

Lambton Generating Station

Neighbours Newsletter

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Coal Phase-Out Begins at Lambton GS



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In early September 2009, the provincial government announced the plan to shutdown two of Ontario Power Generation's (OPG) coal-fuelled electricity generating units at the Lambton Generating Station (LGS) and two units at the Nanticoke Generating Station in 2010 – four years before the regulated coal phase-out at the end of 2014.

On October 1, 2010, LGS began work to ensure the safe, permanent shutdown of Units 1 and 2 after more than 40 years of service to the people of Ontario. The two units were brought into service in 1969 and 1970 and provided 1,000 megawatts of electricity generation capacity. In the tradition of Thermal flexibility, they combined for more than 5,500 unit starts and 151 terawatt-hours of electricity production, enough to power Ontario for more than a year. They were significant contributors to Ontario's energy mix, providing reliable electricity when needed by Ontarians. Our employees took pride in keeping these units in good running order.

The unit closures at LGS affected 90 positions. Our plant management and human resources staff worked with Union representatives to ensure that employees were treated fairly through this transition. Some employees stayed with OPG to work at other locations, while others retired or took voluntary separation packages. Tom Mitchell, OPG President and Chief Executive Officer, paid particular tribute to staff affected by the unit closures. "I want to thank the people at Lambton and Nanticoke Generating Stations who have operated and maintained these units over the years. They have done a great service to Ontario."

Although LGS Units 1 and 2 have been retired from service, the station will continue to operate Units 3 and 4 on coal in a safe, reliable and environmentally responsible manner for the next few years. OPG is assessing options to convert or "repower" Units 3 and 4 at LGS to cleaner fuel sources like biomass and/or natural gas, post 2014. Repowering of OPG's coal-fuelled electricity generating stations on cleaner fuels makes sense because it makes use of valuable existing assets owned by the people of Ontario, increases use of renewable energy sources and provides Ontario with climate change and economic benefits for years to come. LGS will continue to uphold our high standards of environmental stewardship, maintain strong partnerships with our local stakeholders, and continue to support community programs throughout Sarnia-Lambton.



Biomass Milestone

On August 26, 2010, Ontario Minister of Energy, Brad Duguid, issued a directive to the Ontario Power Authority to negotiate a power purchase agreement for biomass-generated electricity from Atikokan Generating Station (GS) located in northwestern Ontario. This is an important milestone for the station and OPG.

While the directive is specifically for Atikokan GS, work is also underway to assess the potential for repowering Thunder Bay GS, Lambton GS and Nanticoke GS with cleaner fuels like biomass and/or natural gas.

Ontario's Power Company

Ontario Power Generation (OPG) is proud to be Ontario's electricity generation company. Owned by the people of Ontario, we operate a diverse fleet of hydro, nuclear and thermal generating facilities with a strong record of safety, reliability and flexibility. These vital public assets are the backbone of the electricity system. OPG's generation contributes to the well-being of many communities and regional economies and enables wind and other forms of generation. We contribute to the electricity needs of the people of Ontario and in doing so, help advance the province's broader economic objectives. Our success is based on performance excellence in all areas of our operations, prudent financial management, maximizing the value of our diverse assets, expanding our supply of clean and low emission electricity generation and community commitment.



ISO 14001 Certification - Lambton GS
Environmental Management System CERT - 0026459

OPG Reduced Air Emissions in 2009

In 2009, approximately 90 per cent of OPG's electricity production was derived from hydro and nuclear sources that were virtually free of air emissions which cause smog, acid rain and global warming.

Ontario Power Generation (OPG) continued to reduce its climate change footprint with a significant reduction in carbon dioxide (CO₂) emissions. Total CO₂ emissions were 10 million tonnes compared to 23 million tonnes in 2008. The decline in OPG's total CO₂ emissions was a result of lower generation from its coal-fuelled stations, the impact of lower electricity demand in Ontario and more electricity production from other generators in the province.

Air emissions for Lambton Generating Station continue to decline significantly with electricity generation and as more of our generation came from Units 3 and 4, which are equipped with advanced pollution control equipment.

ZeroQuest® Platinum Safety Award for OPG



Ontario Power Generation (OPG) is the first employer in Ontario to be awarded the Infrastructure Health and Safety Association's ZeroQuest® Platinum Safety Award. The ZeroQuest® program recognizes excellence in safety performance, safety systems and safety culture. The Platinum level is reached after five years of sustaining the highest performance level. The award was based on reviews at the corporate level and site reviews at various locations including Lambton GS.

Our progress through the ZeroQuest® program is a good example of the safety partnership between OPG and its unions.

OPG leaders and representatives received the ZeroQuest® Platinum Safety Award on behalf of the company's employees.

LGS Achieved Significant Safety Milestones



On June 29, 2010, Lambton Generating Station (LGS) celebrated significant safety milestones for both employees and contractors.

LGS Plant Manager, Phil Stevens, congratulated employees for working one year and 800,000 hours without a lost time injury.

Stevens also credited contractor staff for their achievement of over seven years and 1.75 million hours worked without a lost time injury. Both milestones were achieved in April 2010.

Keeping Community Leaders Informed



Steve Repergel, Lambton Generating Station's (LGS) Corporate Relations Officer (left), hosted Sarnia-Lambton MP, Patricia Davidson (right), and MPP Bob Bailey (centre), on a tour of Lambton Generating Station's (GS) turbine hall.

