

# 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)).

## GENESEEE 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.

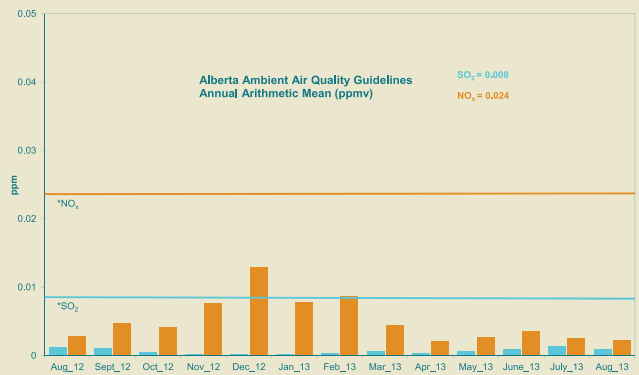
## Genesee Station Environmental Performance

The following graphs show the most recent environmental performance results:

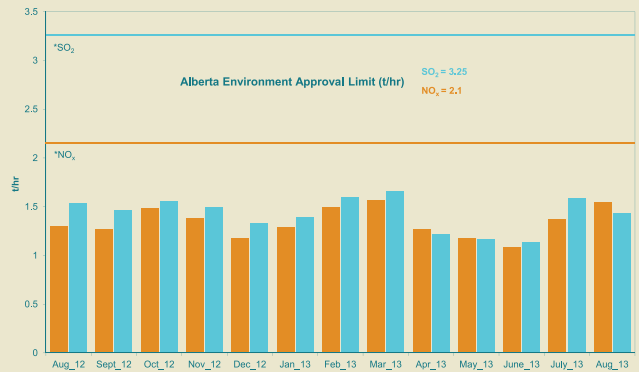
- Ambient air quality as measured by the Genesee ambient air monitoring trailer;
- Stack emissions for stack one (for generating units 1 and 2);
- Stack emissions for stack two (for generating unit 3).

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.

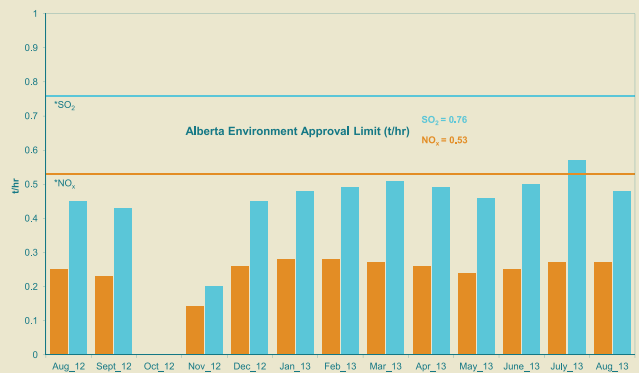
### AMBIENT EMISSION LEVELS



### 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 Sulphur 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 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.

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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)**.