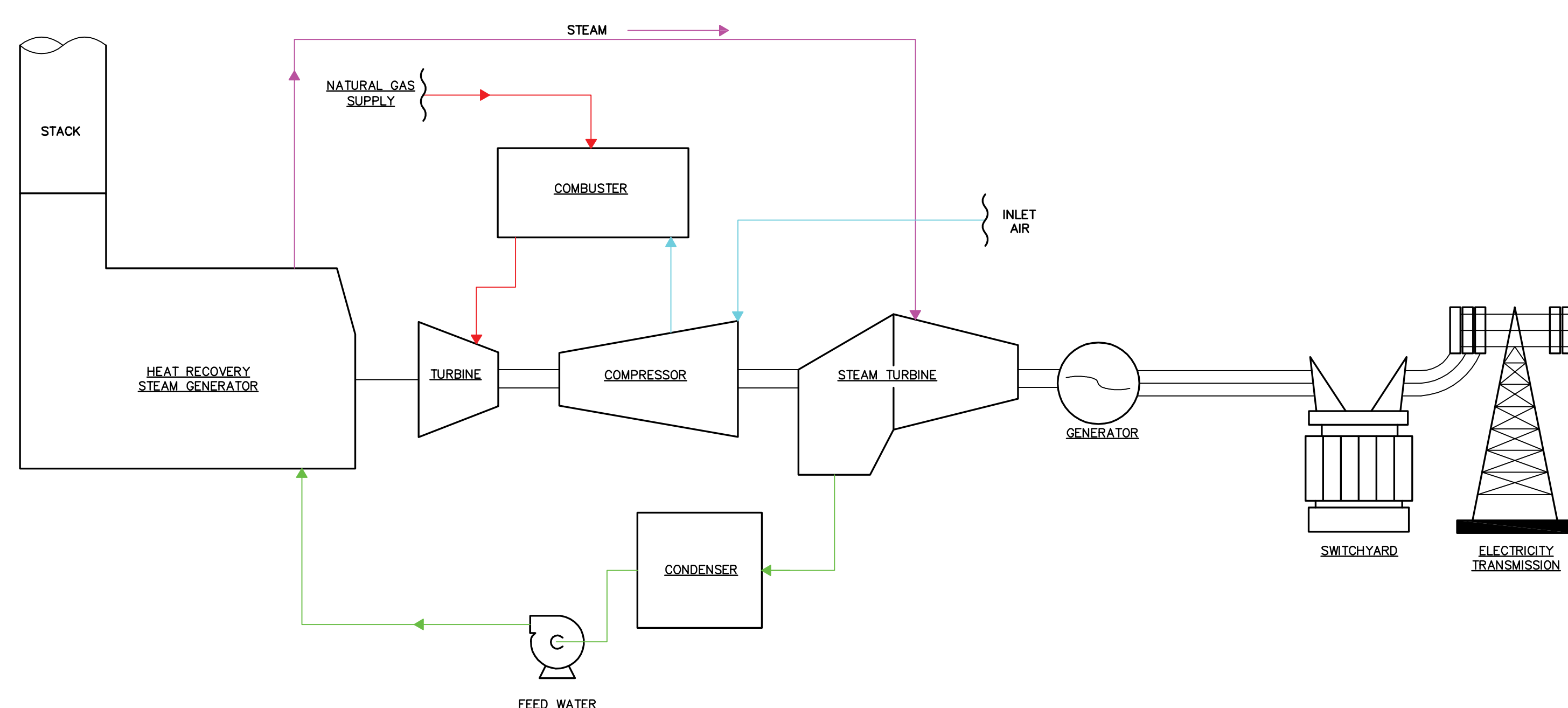
Capital Power is proposing to utilize advanced combined cycle natural gas-fired turbine technology (CCGT) for the Project.

The CCGT process begins with a natural gas turbine generator which produces power and exhaust heat when in operation.

The exhaust heat creates steam in a heat recovery steam generator which drives a steam turbine generator. As a 'combined' process, the gas turbine and steam turbine together generate power with greater efficiency and lower emissions.

The Project is proposed as two identical combined cycle systems which could achieve a combined gross capacity of up to 1,050 MW. Each generating unit consists of a natural gas-fired turbine generator and a heat recovery steam generator, and a steam turbine generator.

NATURAL GAS COMBINED CYCLE POWER PLANT





# Construction Schedule

Pending a successful outcome of the regulatory review, we anticipate construction to begin in late 2014 or early 2015.

Prior to construction, we will apply to Leduc County for building and other development permits.

Construction of the first phase of the Project is expected to take three years, with the second phase taking an additional year to complete.

Since the Project will be located on a 'brownfield site', minimal site preparation activities are required.

The on-site construction employment will occur over a three to four year period, creating approximately 1,200 person-years of employment.

At peak construction, there will be about 850 people working on the Project. During operations, 25 to 30 full-time positions will be required.



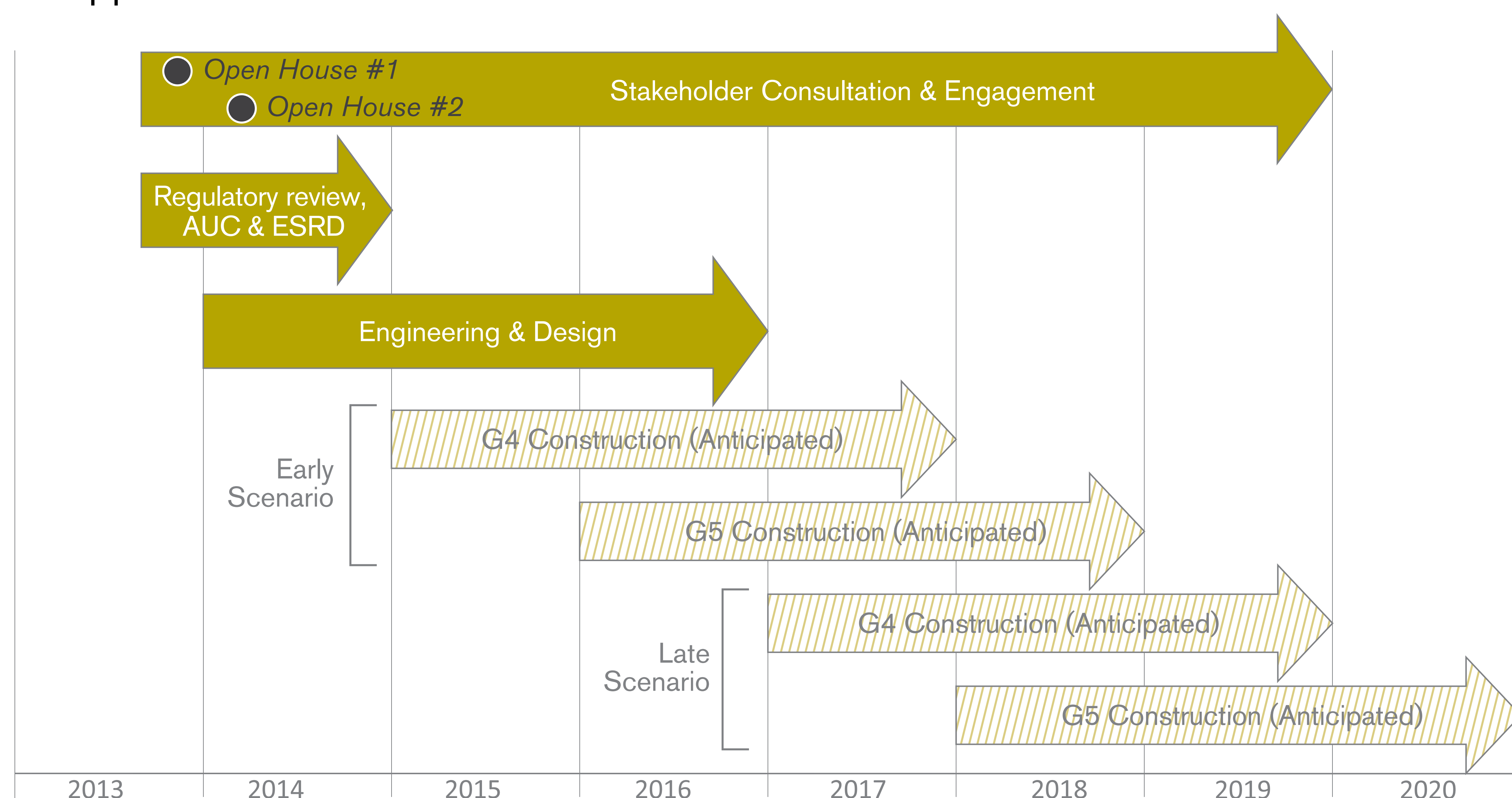


# Proposed Schedule

Capital Power anticipates submitting regulatory applications for the Project by late 2013 or early 2014. The construction schedule will be determined based on the outcome of the regulatory process and an assessment of market conditions.

Separate applications will be made to the Alberta Utilities Commission (AUC) and Alberta Environment and Sustainable Resource Development (ESRD). Capital Power has also engaged the Canadian Environmental Assessment Agency (CEAA) which will determine if a Federal environmental assessment is required.

ESRD has already determined that an Environmental Impact Assessment (EIA) report is not required for the Project and that environmental matters can be dealt with effectively in the EPEA approval application.





# Environmental Studies

Capital Power is working with Stantec and Golder Associates to conduct studies to assess potential effects of the proposed Project on air, noise and water. Studies have included:

- Air emission modeling (Stantec)
- Noise impact assessment (Stantec)
- Thermal modeling of Cooling Pond (Golder)



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*With Golder, clients gain the advantage of working with highly skilled engineers, scientists, project managers, and other technical specialists who are committed to helping them succeed by embedding sustainable development principles and practices in their projects. By building strong relationships and meeting the needs of clients, our people have created one of the most trusted professional services organisations in the world.*

*We serve our clients as a globally connected community that shares knowledge to find the answers to technical issues requiring innovative approaches.*



# Other Environmental Elements

## Vegetation

As a 'brownfield site', bare groundcover dominates the Project site with some sparse agronomic species cover found on the eastern half of the site.

## Wildlife

Given the high level of existing industrial activity and previous disturbance of the proposed Project area, the land in the immediate vicinity of the Project is considered to have low habitat value for wildlife.

## Fish, Fish Habitat and Aquatic Species

Given the comparatively small net reduction in volume of discharge anticipated to be released back to the North Saskatchewan River (NSR), changes to fish and fish habitat are not expected.

Predicted instream concentrations in the NSR downstream of the cooling pond blowdown outfall meet or exceed ESRD's Water Quality Objectives for the NSR.

