

# Community Update

DECEMBER  
2009

## Moving forward together in challenging economic times



**Duncan Hawthorne** shares a laugh with **Zane** and **Lucas Braun** of Whitechurch. The brothers spoke about their experiences at Camp Woodeden at Bruce Power's annual Easter Seals fund raising dinner held at the CAW Centre. See the article on Page 3.

When we first broke the seal on our calendars back in the snowy days of January, it was easy to predict stormy days ahead. Looking back, as the days of 2009 dwindle, we should take pride in our ability to push through tough weather and even tougher economic times.

The global economic crisis has meant lost jobs, declining investment and hard times for many. As the province's largest independent electricity producer and home to one of Canada's largest infrastructure projects, Bruce Power has not been immune to these hard times.

My goal over the past year was simple: to move our company forward by sticking to our plan. That plan is to always place safety first, continuously improve the way we run our plants and wisely invest in our assets, people and the community.

I believe we have largely delivered that plan and, looking forward to 2010, the pressure will continue to be on Bruce Power to deliver. Personally, I wouldn't have it any other way and have always preferred the pressure of high expectations to the comfort of anonymity.

In 2009, Ontario was faced with a surplus of electricity driven, at least in part, by the recession. We must also remember there has been an abundance of new generation introduced in the province over the past eight years including wind, natural gas and nuclear. Our own Bruce A Units 3 and 4 returned to service in 2003 and 2004 bringing 1,500 megawatts of electricity to a province that was pondering the prospects of rolling brownouts on the heels of a hot economy.

As the economy cooled, we were faced with a new reality in 2009 and were forced to reduce output from our units many times throughout the year. On occasion, we even took units out of service for short periods due to excess electricity on the grid.

When you connect the dots, you can see why this has been an unusual year for those of us in the generation business. However, I firmly believe this is only temporary. In the long-run, I expect our economy to improve and nuclear power continuing to play a key role in keeping the lights on in Ontario.

We must remain focused on the long-term.

With this view in mind and a commitment from the province for 6,300 megawatts from our eight units, we are in a strong position. This emissions-free, affordable baseload power will supply our province for decades to come as we grow and prosper.

In order to prosper, we must continue to deliver.

On the Bruce Restart front, we have borne a number of first-of-a-kind challenges that I believe will better position us to carry out additional refurbishments. However, before we move forward with future work,

we need to complete the project before us and I believe the team we have in place is on the right track.

On the operational side of our business, we continue to remain focused on reliable operations and generate the revenue to convince investors we can deliver. Revenues from our business provide investors some of the capability needed to meet billions of dollars in capital requirements. It is estimated that the refurbishment of all eight units at Bruce Power will require \$16 billion.

Our focus on safe operations has been confirmed again by the Canadian Nuclear Safety Commission with the five-year renewal of our operating licenses for both Bruce A and B, along with approval to refuel Units 1 and 2. We achieved outstanding industrial safety performance over the last year and as this went to press, we had surpassed 16 million hours without an acute lost-time injury. Despite an ambitious agenda, I am proud to say our employees have shown an unwavering commitment to Safety First, our number one value.

I would like to express my genuine thanks to our employees, union leaders and the community for your ongoing confidence and support over the past year. As we look forward to 2010 I am sure there will be stormy days but hopefully lots of sunny ones too as we continue to work to secure Bruce Power's future.

I wish you and your family safe, happy and healthy holidays.



