In October 2014, the McClean Lake team shipped the first barrel of uranium concentrate produced from the Cigar Lake mine ore. With the restart of the McClean Lake mill, AREVA Resources Canada is strengthening its commitment to ensuring that all aspects of its operations are managed in a safe, healthy, efficient, economical, socially and environmentally responsible manner.
President’s Message

2014 - What a year it has been! First we started the year by celebrating AREVA and its predecessors 50th Anniversary in Canada. A journey which started in Quebec in 1964 but quickly moved West to explore in Saskatchewan’s Athabasca Basin and led to the discovery of Cluff Lake’s orebody in 1969.

Together AREVA Resources Canada employees overcame many challenges, including four years of care and maintenance at the McClean Lake mill, and ended 2014 with the effective restart of the mill and processing of high-grade ore from the Cigar Lake mine. These are two of the most obvious achievements among many others, in which everyone at AREVA Resources Canada can take pride. These achievements help position us for a long and successful future.

2015 promises to be another great year as our teams work diligently to ramp-up McClean Lake’s production from Cigar Lake ore and make progress towards the completion of the mill upgrade. Our teams also continue to plan for our long-term future through our exploration efforts in various projects particularly in northern Saskatchewan near McClean Lake and at Shea Creek in the western Athabasca Basin, as well as in Alberta and at Kiggavik in Nunavut.

However, it is no secret that our parent company, the AREVA group, is facing some challenges, and for us here in Canada, it means contributing to the group’s efforts in particular by controlling our expenditures and looking for increased efficiencies in everything we do to safely explore for ore and produce uranium concentrate. Safety has always been and remains our number one commitment.

Further, AREVA Resources Canada adheres to the AREVA Values Charter, which outlines the importance we place on sustainable development, ethics, and transparency. This is one of the reasons we have decided to name this publication 2014 Annual & CSR Review to bring into focus our unweathering and increasing efforts in terms of Corporate Social Responsibility.

At AREVA Resources Canada, we are confident in the long-term need for uranium to fuel nuclear power plants around the world, helping provide economic and low-carbon power generation, and contributing to the economic and social growth of the regions where we operate.

Vincent Martin
President and Chief Executive Officer
AREVA Resources Canada Inc.
Health & Safety

Essential Focus

Safety – A Core Value
At AREVA, safety and radiation protection are topics we discuss at work every day. Our employees learn that safety forms the core of our operations, as an integral part of everything we do. AREVA’s facilities are built so they can be safely operated, protecting the health of all people on site.

AREVA considers safety paramount to our operations. Through training, employees learn to consider safety in all their decisions and actions, as a core value integrated in operations. If we don’t think it’s safe, we won’t do it. As an example, when we learned about potential accumulation of hydrogen in the McClean Lake mill leaching circuit, a team of employees and consultants engineered a solution that would safely manage the risk associated with hydrogen. The solution has been implemented and became operational this year.

A recent study by the joint northern community industry and provincial government Community Vitality Monitoring Partnership Process showed that health promotion and safety training programs at the uranium mine sites have a strong influence on the behaviours and attitudes workers carry with them every day, at work and at home. Employees viewed these programs as valuable and as contributing to their overall health and well-being. The McClean Lake site was a major contributor to the study, which indicated that on-site healthy lifestyle promotion plays a significant role in the lives of our northern workers, both in the workplace and at home.

The McClean Lake Operation Emergency Response Team demonstrated its skill with a first-place finish in the proficiency event of the Saskatchewan Mining Association 2014 Emergency Response and Mine Rescue Competition.

The team’s leader, Tracy Gaudry, made history as the competition’s first female captain. (2nd from right in photo)

An Ongoing Commitment
Restarting the McClean Lake mill gave us a chance to rededicate ourselves – and to introduce our new family members – to safe practices.

We’re proud of our safety record, but we know we can always improve. When problems arise, we recognize an opportunity to build our capacity for safe operations. We not only address the problem, we also look for ways to prevent future problems. Annual events like AREVA’s Safety Day involve all our Saskatchewan employees and contractors, giving us a chance to reflect on our performance, to measure our results, and to plan for improvement.

“If we don’t think it’s safe, we won’t do it.”

From left: Travis Grasby, Brett Mitchell, Lindsay Haeusler, Jeff Catte, Tracy Gaudry and Geoff Gerbrant, members of the McClean Lake emergency response team made us proud at the annual Mine Rescue Competition.