Results from thermal and water quality modeling show no potential effects to fish in the cooling pond or within the NSR.

Construction and operation of the Project are also not expected to lead to any changes to aquatic species, including fish, since no physical changes are expected to the existing NSR intake/outfall.



# Air Emissions

The Project will use the most advanced gas and steam turbine technology commercially available and meets, or exceeds, the Clean Air Strategic Alliance's (CASA) standards and Alberta's Ambient Air Quality Objectives and Guidelines, as well as performance expectations for air emissions for the Alberta electricity sector.

Selective catalytic reduction (SCR) will be installed for controlling NO<sub>x</sub> emissions from the generating units.

Additionally, dry low NO<sub>x</sub> burners on the gas turbines and adequate stack heights will be implemented to reduce air emissions.



# Water Use

The Project will use water from the existing cooling pond, which draws water from the North Saskatchewan River (NSR). No additional diversion of water from the NSR is required for the Project beyond the volumes already permitted under the current licences issued by Alberta Environment and Sustainable Development (ESRD) for the existing GGS.

- Cooling water for the steam turbines will be sourced from the existing cooling pond by extension of the inlet canal.
- All other water requirements for equipment cooling and cycle make-up will also be met by the cooling pond.
- The proposed Project makes effective use of the existing GGS infrastructure, specifically utilization of the existing river water intake, pumphouse, cooling pond, and point-of-discharge to the NSR. These synergies will reduce any potential environmental effects.
- Marginal changes in the cooling pond water temperature (slightly higher) are anticipated, which will result in a reduction of discharge back to the NSR due to increased evaporative losses from the cooling pond.

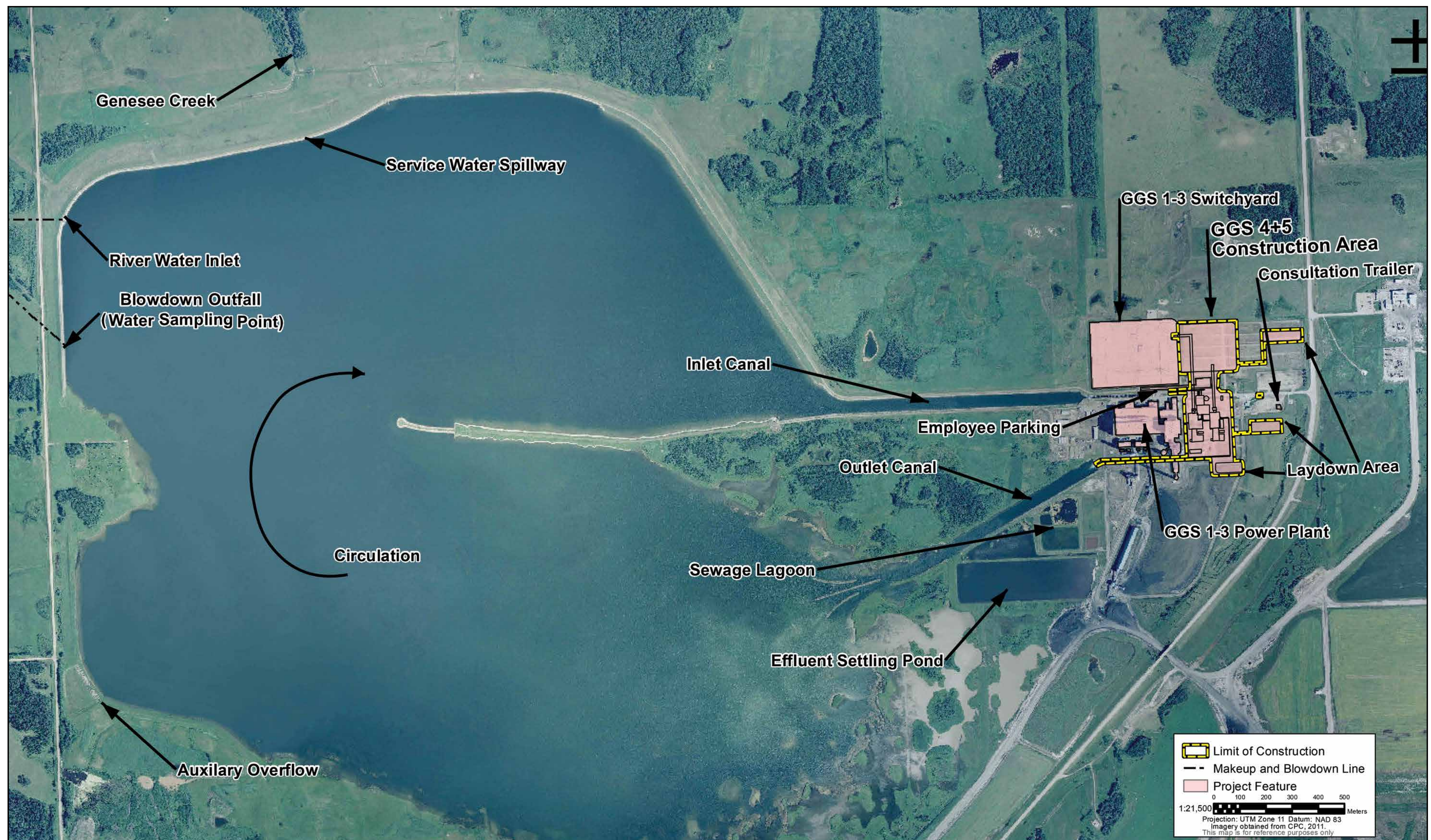


*Photos of the intake and outfall structures for GGS. No changes are proposed to this infrastructure for the Project.*