Regards,  
Duncan

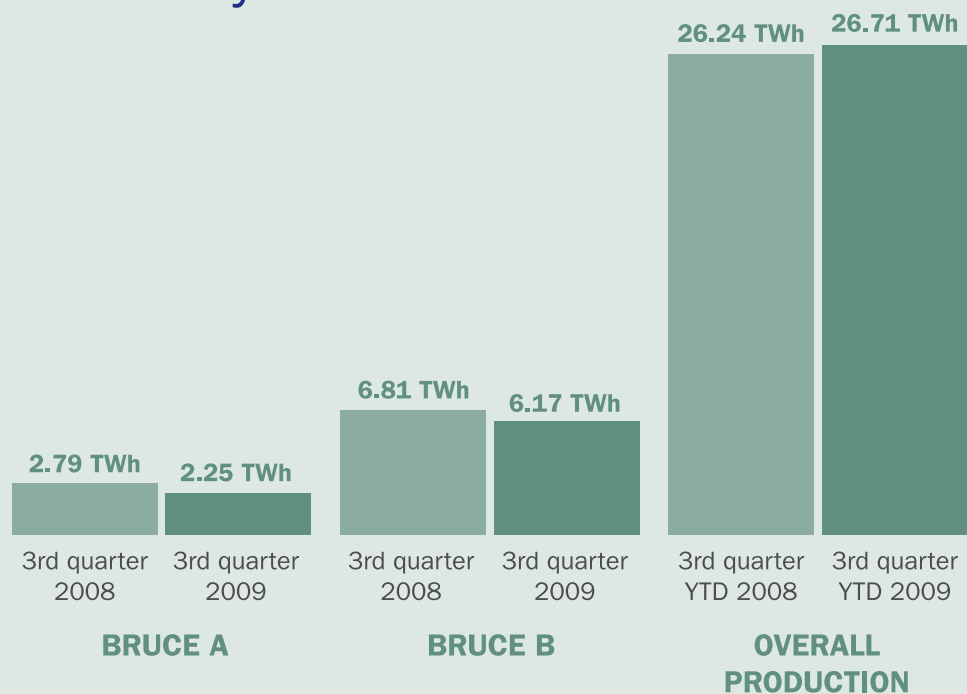


**Duncan Hawthorne**  
President and  
Chief Executive Officer  
Bruce Power

# Bruce Power's third quarter results

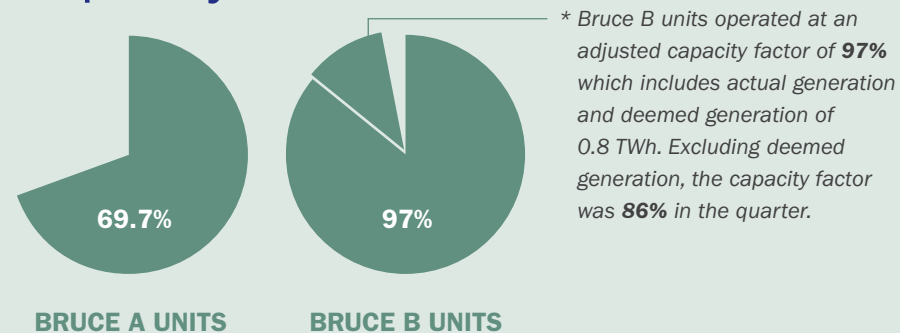
Bruce Power supplied approximately 8.42 terawatt hours (TWh)\* of electricity to the Ontario grid last quarter while continuing an impressive industrial safety streak of more than two years. Bruce Power employees have surpassed 16 million hours without an acute lost-time injury, dating back to February, 2007.

## Electricity Production



\*A terawatt hour is a unit of electrical power equal to one million megawatt hours. For context, a single megawatt hour is enough electricity to power 10,000 average light bulbs for an hour.

## Capacity



The deemed generation resulted from the Bruce B units having their power output reduced in response to dispatch orders from the market.

To the end of September, roughly \$3.1 billion had been invested in the restart of Bruce A Units 1 and 2, which is among the largest infrastructure projects in Canada with a workforce that peaked at more than 2,300. Collectively, they are safely performing more than 145,000 activities, including first-of-a-kind work like replacing 16 massive steam generators and all of the reactors' internal components.



## Bruce Power granted five-year operating licences

The Canadian Nuclear Safety Commission (CNSC) has accepted a recommendation from its staff to renew Bruce Power's operating licences for the Bruce A and Bruce B generating stations for another five-year term.

The CNSC also approved Bruce Power's request to load fuel into Units 1 and 2 once the current refurbishment project at Bruce A reaches that stage.

The CNSC decision followed three days of public hearings on Dec. 11, 2008 in Ajax, Ontario and Sept. 30 and Oct. 1, 2009 at the CAW Family Education Centre in Saugeen Shores. During those final two hearing days, commissioners heard from several interested parties, including delegations from the local community.

"The commissioners take a lot of notice from any presentations they receive from the public, and it was gratifying for us to see the vast majority of those being supportive to Bruce Power as a safe operator and an integral part of the community," said Duncan Hawthorne, Bruce Power's President and Chief Executive Officer.

## Valve repaired following small heavy water leak

Around shift change on Friday, Oct. 23, tritium was detected near an elevator at Bruce A, alerting us to a small heavy water leak from a valve. To make sure our staff were all safe, we activated the station emergency response and had everyone assemble in their designated areas for accounting. We quickly repaired the valve and conducted radiological surveys by 10:30 p.m., and everyone was able to resume normal work routines just after midnight.

While this event posed no risk to the public or offsite personnel, it was reportable to our regulator, the Canadian Nuclear Safety Commission, so we notified them and other agencies as required.

## Gearing up for flu season

Whether it's the regular old bugs or this year's H1N1 threat, Bruce Power has spent many months refining its pandemic plan in the face of the expected flu season.