![Graphs showing total recordable injury frequency and annual average gamma radiation dose for the McClean Lake Operation and McLean Lake Employees. ]
AREVA employees represent the future of our operations and our communities. Investment in education and training pays off, not only in the quality of our work but also in developing human potential. Through support for training and education, AREVA builds opportunities for the people of Northern Saskatchewan.

An Expanding Workforce
The restart of the McClean Lake Operation creates opportunities for new employees, including a growing number of Northern Saskatchewan residents and an increasing representation of First Nations and Métis peoples. AREVA has committed itself to making sure our newest members receive the training and guidance they need to enjoy long and safe employment.

AREVA also strives to have a representative workforce, including workers of diverse ages, socio-cultural backgrounds, and women at every position level. To date, 25% of AREVA’s workforce is female, compared to an overall 14% average in the Canadian mining industry. The implementation of various measures, such as flexible hours in our Saskatoon offices, contributes to AREVA employees’ work-life balance, and the continued dialogue with employees and their union representatives ensures everyone is committed to making AREVA a safe, productive, and friendly workplace to come to every day.

A Commitment to Growth
As part of our commitment to provide meaningful employment and to contribute to social and economic development, every year AREVA provides training, education, and mentorship to help new employees achieve their personal and professional goals while safeguarding their health and safety. AREVA offers on-site programs, from apprenticeships to leadership training.

An Investment in People
AREVA’s investment in the future includes more than $120,000 in annual scholarships in Northern Saskatchewan and Nunavut, as well as $20,000 for dependent children of employees and mentoring opportunities for new graduates. Further, AREVA offers opportunities for job shadowing and employment skills development.

In partnership with the Northern Career Quest program, AREVA has conducted six mill operator training programs, giving 56 participants from Northern Saskatchewan the opportunity to learn skills and to experience work and life at the McClean Lake mill. By the end of 2014, AREVA had hired 46 of those participants, while many of the others have found employment elsewhere in the mining industry.
People
Our Northern Family

Saskatchewan’s future rests in its northern and Aboriginal people. AREVA knows that future success will be measured not only in jobs, but also in quality of life, preservation of culture, and protection of the environment. Our commitment to northern and Aboriginal communities includes not only a diversified workforce but also community development.

A Communications Challenge
Building communities requires more than standard corporate communications. AREVA makes additional efforts to make sure that all voices are heard: young and old, English, Dene, Cree, and Inuktitut. We welcome the challenge of planning a bright future for our youth while respecting the culture and traditions of our elders. This is why the McClean Lake site welcomes two community elders on opposite shifts each month. Their role is to help bridge cultural differences as well as to foster good communication and understanding between southern and northern employees at all levels.

A Two-way Exchange
We are also committed to helping build communities through education and training of current and prospective employees as well as community and business partnerships.

AREVA continues to develop community relationships, through public events and meetings with leadership, ensuring we listen to our stakeholders.

AREVA maintains offices in Northern Saskatchewan in the town of La Ronge and the community of Stony Rapids. Our northern offices employees travel frequently throughout Northern Saskatchewan to build and maintain relationships with communities’ residents, and implement strategies to help ensure northerners are considered first for employment and training opportunities.

Since the beginning of its activities in Canada in the early sixties, AREVA has been committed to helping build business capacity in Northern Saskatchewan by engaging with communities to develop skill-sets and services needed by the uranium industry. Since then, AREVA has engaged the services of many Northern and Aboriginal companies, such as Athabasca Basin Development Corporation, Athabasca Catering Limited Partnership, CanNorth, Northern Resources Trucking, Osprey Wings, Pattison Geophysics, Stanley Mission Exploration Services, Team Drilling, and West Wind Aviation.

Evolution of Employment at the McClean Lake Site

With the restart of the McClean Lake Operation, half of the workforce calls Northern Saskatchewan home, like Vincent Boneleye in the mill warehouse and mill operators Gabrielle Iron and Cameron Pische.
Environment
Respect and Protection

As part of its commitment to environmentally sustainable operations, AREVA supports – at arm’s length – the work of groups like the Northern Saskatchewan Environment Quality Committee (NSEQC) and the Athabasca Working Group (AWG) community-based Environmental Monitoring Program.

The NSEQC acts as a voice for the people of Northern Saskatchewan, to ensure government and the mining industry acknowledge and respect the needs, values, and aspirations of northern people. NSEQC members meet regularly with representatives of government (federal and provincial) and the uranium industry, touring facilities, discussing concerns, and seeking answers to questions of interest to their home communities.