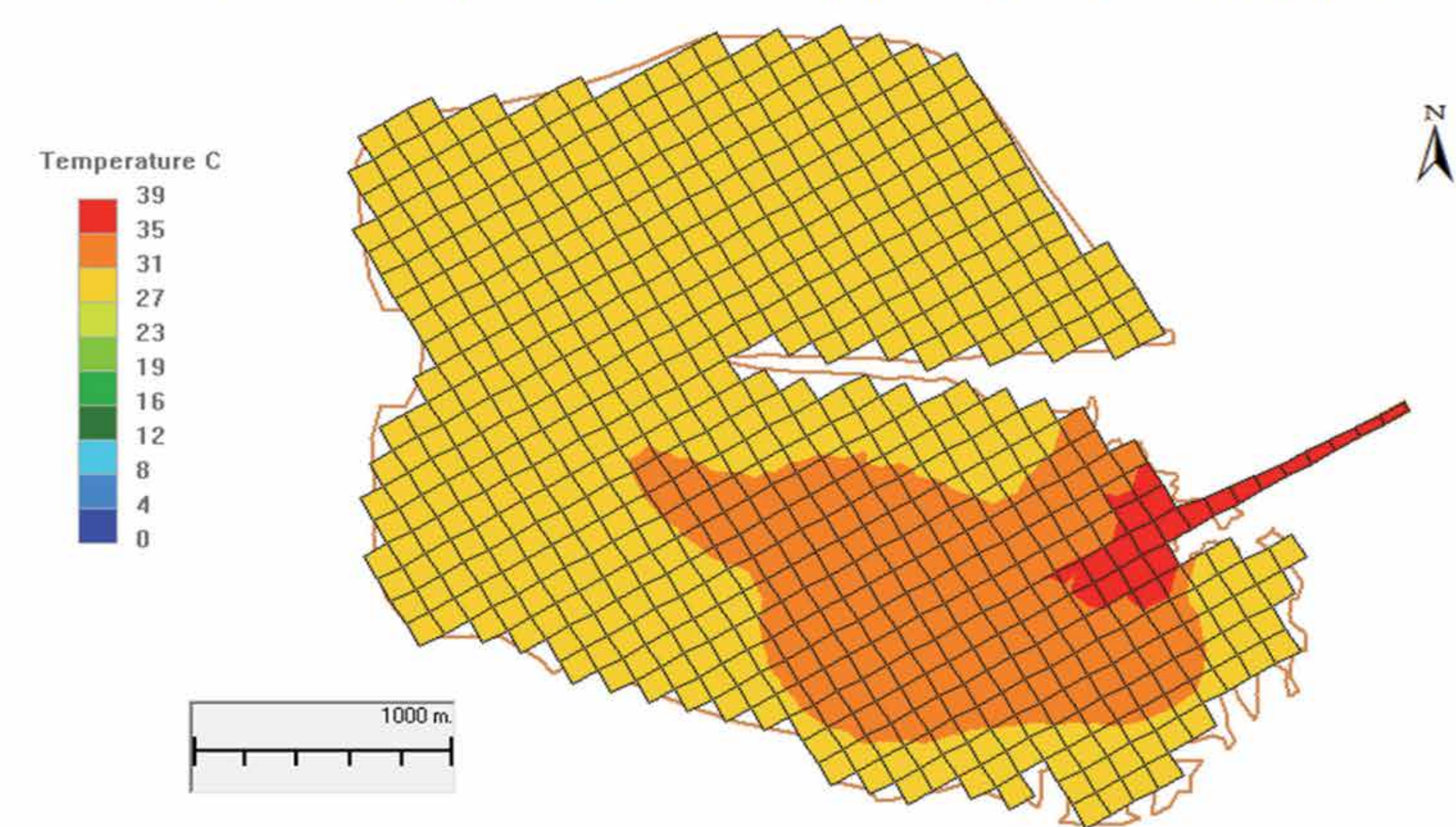
# GGGS Units 4 & 5 and Cooling Pond



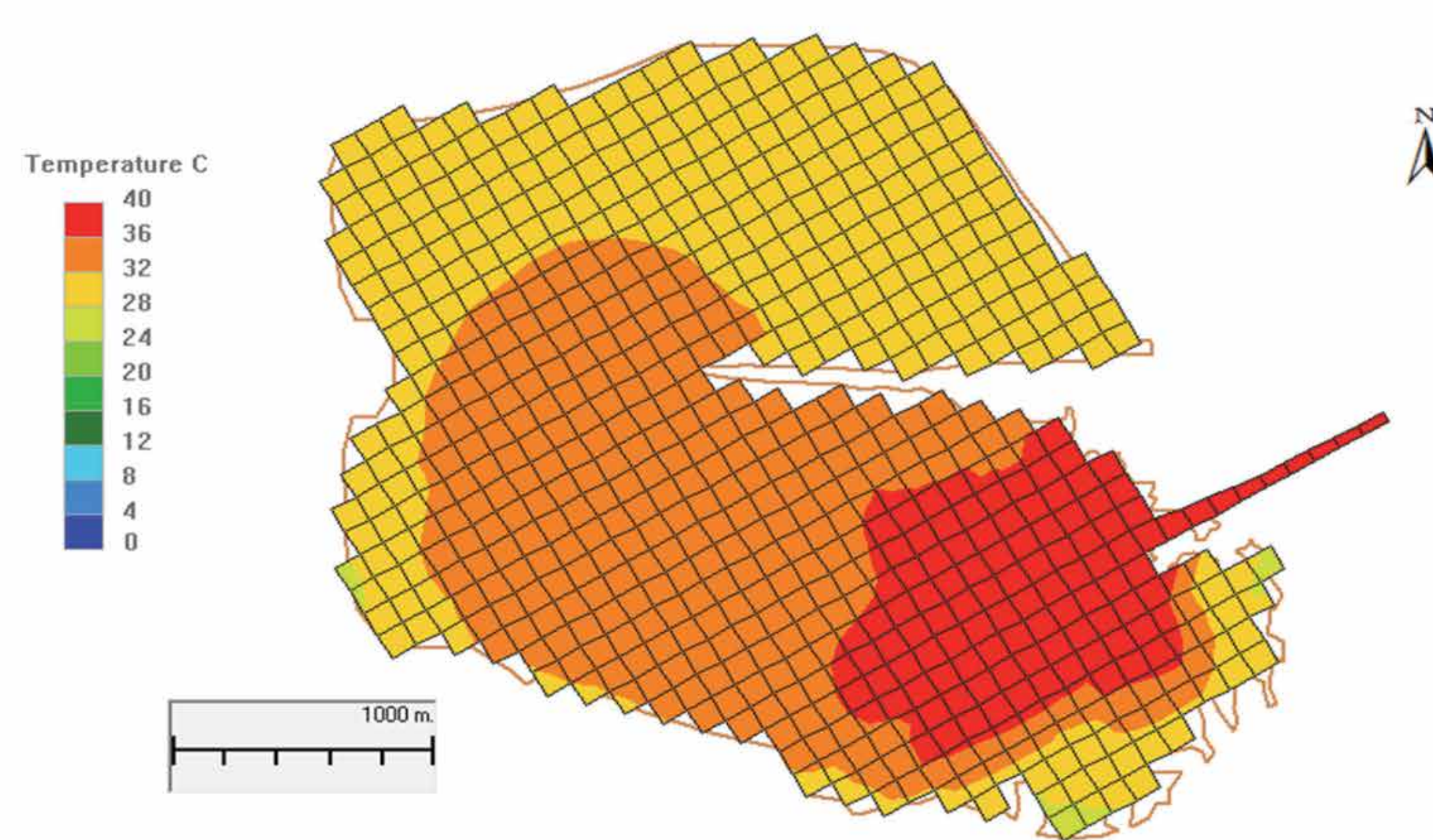


# Water Quality

Simulated Distribution of Genesee Cooling Pond Water Temperature for the Existing Case (July 11, 2012) Condition



Simulated Distribution of Genesee Cooling Pond Water Temperature for the Base Case (July 11, 2012) Condition



Predicted Annual Evaporation Rates

	Annual Evaporation (Mm <sup>3</sup> )		
	Existing Case	Base Case	Difference
2009	15.5	18.4	2.9
2010	15.1	17.7	2.6
2011	15.3	19.9	4.6
2012	14.2	17.2	3.0

Predicted hourly temperature at two locations in the cooling pond under existing and base case conditions:

	Existing Case (°C)	Base Case (°C)	Difference (°C)
<b>Temperature at the Condenser Inlet</b>			
Maximum	29.96	31	1.04
Average	14.3	15	0.7
99 <sup>th</sup> Percentile	27.6	28.8	1.2
<b>Temperature at Blowdown</b>			
Maximum	32	34	2
Average	14.3	15.1	0.8
99 <sup>th</sup> Percentile	28.4	30	1.6

Dates when Existing Case Inlet T> 29.8: July 11 and 12, 2012 (for couple of hours between 5 to 8 pm)

Dates when Base Case Inlet T> 29.8: July 8 to July 13, 2012 ( for few hours between 2 to 11 pm); Aug 7, 2012 (at 5pm and 9 pm)

Predicted average daily temperature at two locations in the cooling pond under existing and base case conditions:

	Existing Case (°C)	Base Case (°C)	Difference (°C)
<b>Temperature at the Condenser Inlet</b>			
Maximum	28.8	29.9	1.1
Average	14.3	15	0.7
99 <sup>th</sup> Percentile	27.2	28.3	1.1
<b>Temperature at Blowdown</b>			
Maximum	29.7	31.2	1.5
Average	14.3	15.1	0.8
99 <sup>th</sup> Percentile	28	29.5	1.5



# Water Quality

Predicted In-stream Concentrations in the North Saskatchewan River Downstream of the Blowdown Outfall Compared to NSR Water Quality Objectives

Parameter	Units	NSR Water Quality Objectives <sup>(e)</sup>			NSR Upstream of GGS	GGS Blowdown WQ			Predicted Instream Concentrations <sup>(e)</sup>		
		Condition <sup>(f)</sup>	50 <sup>th</sup> Percentile <sup>(c)</sup>	95 <sup>th</sup> Percentile <sup>(d)</sup>		Existing Case	Base Case (TDS limit of 370 ppm)	Base Case (TDS limit of 250 ppm)	Existing Case	Base Case (TDS limit of 370 ppm)	Base Case (TDS limit of 250 ppm)
Total Dissolved Solids	mg/L	IC	196	235	230	292	373	280	231	232	231
		OW	186	248							
Calcium	mg/L	IC	46	53	44.3	45	60	53	44	44	44
		OW	42	46							
Chloride	mg/L	IC	0.7	2.6	2	3.4	3.8	2.4	2.0	2.0	2.0
		OW	0.8	2.4							
Magnesium	mg/L	IC	-	-	14.4	26	30	21	15	15	15
		OW	-	-							
Barium	mg/L	IC	-	-	0.0735	0.12	0.14	0.12	0.074	0.074	0.074
		OW	-	-							
Sodium	mg/L	IC	-	-	5	37	42	22	5.4	5.4	5.3
		OW	-	-							
Sulphate	mg/L	IC	45	52	42.2	137	155	93	43	44	43
		OW	38	48							
Fluoride	mg/L	IC	0.12	0.21	<b>0.122</b>	0.31	<b>0.35</b>	<b>0.23</b>	0.12	0.12	0.12
		OW	0.12	0.19							

(a) Based on NSWA (2010) Reach C downstream of the Brazeau River confluence to Devon.

(b) IC = ice covered; OW = open water.

(c) Using the 50th percentile statistic as an objective means at least half of future measurements should be below this value; and there should be no statistically significant, increasing trend detected in the analysis of future, long-term monitoring data.

(d) Using the 95th percentile statistic as an objective means at least 95% of future measurements should be below this value; and there should be no statistically significant increasing trend detected in the analysis of future, long-term monitoring data.

(e) calculated based on the minimum 7-day, 1 in 10 year flow (7Q10) for the NSR

" - " symbol indicates no applicable guideline, no applicable objective or no available data.

Bold numbers indicate concentration exceeds Chronic Guideline

References:

AEP (Alberta Environmental Protection). 1995. Water Quality Based Effluent Limits Procedures Manual.

CCME (Canadian Council of Ministers of the Environment). 1999. (with updates to 2011). Canadian Environmental Quality Guidelines. Winnipeg, MN.