With so many people and projects on our large site, keeping everyone healthy so they can continue to provide Ontario with a reliable supply of electricity is a top priority.

In addition to our usual service of offering the seasonal flu vaccine free of charge to all employees, we also have the H1N1 vaccine available for staff as well as a supply of anti-viral medications.

Recognizing the importance of education in the battle against the flu, we are also heavily promoting scrupulous personal hygiene and putting measures in place to screen for symptoms.

From stories in our onsite newsletter to reminders on all computer screensavers, employees are being asked to pay special attention to cleanliness, masking their coughs and sneezes and washing or disinfecting their hands frequently throughout the day.



**Natalie McDonald** was front and centre as she told the 400 people attending Bruce Power's Spirit of Giving dinner she had raised enough money to send four children to Easter Seals camp next summer. Helping Natalie with her announcement were **Duncan Hawthorne**, her mother **Christina McDonald** and friend and mentor, **Jeff Preston**.

## \$125,000 raised for Easter Seals at Spirit of Giving Dinner

Ten-year-old Natalie McDonald donates \$8,720 and is still counting

Patient and calm, a confident Natalie McDonald, aged 10, smiled with anticipation as she looked over the crowd of 400 at the Spirit of Giving Dinner held at the CAW Centre in Port Elgin recently. The annual dinner, sponsored by Bruce Power, raises funds for Easter Seals Ontario and its London camp, Woodeden. This year's event raised \$125,000, bringing the total raised for Easter Seals by Bruce Power over the past five years to one million dollars.

It's at Camp Woodeden that Natalie loses her wheel chair, slides into a sledge and chases a puck, then slips into a pool and plays some more. "I get to be a normal kid," she said.

And she wants other children to experience that joy. She told the dinner crowd that "Camp is an important part of my life. Without the support of Easter Seals and all the supporters here, camp wouldn't be possible," Natalie said. She thanked Duncan Hawthorne, Bruce Power's President and Chief Executive Officer for giving her the opportunity to announce that she had raised \$7,600 in cash and another \$1,120 in Canadian Tire dollars.

Since her ninth birthday Natalie has given up birthday presents and instead has asked that her friends and family make a donation to Easter Seals. Her second annual Family Dance Fun Night, held in September raised enough money for four children to go to camp.

"Camp provides Natalie with independence and support. It also inspires her to make a difference in the lives of other kids like her," says Christina McDonald, Natalie's mother. "Thank you to everyone who has provided that support, independence and inspiration. Those are the best gifts a mother could ask for."

Natalie's YES (Youth for Easter Seals) we can campaign, has so far raised \$1,120 in Canadian Tire dollars. That money will be used to purchase equipment for camp. She is still accepting donations which can be mailed to Natalie at:

RR 1 Hanover  
Sideroad 25, #172937  
Hanover, ON  
N4N 3B6



**Paul Kells**, Safe Communities Canada President, presented Bruce Safe Communities with the 2009 Safe Communities Canada Award of Excellence recently. Bruce Power is a sponsor of Bruce Safe Communities and members of the company's Off The Job Safety Team sit on its board. "In three short years, Bruce Safe Communities has set an amazing record for the rest of Canada," Kells said. "It shows how a small group of people can have such a ripple effect and help change things for the better." He said Sam and Susie, two child-sized robot mascots for Bruce Safe Communities, have been an inspiration to Safe Communities across the country. From the left is **Paul Kells**, **Sam**, **Kim Chappel**, Bruce board member and **Rod Kelly**, director, Safe Communities Canada.

## Bruce Power joins local publishing company in honouring First Nation veterans

Nearly 5,000 students received a copy of the book *Honouring Our Peacekeepers: An Overview of Aboriginal Veterans and Peacekeepers* at the Canadian Aboriginal Festival's Education Day, Nov. 27. The theme at this year's event, held in Hamilton, was "Saluting Our Warriors."

For thousands of years, the role of peacekeeper, warrior and veteran have been extremely important for First Nation, Métis, and Inuit people. Ningwakwe Learning Press of Owen Sound published the book to create more awareness of the contributions of First Nations peoples in Canada, and Bruce Power sponsored 5,000 copies of the book.

"Bruce Power is honoured to help Ningwakwe Learning Press make students aware of the great sacrifices First Nations veterans have made. We hope the students who attended the Canadian Aboriginal Festival and received the book feel great pride in the veterans' contributions," said Murray Elston, Bruce Power's Vice President, Corporate Affairs.

Tell me and I will forget,  
show me and I may remember,  
involve me and I will understand

An interactive and creative educational safety facility to aid in the elimination of childhood injuries and fatalities is in the works for the Grey Bruce area.