Our local government representatives received an update on maintenance work planned for LGS Unit 4 and the potential role that the station will play if repowered on biomass and/or natural gas.

LGS employees worked hard to overhaul the main turbine, which was modified in the early 1990s to improve efficiency. While Unit 4 has operated extensively since that time, the maintenance program ensures continued service that is safe and reliable.

LGS Generates Community Spirit!

Ontario Power Generation (OPG) contributes to the quality of life in the communities in which it operates. Through OPG's Corporate Citizenship Initiatives, Lambton Generating Station (LGS) has been able to support a number of significant programs throughout Sarnia-Lambton. Below is a sample of some of the programs and organizations LGS and its employees have helped support in the local community in 2010.

LGS is a proud sponsor of Petrolia's After School Skill and Drill program. Tutor, Christine Majeski, oversees a few of the 20 Petrolia-area children that OPG supports, through the Organization for Literacy, with language and math skills. The Organization for Literacy in Sarnia-Lambton operates several of these programs in area communities.

OPG is a proud sponsor of the SHAD Valley program, a summer enrichment program for top performing high school students with keen interests in science and mathematics. LGS has partnered with SHAD Valley since 2008. LGS 2010 SHAD Valley Intern, Akruti Patel, poses in front of LGS after successfully completing her two-week internship at the plant.

On June 1st, LGS volunteers took a seat on the Big Bike at Hiawatha Racetrack to support the Heart and Stroke Foundation. The team, OPG Riders with Heart, finished a respectable 4th place in the Big Bike challenge while raising funds to help the organization fight heart disease and strokes. Thanks to teams like OPG Riders with Heart, The Heart and Stroke Foundation garnered a total of \$89,000 through the Big Bike ride fundraiser.

June 18th marked the date of the Canadian Cancer Relay for Life event – a 12 hour, non-competitive relay held near the Clearwater Arena in Sarnia. This event also marked a milestone for LGS, as two teams participated during the relay. The additional team members increased fundraising efforts for The Canadian Cancer Foundation. With a total of 79 teams, 803 participants, 160 survivors, and over 300 volunteers, more than \$290,000 was raised.



Petrolia's After School Skill and Drill Program



Akruti Patel, 2010 Intern, SHAD Valley Program



The Heart & Stroke Big Bike Ride



The Canadian Cancer Relay for Life

OPG Celebrates the International Year of Biodiversity

The conservation of biological diversity is an integral part of Ontario Power Generation's (OPG) sustainable development efforts. Biodiversity refers to the variety of life on earth. It includes the diversity of ecosystems, the diversity of species within those ecosystems and the genetic diversity within species. It also includes the ecological and evolutionary processes that keep them functioning and evolving. From an OPG perspective, it refers to the variety of life in the regions where we operate.

Since 2000, OPG and its conservation partners and communities have planted close to four million trees and shrubs on more than 1,850 hectares of land. It is one of the largest biodiversity efforts in Ontario to protect existing habitats and provide new ones for wildlife, while sequestering carbon dioxide and helping mitigate global warming.



Environment Chemical and Safety Technician/Technologist, Michelle McKay (left), and Corporate Relations Officer, Steve Repergel (right), inspect one of over 1,200 newly planted trees at LGS. Michelle leads the LGS Biodiversity Management Program and obtained re-certification for the site's "Wildlife at Work" Program in 2008.

At Lambton Generating Station (LGS), the station's biodiversity program has three main goals:

- 1. Stewardship:** maintaining and enhancing wildlife habitat on site;
- 2. Partnership:** partnering with community organizations in habitat enhancement programs;
- 3. Education:** educating and involving employees in the station's wildlife habitat program.

As part of this year's biodiversity initiatives and in support of the International Year of Biodiversity, a tree plantation was created at LGS in partnership with the St. Clair Conservation Authority. In total, over 1,200 native Silver Maple, Carolina Poplar, Shumard Oak, Bur Oak and Sycamore trees were planted to help restore and improve the station's perimeter habitat. A second project saw the enhancement of the site's existing Tallgrass Prairie plot by adding native wildflowers and grasses through a partnership with the Rural Lambton Stewardship Network.

In June, 2010, LGS held a biodiversity educational event involving special birds of prey, including a Screech Owl, thanks to Lynn Eves from the Bluewater Centre for Raptor Rehabilitation. It gave employees a greater appreciation of regional wildlife.



A Map turtle enjoys the Lambton GS habitat.



LGS maintains ISO 14001 environmental certification, and has been certified by the Wildlife Habitat Council (WHC) Wildlife at Work program since 1997. WHC certification recognizes excellence in environmental stewardship, including a comprehensive wildlife management program, which LGS continues to demonstrate through its long-term biodiversity efforts.

OPG's biodiversity initiatives are designed to RETAIN habitats that are significant, RESTORE habitats that have been degraded, REPLACE habitats that have been lost, and RECOVER species at risk. The program is part of OPG's biodiversity policy which has been in place since the inception of the company in 1999.

International Biodiversity Award for OPG

On behalf of Ontario Power Generation (OPG), employees from OPG's Biodiversity and Public Affairs groups accepted the Wildlife Habitat Council's highest achievement, the William H. Howard CEO Award. This achievement recognizes outstanding contributions in biodiversity efforts company-wide in the areas of Conservation Education and Outreach.



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Lambton GS Neighbours is published for the community by Ontario Power Generation's Lambton Generating Station.

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