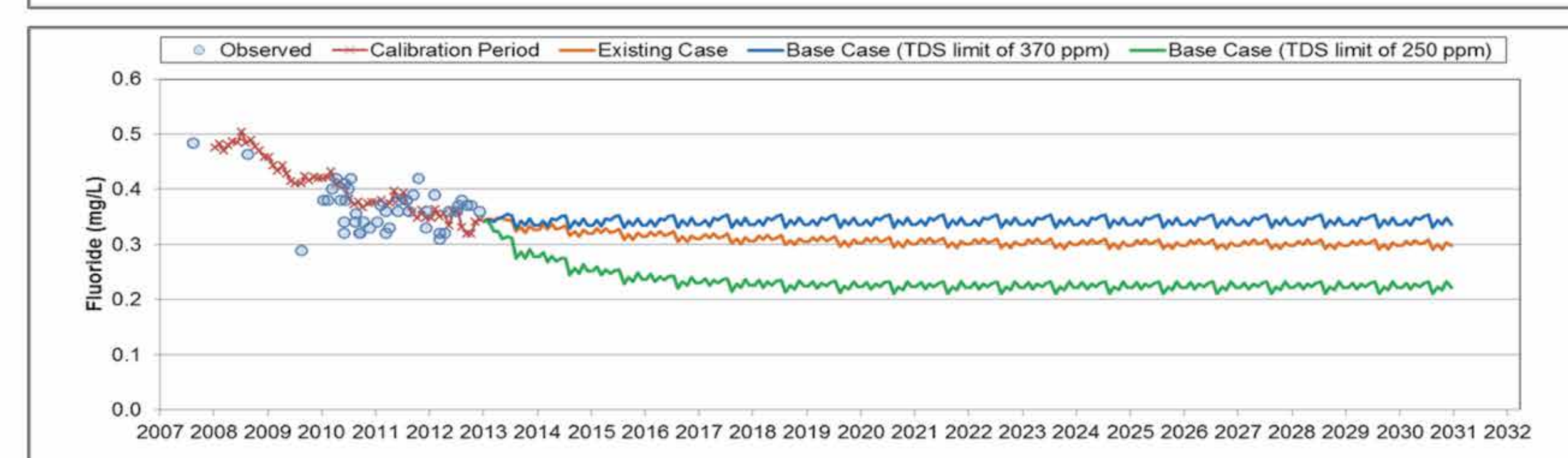
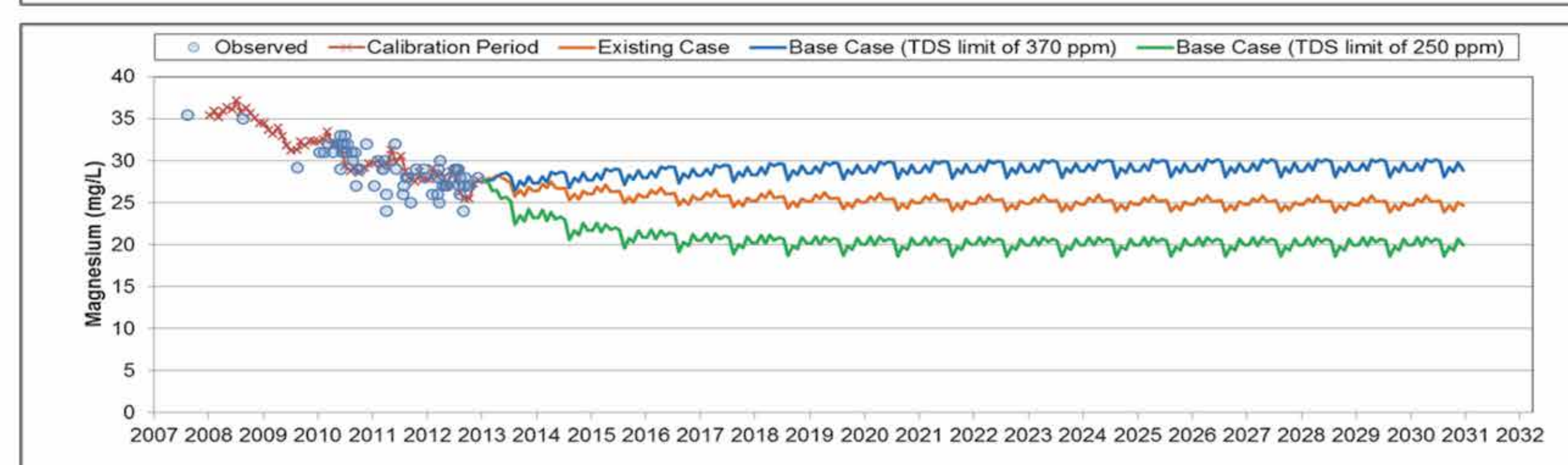
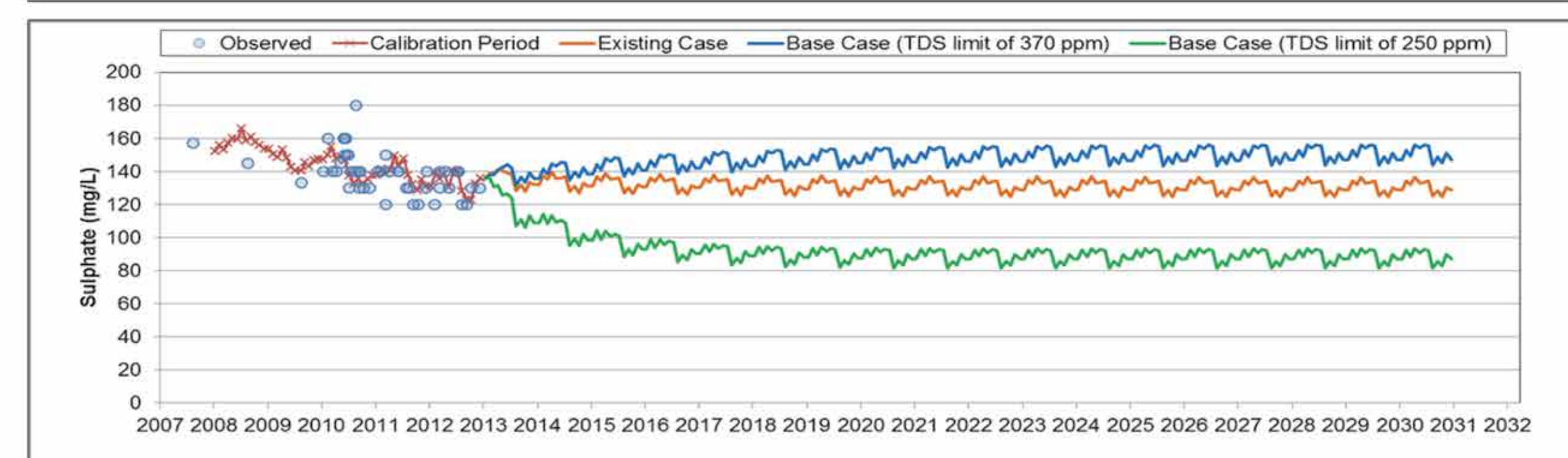
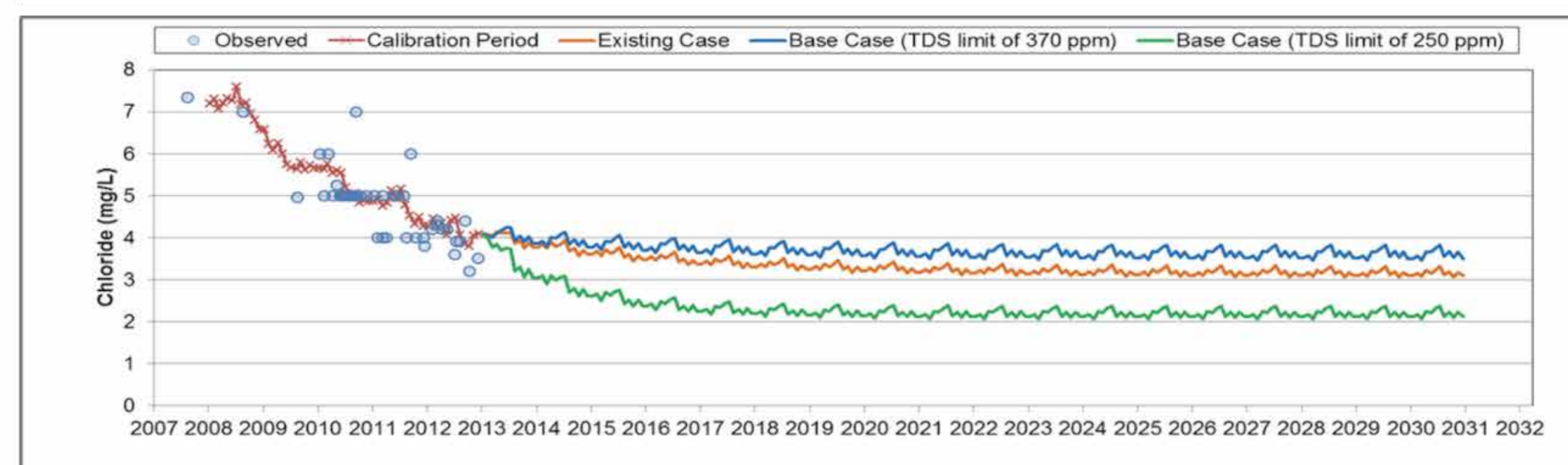
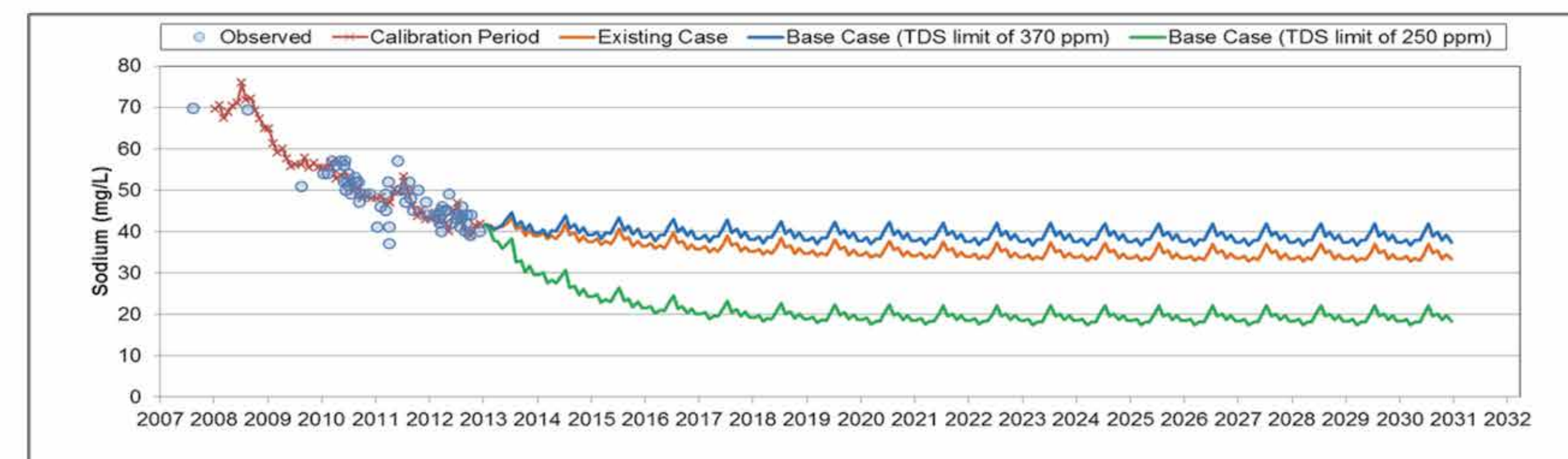
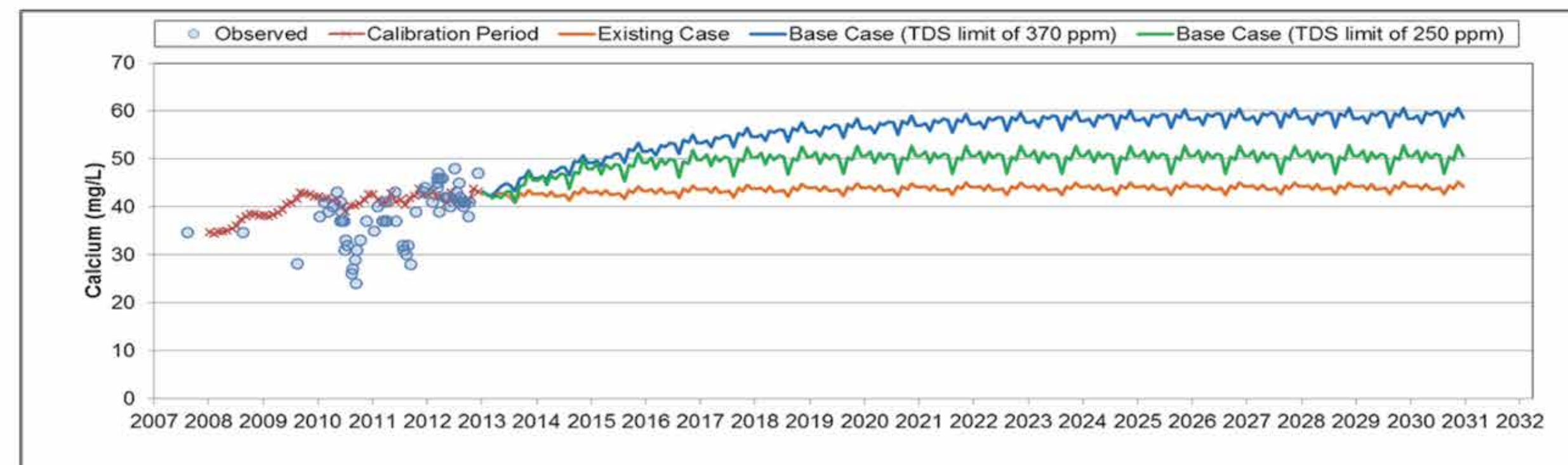
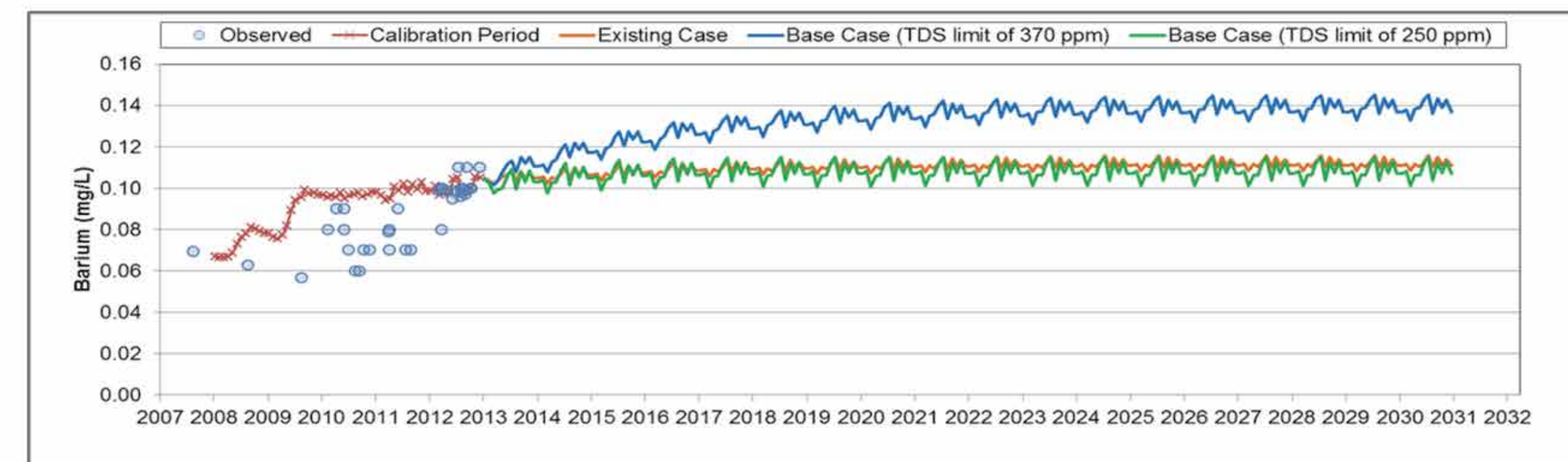
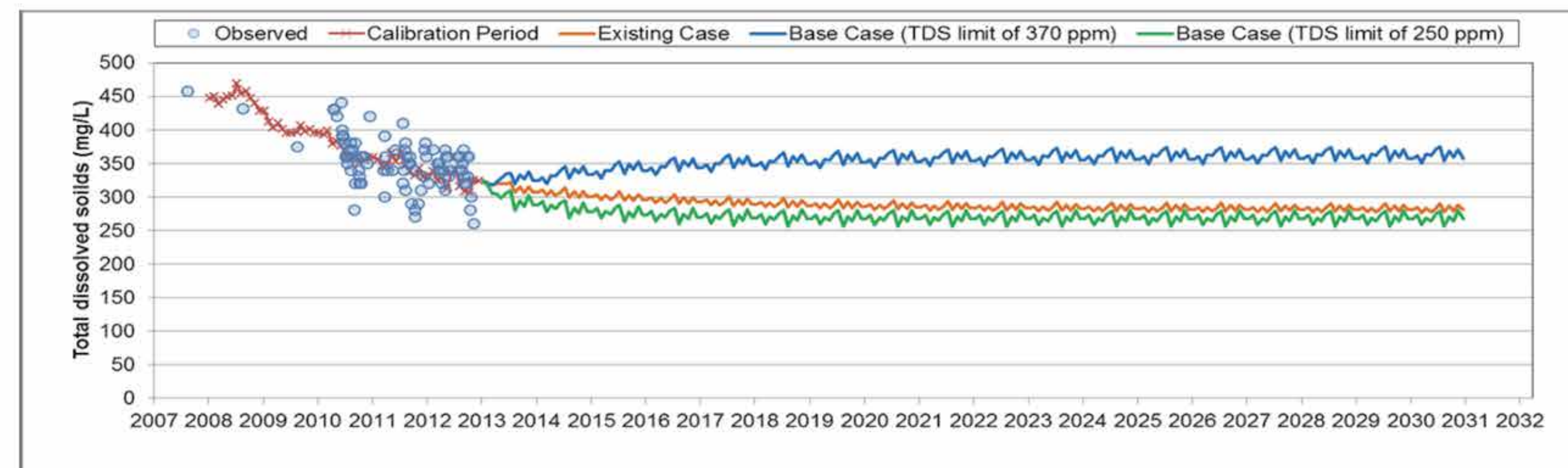
Health Canada. 2008. Summary of Guidelines for Canadian Drinking Water Quality. Prepared by the Federal-Provincial Subcommittee on Drinking Water of the Federal-Provincial-Territorial Committee on Environmental and Occupational Health.