Measuring Impact
Every year, with the help of community members and an independent third-party provider, the AWG community-based Environmental Monitoring Program collects and analyzes water, air, soil, plant, and animal samples, measuring the impact of mining activities on the surrounding environment. AWG’s annual reports show us – and our communities – that there is no measurable negative environmental impact from mining activities on their communities.

AREVA further supports AWG by sharing information and reports through our website.

AREVA is committed to environmental protection during all stages of activities – from exploration to mining, milling, and decommissioning. Every year, AREVA’s geo-environmental engineers, like Caitlin Brown, inspect new growth at the decommissioned Cluff Lake mine.
Exploration can be a slow and painstaking process. It literally takes years to find areas with high potential and to accurately define ore-bodies. This year, we continued our exploration of a number of promising areas.

This year, on its own and in joint ventures, AREVA drilled over 100,000 metres – over 60 miles.

Diamond Drilling

While AREVA’s geologists take ground readings with various instruments or gather small rock samples, geophysicists measure seismic waves or rock characteristics to help identify drilling targets. They may also use geochemical survey methods, such as digging trenches or taking tiny samples of leaf debris, to identify areas of interest and complement the measurements of the minerals’ and rocks’ physical properties gathered by helicopters or airplanes equipped with geophysical instruments. In the Athabasca Basin, AREVA drilled over 21,000 metres and contributed to over 77,000 metres of drilling through its minority interests in joint venture partnerships.

AREVA and its partners drilled forty-five holes at the Kiggavik project in Nunavut, which resulted in over 11,000 metres of drilling. The exploration team also conducted electromagnetic and resistivity surveys.

In 2015, AREVA and its partners plan to drill roughly 70,000 metres.

The process may seem slow, but the future looks bright!
The highlight of 2014: the restart of the McClean Lake mill, which shipped the first barrels of uranium concentrate from the Cigar Lake mine in October. The credit belongs to the AREVA employees whose teamwork and dedication enabled us to meet our fall restart deadline.

The world’s only facility capable of processing high-grade uranium ore without dilution, the mill will produce 6 to 8 million pounds of uranium in 2015 and continue ramping up production to reach 18 million pounds by 2018.

With the ongoing upgrade and expansion of the mill circuits, we anticipate the McClean Lake mill will have a total production capacity of 24 million pounds. Although 18 million pounds will be used for production from Cigar Lake ore, there will be 6 million pounds of ore available from other sources in the future.

Combined, the Cigar Lake mine and the McClean Lake mill will become the second largest uranium production centre in the world, after the Cameco - AREVA-owned McArthur River mine and Key Lake mill.

With a new powerhouse, including six back-up generators, the mill can continue operations, even during a power outage. Other upgrades include a new solvent extraction circuit, expansion of the crystallization circuit, and a new uranium concentrate (yellowcake) packaging system.

The mill’s laboratory received ISO 17025 certification, and its environment (ISO 14001) and occupational health and safety (OHSAS 18001) certificates were renewed.

With its restart in October 2014, the McClean Lake mill produced its 50 millionth pound of uranium concentrate. By the end of 2014, the McClean Lake mill had processed 0.34 million pounds U3O8 (130tU) from Cigar Lake mine ore. Dave Miller has worked for AREVA for 19 years and is happy to hear the humming of the mill again as he goes about providing maintenance services around the site.
In March 2014, the Cigar Lake mine produced its first ore and now supplies the restarted McClean Lake mill with ore slurry of an average 18% grade. To date, the Cigar Lake/ Mclean Lake operation represents a combined capital investment of $2.4 billion. The Cigar Lake mine will pay dividends, in jobs and expanded business opportunities, to the provincial economy for years to come.

All uranium produced at the Cigar Lake mine is processed and packaged at AREVA’s Mclean Lake mill. By 2018, we anticipate the Mclean Lake mill will produce 18 million pounds of uranium concentrate annually from Cigar Lake mine ore.

AREVA owns 37% of the Cigar Lake mine, partnered with operator Cameco Corporation, Idemitsu Uranium Exploration Canada Ltd., and TEPCO Resources Inc.

**McArthur River/Key Lake**

Production at the combined McArthur River mine and Key Lake mill continued to exceed expectations.

In 2014, AREVA received 5.8 million pounds of uranium concentrate from the McArthur River and Key Lake operations. However, annual production was 6% lower than in 2013 due to a labour disruption that resulted in an unplanned shutdown of the operations for approximately 18 days during the third quarter of 2014.