A working committee of committed volunteers and professionals from Bruce Power, Saugeen Valley Conservation Authority, the boards of education and emergency services in our region are working together to build a Children's Safety Village, an interactive and creative educational safety facility to aid in the elimination of childhood injuries and fatalities. Injury is the leading cause of death for children in Canada. The majority of these deaths were considered to have been preventable.

The village will be developed in partnership with the Saugeen Valley Conservation Authority, on whose land the village is proposed to be constructed. A legal corporation has been established and the project has charitable status.

The Saugeen Valley Children's Safety Village and its programs will be geared specifically for the area's unique environment and will highlight applicable safety issues around farm safety, recreational safety as well as water safety. Currently there are approximately 10 operational Children's Safety Villages located in Ontario. This will be the only one in our region. The villages have non-profit charitable status and a Board of Directors.

For more information, contact Barbara Goetz, Bruce Power's Manager, Community Relations at (519) 361-3659.



## Bruce A Restart: optimizing the team

‘Restart Optimization’ is the focus at Bruce A as the project to rebuild and restart Units 1 and 2 advances into its fifth year.

The project currently employs about 3,500 staff and contractors and, with more than \$3.1 billion invested to date, is one of the largest infrastructure projects in Canada.

Building a team to dismantle and rebuild shut-down nuclear units has been almost as challenging as the actual work. Ontario’s one and only large nuclear design and construction team was demobilized after the province’s last nuclear plant came online in the early 1990s. A lot of smaller companies in the province have since taken on aspects of the work, but nothing to the extent of a new build or rebuild project.

For the Bruce A Restart Project, an arms-length, project management approach with an external contractor ended in March 2008 when Bruce Power took direct control. We have since renegotiated with project contractors to encourage performance, the prospect of future work and an integrated team approach. A whole new division has grown within Bruce Power that rivals the original design and construction force that built the Bruce site decades ago.

Bruce Power Senior Vice President John Sauger heads up the new division with Deputy Vice President John Soini. The Senior VP has worked on everything from the restoration of nuclear plants in the US to building helicopter bases in Afghanistan. John Soini comes from one of Canada’s largest corporations, TransCanada, where he was responsible for infrastructure projects across North America. Together they’ve launched a ‘Restart Optimization’ program that harnesses and directs the resources multiple contractors bring to the project.

‘Restart Optimization’ focuses on engineering, work management, integration, communications and leadership. In short, it brings the contract workforce together under one umbrella with the common resources required to expedite work on the workface. Using a house-build analogy, no longer is the drywall contractor having to wait on the plumbing contractor. If plumbing is the holdup, everybody, knows about it and it’s all hands on deck, whether its materials, engineering or tradespeople.

A new Project Control Centre (PCC) serves as the hub of ‘Restart Optimization’ and in turn the Bruce A Restart Project. Project managers and representatives from the contract groups meet twice a day to review schedules and pool information. Operating around the clock, the PCC is staffed with experts from the various project disciplines including safety, engineering, construction support, maintenance services and radiation protection. If a tradesperson encounters a problem that his or her supervisor can’t immediately resolve, the issue is directed to the PCC for prompt assistance.

With reactor rebuild underway in both Units 1 and 2, the immediate drive is on the restoration of electrical equipment and valves. Electricity is required to power up systems returning to service, and valves control the flow of everything from lake water to heavy water, feedwater and steam. Nearly 4,000 valves are undergoing restoration or replacement in the two units. Transformers are being replaced, as well as inverters, converters, rectifiers, battery banks and other electrical components vital for powering up systems in the two units.

The current forecast calls for Units 1 and 2 to return to service in mid-to-late 2011.

Regular updates are posted on the Restart website, linked to [www.brucepower.com](http://www.brucepower.com).



### Shooting for the stars

Contractors on the Restart Project are making a difference in the communities that surround Bruce Power.

Whether it’s sponsorship at events like Pumpkifest and the Kincardine Scottish Festival or contributing funds towards local hospitals, it all adds value.

Recently, one contractor added tremendous value to the Outdoor Education Centre. In recognition of its 75th anniversary, E.S. Fox donated \$75,000 to the Bluewater Education Foundation to be put towards a proposed astronomical observatory at the facility between Wiarton and Oliphant.

“As a family-owned company that began installing plumbing and heating in people’s homes and is now a large-scale commercial and industrial contractor and fabricator, we know all about shooting for the stars,” said E.S. Fox representative Terry Armstrong.

“Everyone here at E.S. Fox, beginning with President and CEO Spencer Fox, believes a community so supportive of nuclear energy should share in the benefits of nuclear energy.”

Approximately 4,000 students from Grey Bruce participate in programs at the Centre each year. Construction of the observatory is expected within the 2009-2010 school year.