NSWA (North Saskatchewan Watershed Alliance). 2010. Proposed Site-Specific Water Quality Objectives for the Mainstem of the North Saskatchewan River. Edmonton, Alberta. Available online: <http://www.nswa.ab.ca/userfiles/NSWA2010-proposed-site-specific-water-quality-objectives.pdf>



## Genesee Generating Station Units 4 & 5

# Water Quality





# Noise

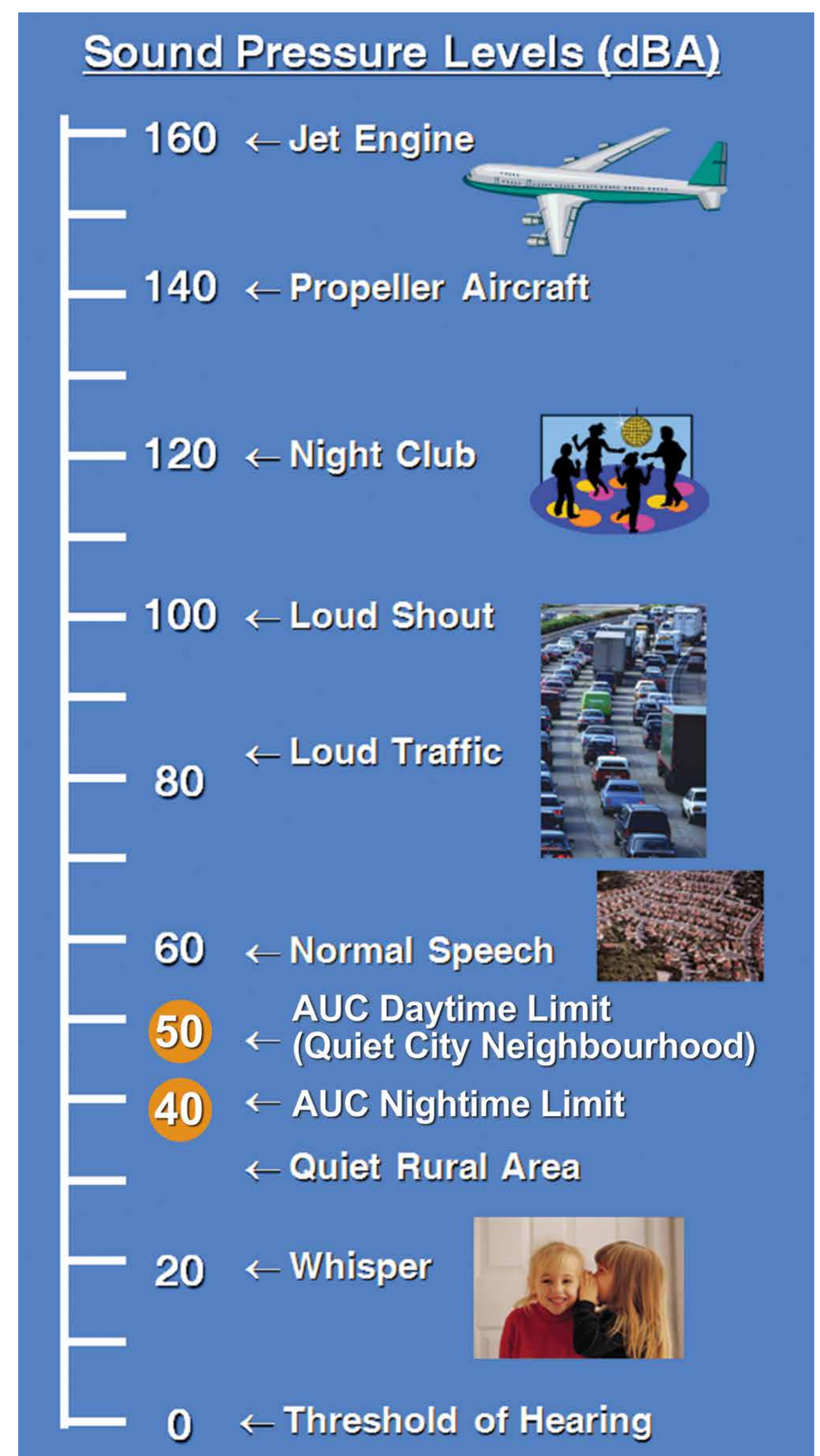
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Acoustic treatment of the buildings and placement of silencers on the air intakes and exhaust stacks of the gas turbines are some of the options to mitigate sound generation from the power plant.





# Roads and Traffic

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## Highway 770 & 627 Intersection

Access to the Project site is off of Highway 770 which will be the main corridor for worker and material transportation during construction. Capital Power understands that the Highway 770 and 627 intersection is a safety concern for residents.

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# Supporting Infrastructure

## Transmission and Substation

Electricity generated by the Project will be transmitted to the adjacent Genesee Substation, which will undergo a minor expansion as a result of the Project. No new transmission lines are required to transfer the energy from the Substation to the provincial power grid.