To date, McArthur River remains the world’s largest, in terms of production, and highest grade uranium mine. The Key Lake mill revitalization, which will simplify operations and improve environmental performance, will help ensure that the McArthur River-Key Lake tandem operation remains the world’s largest uranium producer.

AREVA owns 30.2% of the McArthur River operation and 16.7% of the Key Lake operation, both operated by Cameco.
Since closing the Cluff Lake mine and mill in 2002, AREVA has undertaken a four-part decommissioning process at the site. It includes the planning phase, the physical decommissioning activities, the post-decommissioning and follow-up monitoring program, and finally, the transfer of the site to the Province of Saskatchewan through the Institutional Control Program. The decommissioning is now in the follow-up monitoring phase.

Beginning in 2004, AREVA backfilled the Claude Pit, covered the Tailings Management Area, reclaimed the waste rock piles, and demolished buildings. AREVA also planted over 800,000 trees to allow nature to reclaim the area through re-vegetation. In 2013, AREVA opened access to the Cluff Lake site to the general public, facilitating traditional activities in the area, such as hunting and trapping. Eventually, the Province of Saskatchewan will assume control of the site through the Institutional Control Program.

AREVA continues to monitor the Cluff Lake site, collecting data and inspecting the area four times a year to confirm environmental performance is as predicted in the decommissioning plan.

As the decommissioning process continues, nature reclaims the former Cluff Lake site. The Claude pit seen here through the years demonstrates the results of the reclamation plan to date (2014 in background).
In October 2014, the proposed Kiggavik project achieved a significant milestone, as AREVA submitted the final environment impact statement (FEIS) to the Nunavut Impact Review Board. The FEIS represents more than six years of engineering work, environmental studies, and public engagement. The process resulted in twenty-eight binders, containing more than 10,000 pages.

Throughout the process, and to make sure the project reflects the needs and values of stakeholders, AREVA sought community input from the people of the Kivalliq region, particularly from Baker Lake, as well as communities in the Saskatchewan Athabasca Basin and Northwest Territories that expressed interest in the project.

As the proposed Kiggavik project regulatory approval process continues, AREVA remains committed to community engagement. Through discussions, meetings, consultations, and hearings, AREVA actively seeks input from the people and communities. Our mutual goals include safe employment creation, environmental stewardship, and sustainable development.
Community
Invested in The North

Sustainable Development
As a member of the International Council on Mining & Metals, AREVA shares the goal of sustainable development in our industry. We also know our success depends upon others. AREVA’s operations require the support of on-site and regional contractors who supply vital goods and services.

Meaningful Impact
In 2014, AREVA purchased 25% of all its goods and services from Northern Saskatchewan vendors. These vendors provide vital goods and services to our McLean Lake Operation: transportation, maintenance, security, construction, and catering. In turn, these suppliers provide employment opportunities to northern and Aboriginal communities.

In addition, more than half of AREVA’s spending on the Kiggavik exploration project supports businesses that are either owned by Inuit or Nunavut people or are located North of the 60th parallel from Newfoundland to the Yukon.

Building Communities
In 2014, AREVA continued its practice of meeting with community representatives and stakeholders throughout Northern Saskatchewan and Nunavut to keep them informed of its activities and planned projects as well as to discuss potential concerns.

As part of our commitment to healthy and sustainable community development, AREVA supports community and cultural programs; education, literacy, and youth projects; environmental programming; health and wellness activities; as well as sports and recreation.

AREVA’s community investments include capital projects, such as the construction of a fire hall in Hatchet Lake First Nation, as well as educational, recreational, and cultural programming. With AREVA’s help, northern communities developed new health and wellness support and offered recreational services, including a healing workshop in Fond-du-Lac, the Canoe Lake Mikisew School media studies program, and the Northern Lights School District Football Jamboree.

AREVA’s substantive support for the construction of the Athabasca Denesuline Child & Family Services Youth Group Home in Black Lake demonstrates our commitment to northern youth. This facility now houses at-risk children and provides them with educational, spiritual, and recreational services along with family counseling and holistic addiction and trauma recovery plans that integrate Aboriginal languages and traditional living.

In 2014, AREVA purchased nearly $180 million of goods and services from Saskatchewan businesses, representing over 76% of total spending and an additional $45 million (25% of total spending) specifically from Northern Saskatchewan businesses. Through relationships with northern contractors and suppliers, AREVA contributes to the emerging success of Northern Saskatchewan and Aboriginal business.