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- Aqueous ammonia storage for the selective catalytic reduction (SCR) system; and
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# Genesee Licence Renewal – Background and Overview

## Background and Process Overview

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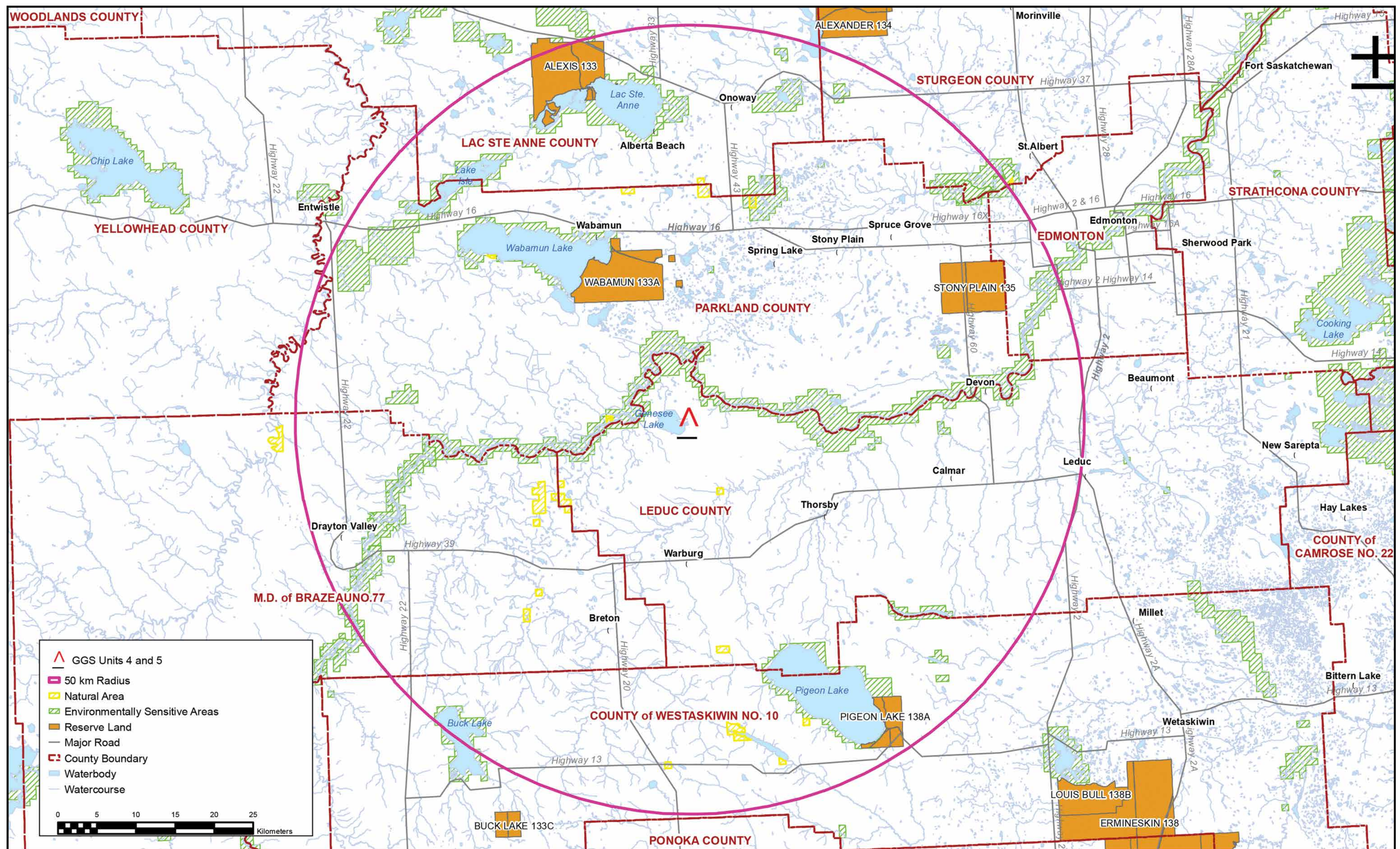
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- Clarification and update of definitions;
- Clarification and update of reporting requirements.



# Regional Setting





## **8.7 Capital Power Submitted Articles Following Open House #1**



# Genesee Open House

from Michael Sheehan, Capital Power

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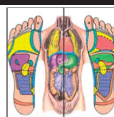
[www.capitalpower.com](http://www.capitalpower.com)

e-mail [publicconsultation@capitalpower.com](mailto:publicconsultation@capitalpower.com)

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"My wife says I talk while I sleep, but I'm skeptical.  
Nobody at work has ever mentioned it."



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phone: 780-848-8474



Rendering of proposed Genesee Units 4 & 5.

**The last Thorsby Target of 2013  
will be published on  
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## Thorsby Custom Built Home



Spacious 2 Story, 3 beds, 3.5 baths, hardwood floors, granite kitchen with island and pantry, double garage attached, fenced yard and deck, Master bed boasts walk in closet and 4 pc Jacuzzi ensuite. Must see at \$299,900.



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## Advent Program "Jesus is Coming" for ages Kindergarten and up



Join us for lessons,  
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**Saturday Mornings:**

10 am to 12 noon  
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**St. Matthew's Lutheran  
Church, Thorsby**

## Come See Santa!!!



**Thorsby Municipal Library  
December 10, 2013  
4:00 – 6:30  
Hot Chocolate and Snacks  
For Everyone**



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The last Warburg Bugle of 2013 will be published on  
**DECEMBER 20th!**

The first paper of 2014 will be out on January 17.

## HEADS UP Family Hair Care

### Christmas Hours

December 24 - 9:00 am - noon

December 25 - 30 - Closed

December 31 - 9:00 am - noon

January 1 - Closed

January 2 - 9:00 am - 5:00 pm

January 3 - 9:00 am - 5:00 pm



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- Christmas Burger  
Appetizer of the Month  
- Bruschetta with Garlic Toast**



**Born in December?**

Come in on your birthday and we'll buy your meal!!



## **8.8 Correspondence with ESRD regarding Aboriginal Consultation**



**From:** Donna Hovsepian [<mailto:donna.hovsepian@gov.ab.ca>]

**Sent:** Friday, November 29, 2013 3:55 PM

**To:** Jennifer Lowry

**Subject:** RE: Capital Power First Nations Plan

Hi Jennifer

For the Genesee 4 and 5 expansions, because the project is located on private lands and the magnitude and duration of the project (construction phases 3+ years and ongoing natural gas power for 35 years) the triggers for First Nation consultation is at the lower end of the spectrum. Since the Paul Band Traditional use area is closer (less than 10 km) to the proposed location there may be a possibility that they identify that their Treaty right to hunt and fish are impacted.

For these reasons, FN consultation should include *notification only* to the following First Nation.

- *Paul First Nation*

For FN consultation contact information, refer to the following website:

<http://www.aboriginal.alberta.ca/documents/Treaty6-FNContacts.pdf>

**NOTE: If the Paul Band or any other First Nations notified on Genesee 3 expansion previously informed the proponent that they do not exercise Rights and Traditional uses in the area either in the form of a letter or on record they DO NOT have to be notified.**

#### Notification

Notification of the project at these early stages would be appropriate. At a minimum, a notification should include plain language information and guidelines for how this information should be presented are found in the 2007 guidelines, under Part III, 4a.

#### Consulting with the Métis

Alberta's First Nations Consultation Policy and Guidelines only require consultation with potentially affected First Nations. At this time, Alberta does not have information that would support a requirement for consultation with Métis communities concerning the project within this area.

#### Plain language Document/Information

As per the Alberta's First Nations Consultation Guidelines on Land Management and Resource Development, prior to public Notice of Application, ACO requires the project proponent to contact potentially adversely impacted First Nations and provide them with plain language project specific information.

Plain language, project specific information shall, at a minimum, include the following:

1. The project proponent's contact information for a First Nation to provide initial feedback and/or request further information about the proposed project;
2. A non-technical, plain language description of the proposed project including the magnitude and duration of the proposed project;



3. A map (or maps) of sufficient scale to clearly illustrate the location of the proposed project in relation to easily identified and/or commonly known landmarks (water bodies, roads, etc.);
4. Clear identification of potential short and long term potential adverse impacts of the project; and
5. The proposed scheduling for construction.

Should the Nation respond to requests for more information, and it is determined that there is a potential to adversely impact Treaty Rights and Traditional Uses, the application will enter into full consultation, where appropriate.

#### Public notices

Also, when the public notice is advertised in the local newspapers the public notice should be sent to the Paul Band along with a cover letter. If the First Nation submits a *letter of no concern* by the time you reach this point in the application process, then there will be no need to send a copy of the public notice to the Paul Band.

Proponents are required to keep track of their consultation and submit them on a bi monthly basis until consultation has been deemed adequate and complete. We encourage you to also send a copy of the bi monthly report to each First Nation for their review. Any other correspondence pertaining to First Nation consultation sent to the First Nations by the Applicant should be cc'd to ACO and AESRD. The first bi monthly is due two months from the date of initial and formal notification and can be sent directly to me at the address below or by email.

ACO may require the project proponent to undertake consultation based on the receipt of new or additional information at any time during the regulatory approval process.

If you have any questions, please do not hesitate to ask. Have a great weekend.

Donna Hovsepian  
Consultation Advisor  
Aboriginal Consultation Office, Red Deer/North Sask  
Aboriginal Relations  
Phone: (403) 340-7750  
Cell: (403) 391-3959  
[donna.hovsepian@gov.ab.ca](mailto:donna.hovsepian@gov.ab.ca)



## **8.9 Presentation to representatives of Leduc County and the Village of Warburg**



# Project Overview

Capital Power is proposing to build the Genesee Generating Station Units 4 and 5 (the Project), a combined cycle natural gas-fired generation facility. Key Project features:

- Two identical combined cycle generating units which could together achieve a combined gross capacity of up to 1,050 MW.
- The Project will be adjacent to the existing Genesee Generating Station (GGS), and will be constructed on a 'brownfield' site (i.e. previously disturbed) and will utilize existing infrastructure (i.e. substation, transmission and water intake/discharge structures).
- Each generating unit consists of a natural gas-fired turbine, a heat recovery steam generator, a steam turbine and an electrical generator.
- Construction of Unit 4 and Unit 5 will occur in two phases. The in-service date for both units is anticipated in the 2017–2020 range.
- Capital Power anticipates submitting regulatory applications for the Project by late 2013 or early 2014.
- Separate applications will be made to the Alberta Utilities Commission (AUC) and Alberta Environment and Sustainable Resource Development (ESRD).