At AREVA, we understand that a healthy industry relies on healthy communities. In 2014, we donated over $730,000 to support not-for-profit and community organizations in Saskatoon, Northern Saskatchewan, and Nunavut. This community investment represents over $1,500 per employee.
Community Partnership and Support

Continued Public Support
We could not be more proud of the support we receive from our community partners. The latest independent survey showed eight out of ten Saskatchewan residents support the continuation of uranium mining in Northern Saskatchewan. The long-term tracking of Saskatchewan residents’ opinions shows a consistently high level of public support for the industry.

Building Relationships on Honest and Open Exchange
As part of our commitment to transparent and open communication, AREVA representatives travelled throughout Northern Saskatchewan and Nunavut, sharing information and discussing concerns with community members and leaders. In Northern Saskatchewan, AREVA representatives visited the communities Fond-du-Lac, Black Lake, Stony Rapids, Hatchet Lake, and Wollaston; while in Nunavut, they held meetings with local elected officials and community groups in each of the Kivalliq region communities.

Building Vitality
As part of the Community Vitality Monitoring Partnership Process (CVMPP), AREVA promotes research, communication, and information sharing about mining-related issues. CVMPP focuses on quality of life, wellness, and sustainable development in communities affected by mining activities. In past years, CVMPP has coordinated and completed projects addressing issues such as early child development, employment opportunities, youth engagement, food security, and family life. CVMPP also shares research and information about the social and economic impacts of mining.

Recent CVMPP projects include studies of worker health and wellness programs as well as the costs of poverty in Northern Saskatchewan.

AREVA supports the CVMPP’s vision, to “show that monitoring information related to uranium mining impacts and other community issues can be used to address and act upon issues of priority to northern communities.”

In 2014, more than 500 young people and teachers gathered at Black Lake to celebrate traditional language and culture. AREVA takes pride in helping promote and celebrate the traditional values of Northern Saskatchewan’s Aboriginal people, in the workplace and in their communities.

Support for Uranium Mining 2004 – 2014
Our investment in the decommissioning of the former Cluff Lake mine is paying off. Nature is clearly at work at the re-vegetated site.
The AREVA Group

AREVA Resources Canada Inc.
Corporate Governance

Board of Directors
Jean-François Béland
Executive Vice President
AREVA Canada Inc.

Jim Corman
Vice President Operations and Projects
AREVA Resources Canada Inc.

Vincent Martin
President and Chief Executive Officer
AREVA Resources Canada Inc.

Andreas Mittler
Vice President, Expertise and Projects
AREVA Mining Business Group

Tammy Van Lambalgen
Vice President, Regulatory Affairs and General Counsel
AREVA Resources Canada Inc.

Executive Management
Vincent Martin
President and Chief Executive Officer
AREVA Resources Canada Inc.

Headquartered in France, AREVA supplies high added-value products and services to support the operation of the global nuclear fleet.

The company is present throughout the entire nuclear cycle, from uranium mining to used fuel recycling, including nuclear reactor design and operating services.

AREVA is recognized by utilities around the world for its expertise, its skills in cutting-edge technologies and its dedication to the highest level of safety.

AREVA’s 41,000 employees are helping build tomorrow’s energy model: supplying ever safer, cleaner and more economical energy to the greatest number of people.

AREVA, through its Mining Business Group, is a world leader in uranium mining, producing about 15 percent of global production. The Mining Business Group has a presence on five continents and more than 5,200 employees. AREVA Resources Canada Inc. is a subsidiary of this group, responsible for uranium exploration in Alberta, Saskatchewan and Nunavut, development, mining and milling operations in Saskatchewan, and proposed development in Nunavut and holdings in Quebec.

AREVA hires nearly 600 employees across Canada, working in a range of different business units. AREVA’s offices in Pickering and Kincardine, Ontario, provide engineering and services to Canada’s nuclear power plants. Canberra, an AREVA company, is a leading manufacturer of radiation detection equipment and is located in Concord, Ontario.
AREVA supplies high added-value products and services to support the operation of the global nuclear fleet.

The company is present throughout the entire nuclear cycle, from uranium mining to used fuel recycling, including nuclear reactor design and operating services.

AREVA is recognized by utilities around the world for its expertise, its skills in cutting-edge technologies and its dedication to the highest level of safety.

AREVA's 41,000 employees are helping build tomorrow's energy model: supplying ever safer, cleaner and more economical energy to the greatest number of people.