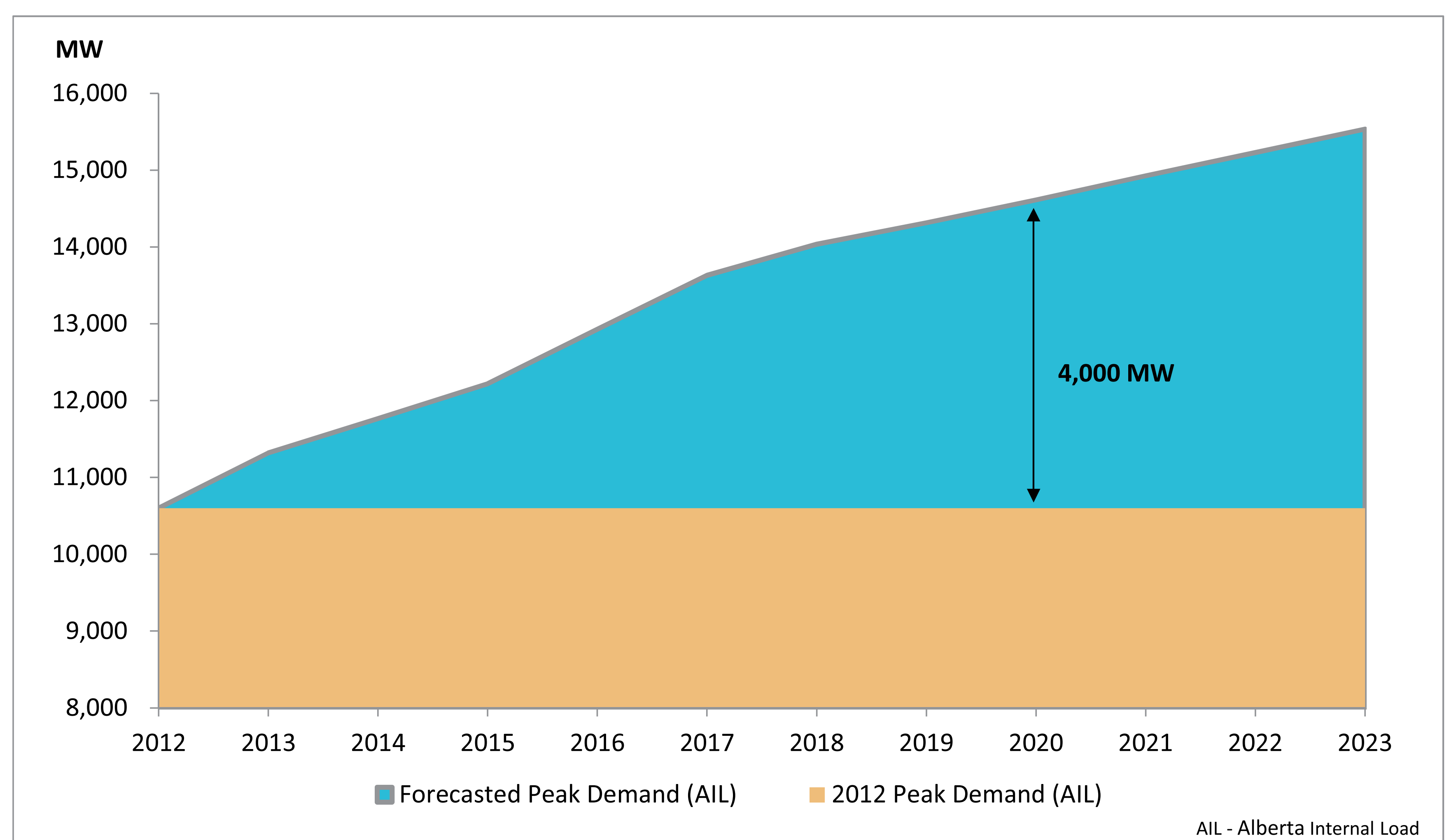
# Helping Meet Alberta's Power Generation Needs

The Project is being developed to meet anticipated increases in Alberta's power requirements arising both from continued economic growth in the province and from the expected retirement of existing coal generating units in the 2020 timeframe.

According to the Alberta Electric System Operator, peak demand will grow from 10,600 MW to 14,600 MW by 2020 or by an average of 500 MW per year.

Situated in central Alberta, the Project is close to existing transmission infrastructure, as well as important electrical load centres such as Edmonton and outlying industrial areas.

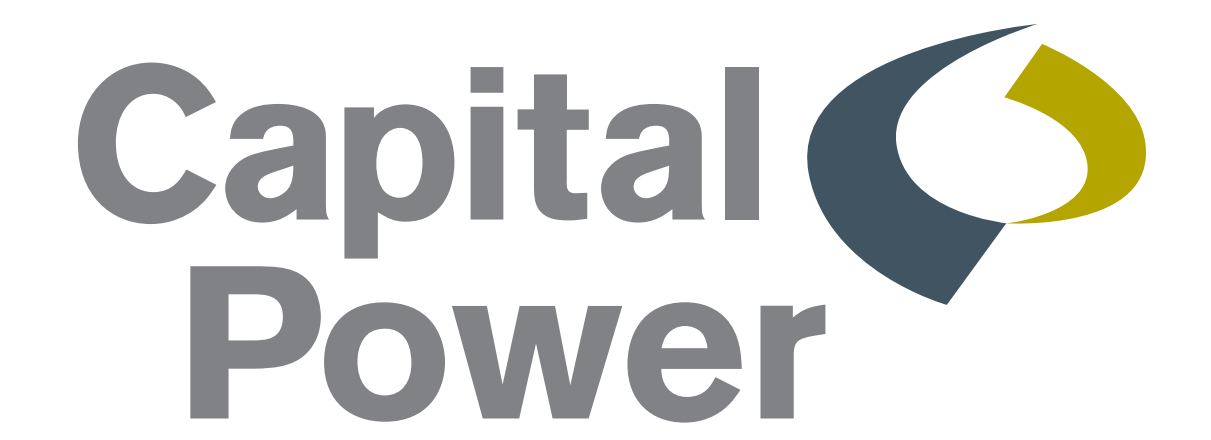
Using an abundant fuel such as natural gas, this facility will provide a reliable, clean and efficient alternative for new generation in Alberta.



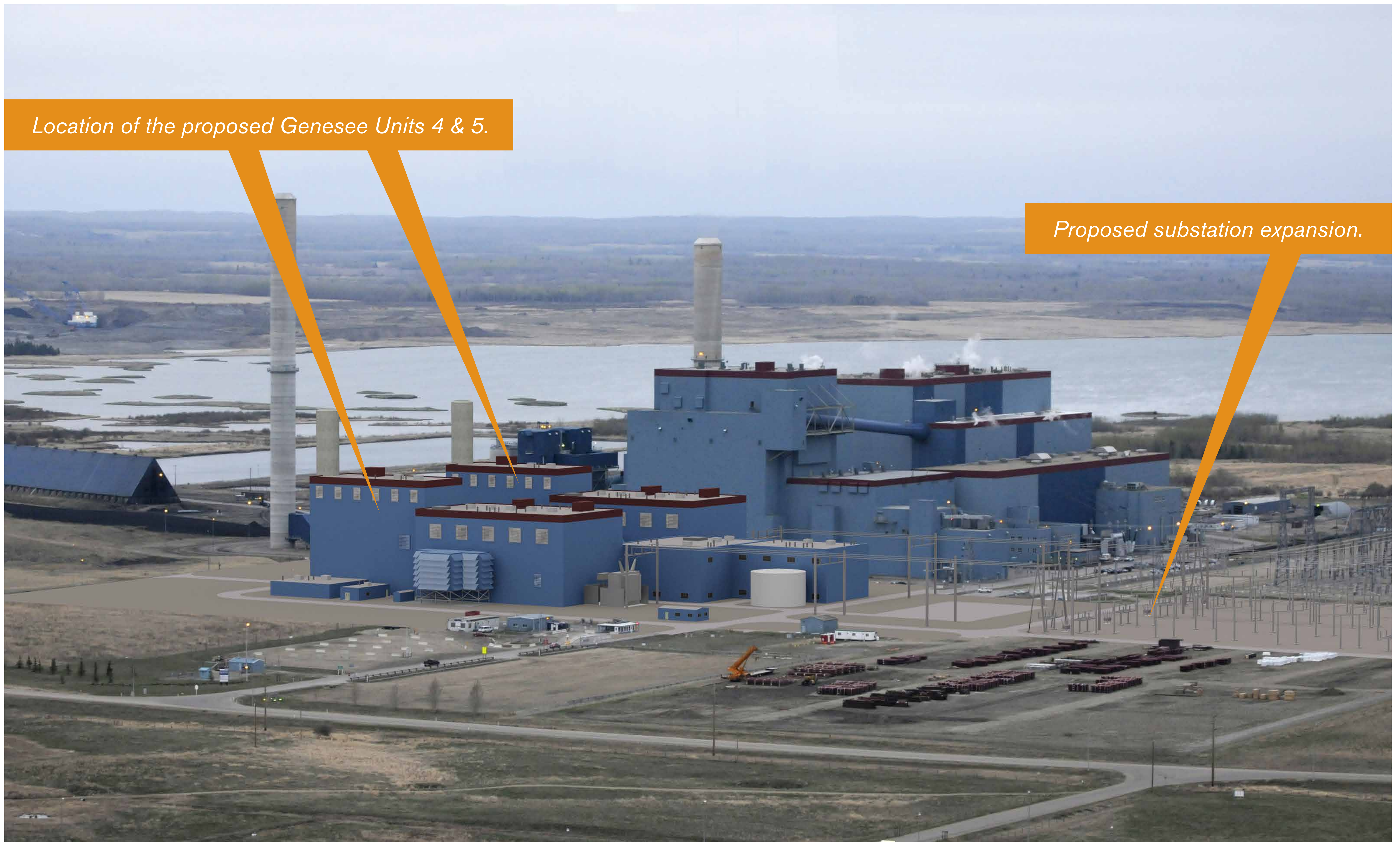
Source: AESO 2012 Long-term Outlook



Genesee Generating Station Units 4 & 5



# Proposed Plant Rendering



*Location of the proposed Genesee Units 4 & 5.*

*Proposed substation expansion.*

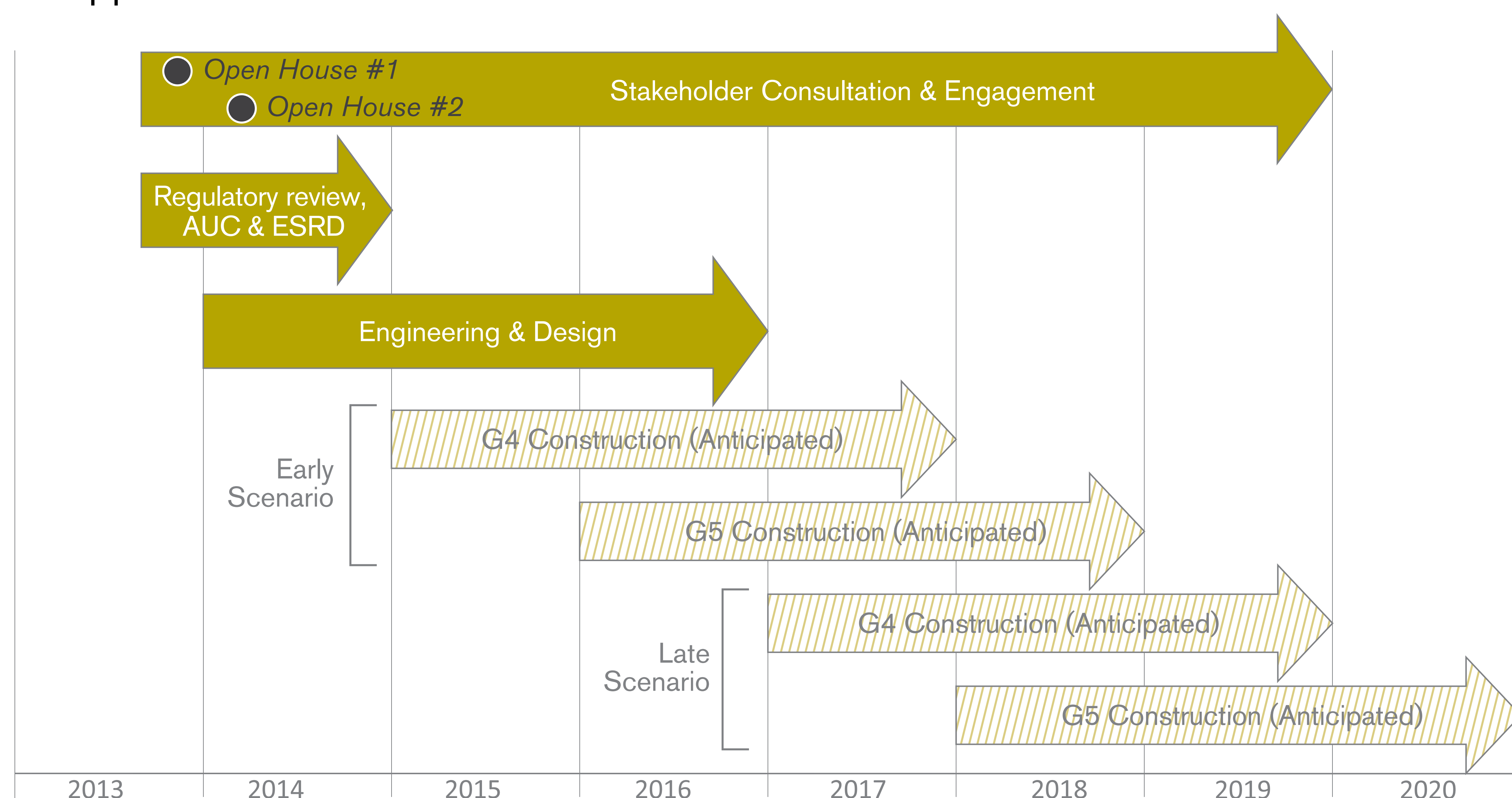


# Proposed Schedule

Capital Power anticipates submitting regulatory applications for the Project by late 2013 or early 2014. The construction schedule will be determined based on the outcome of the regulatory process and an assessment of market conditions.

Separate applications will be made to the Alberta Utilities Commission (AUC) and Alberta Environment and Sustainable Resource Development (ESRD). Capital Power has also engaged the Canadian Environmental Assessment Agency (CEAA) which will determine if a Federal environmental assessment is required.

ESRD has already determined that an Environmental Impact Assessment (EIA) report is not required for the Project and that environmental matters can be dealt with effectively in the EPEA approval application.





# Supporting Infrastructure

## Transmission and Substation

Electricity generated by the Project will be transmitted to the adjacent Genesee Substation, which will undergo a minor expansion as a result of the Project. No new transmission lines are required to transfer the energy from the Substation to the provincial power grid.

## Pipeline

An underground natural gas pipeline will be developed for the Project and will be approximately 78 kilometres in length. The pipeline will connect to an existing high pressure line in the region and will require a separate regulatory approval process prior to construction.

## Additional Infrastructure

This includes:

- Minor additional roads to be constructed;
- Cooling and fire protection water pump house and associated pipelines;
- Aqueous ammonia storage for the selective catalytic reduction (SCR) system; and
- Demineralized tankage and storage for process treated water.



# A Sound Environmental Option for New Power Generation in Alberta

- Advanced combined cycle natural gas-fired turbine technology provides greater efficiency and will help Alberta continue to reduce greenhouse gas emissions. The facility will meet Alberta's air emission standards and performance expectations.
- The facility will use advanced emission-control technology, significantly reducing emissions such as nitrogen oxides (NO<sub>x</sub>).
- The facility will be constructed on a 'brownfield' (i.e. previously disturbed) site and will utilize existing infrastructure (i.e. substation, transmission and water intake/discharge structures).
- No additional diversion of water from the North Saskatchewan River is required for the Project beyond the volumes already permitted under the current licences issued by ESRD for the existing Genesee Generating Station.





# Air Emissions

The Project will use the most advanced gas and steam turbine technology commercially available and meets, or exceeds, the Clean Air Strategic Alliance's (CASA) standards and Alberta's Ambient Air Quality Objectives and Guidelines, as well as performance expectations for air emissions for the Alberta electricity sector.

Selective catalytic reduction (SCR) will be installed for controlling NO<sub>x</sub> emissions from the generating units.

Additionally, dry low NO<sub>x</sub> burners on the gas turbines and adequate stack heights will be implemented to reduce air emissions.



# Water Use

The Project will use water from the existing cooling pond, which draws water from the North Saskatchewan River (NSR). No additional diversion of water from the NSR is required for the Project beyond the volumes already permitted under the current licences issued by Alberta Environment and Sustainable Development (ESRD) for the existing GGS.

- Cooling water for the steam turbines will be sourced from the existing cooling pond by extension of the inlet canal.
- All other water requirements for equipment cooling and cycle make-up will also be met by the cooling pond.
- The proposed Project makes effective use of the existing GGS infrastructure, specifically utilization of the existing river water intake, pumphouse, cooling pond, and point-of-discharge to the NSR. These synergies will reduce any potential environmental effects.
- Marginal changes in the cooling pond water temperature (slightly higher) are anticipated, which will result in a reduction of discharge back to the NSR due to increased evaporative losses from the cooling pond.



*Photos of the intake and outfall structures for GGS. No changes are proposed to this infrastructure for the Project.*





# Noise

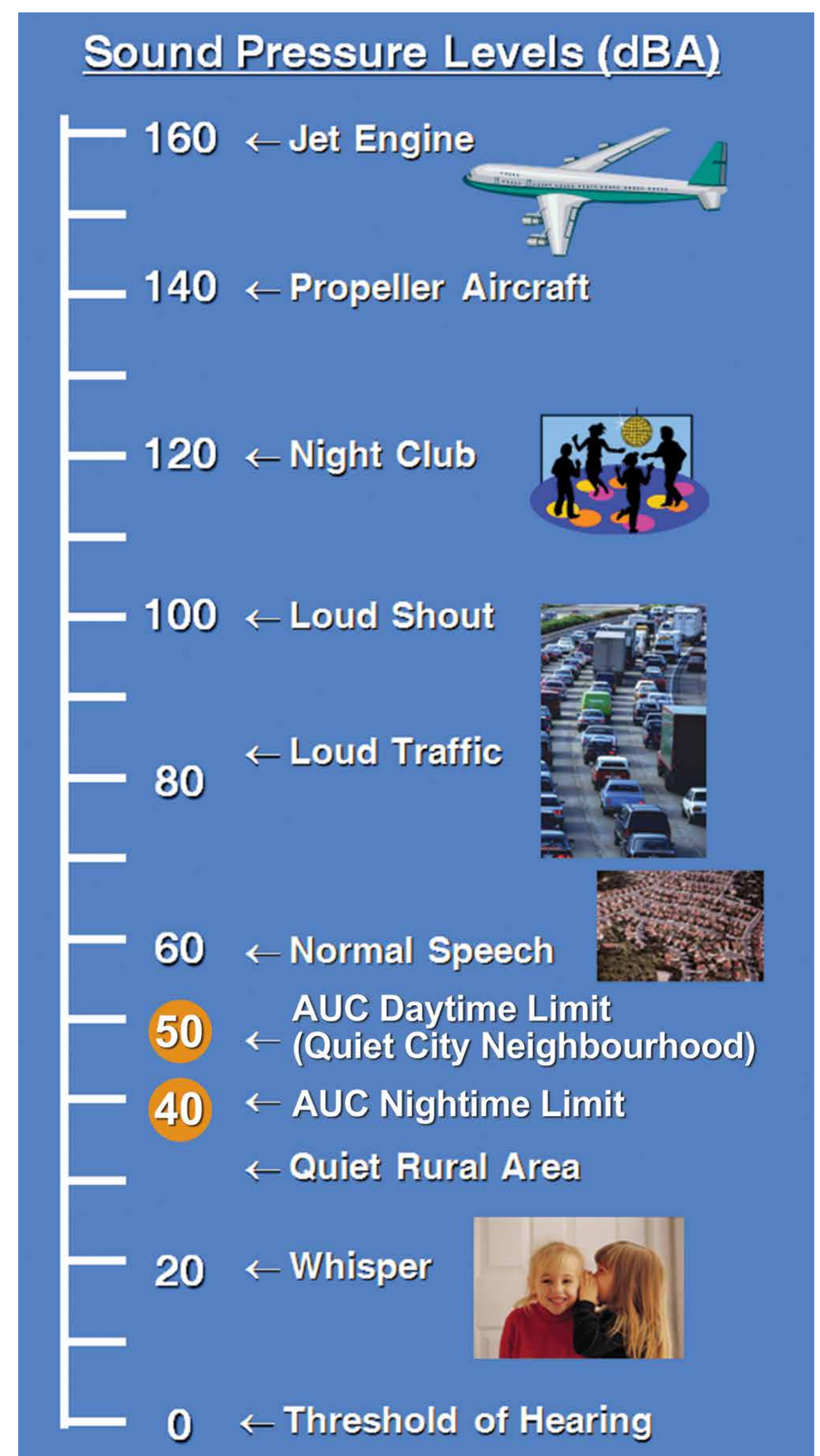
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