

TSM Performance by Company

Cameco Corporation



Cameco Corporation is one of the world's largest uranium producers. Nuclear energy plants around the world use its uranium products to generate one of the cleanest sources of electricity available today. Cameco is committed to delivering its products safely and responsibly. Sustainable development principles and practices are integrated at each level of Cameco's organization, from overall corporate strategy to individual employee practice in day-to-day operations.

Cameco's corporate objectives are set out under four measures of success: a safe, healthy and rewarding workplace, a clean environment, supportive communities, and outstanding financial performance.

SAFE, HEALTHY, REWARDING WORKPLACE

Cameco is committed to fostering a strong safety culture, while looking to continually improve. As a result of this commitment, the company has a long history of robust safety performance at its operations and across the organization.

2016 Highlights:

- Several operations reached significant safety milestones, including the Blind River refinery and the Crow Butte operation, passing 10 and nine years, respectively, without a lost time incident.
- The McArthur River mine was recognized with the John T. Ryan National Safety Award for the third consecutive year.

CLEAN ENVIRONMENT

Cameco is committed to being a leading environmental performer. The company keeps risks as low as reasonably achievable and looks for opportunities to move beyond regulatory requirements. Cameco tracks progress by monitoring the air, water and land near its operations, and by measuring the amount of energy used and waste generated. This information helps Cameco identify opportunities to improve.

Cameco's commitment to the environment was recognized this year when Key Lake's Environmental Week initiative was selected as a finalist for the 2017 *TSM Community Engagement Excellence Award*.



2016 Highlights:

- Improved effluent performance at the McArthur River mine.
- Successfully transitioned the Rabbit Lake operation into care and maintenance with no significant environmental incidents.
- Continued to carry out industry-leading research and innovation in groundwater restoration at the company's US in situ recovery operations.

SUPPORTIVE COMMUNITIES

Gaining the trust and support of communities, Indigenous people and governments is necessary to sustainable mining. Cameco earns support and trust through excellent safety and environmental performance, by proactively engaging with stakeholders in an open and transparent way, and by making a difference in communities wherever the company operates.

2016 Highlights:

- Procured over \$210 million in services from locally owned northern Saskatchewan companies (80% of total).
- Employed 1,088 local workers from northern Saskatchewan (704 Cameco employees, 384 contractors).
- Signed a collaboration agreement, the company's third in northern Saskatchewan, with the seven communities of the Athabasca Basin, including three First Nations.

TSM PERFORMANCE

Aboriginal and Community Outreach

Cameco's commitment to meaningful community engagement is reflected in the *TSM* results for its facilities. Key Lake, Rabbit Lake and McArthur River maintained a Level A performance or higher for all indicators of the *TSM Aboriginal and Community Outreach Protocol*.

Crisis Management and Communications Planning

Cameco's corporate office and three participating facilities met all of the criteria of the *TSM Crisis Management and Communications Planning Protocol*.

Safety and Health

Cameco continued to demonstrate high levels of performance in the area of safety and health. Key Lake, McArthur River and Rabbit Lake each achieved at least a Level A performance for all of the *TSM Safety and Health Protocol's* five indicators.

Tailings Management

Cameco has maintained a Level A performance under the *TSM Tailings Management Protocol* for both its Key Lake and Rabbit Lake operations. The company has been engaged in MAC's review of the protocol and is working to implement the new criteria at its facilities.

Biodiversity Conservation Management

Key Lake, Rabbit Lake and McArthur River maintained strong performance in biodiversity conservation management as well, with at least a Level A performance for all three indicators in the *TSM Biodiversity Conservation Management Protocol*.

Energy Use and GHG Emissions Management

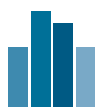
The area of energy use and GHG emissions management represents an opportunity for improvement for Cameco's facilities. The company is working to improve its energy management and expects performance for the *TSM Energy Use and GHG Emissions Management Protocol* to improve in the coming years.

ACHIEVEMENTS

Cameco is a five-time Gold award winner in the Progressive Aboriginal Relations program, which is judged by the Canadian Council for Aboriginal Business. The company is a leading employer of Indigenous peoples in Canada, and has procured nearly \$3.5 billion in services from local suppliers in northern Saskatchewan since 2004. For more information on Cameco's social and environmental performance, please review its Sustainable Development report at www.cameco.com/about/sustainability.

📞 For more information, please visit www.cameco.com



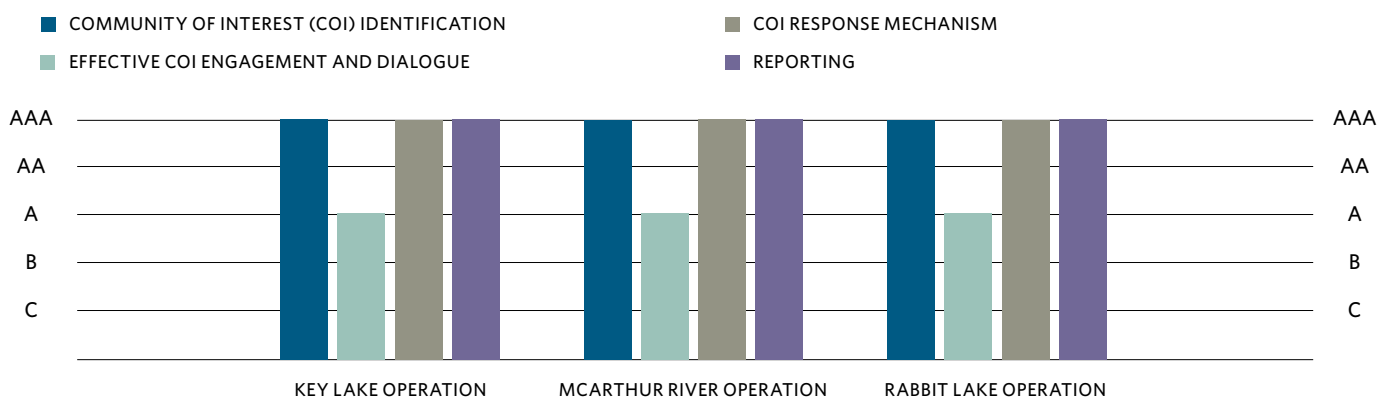


2016 TSM Results Cameco Corporation

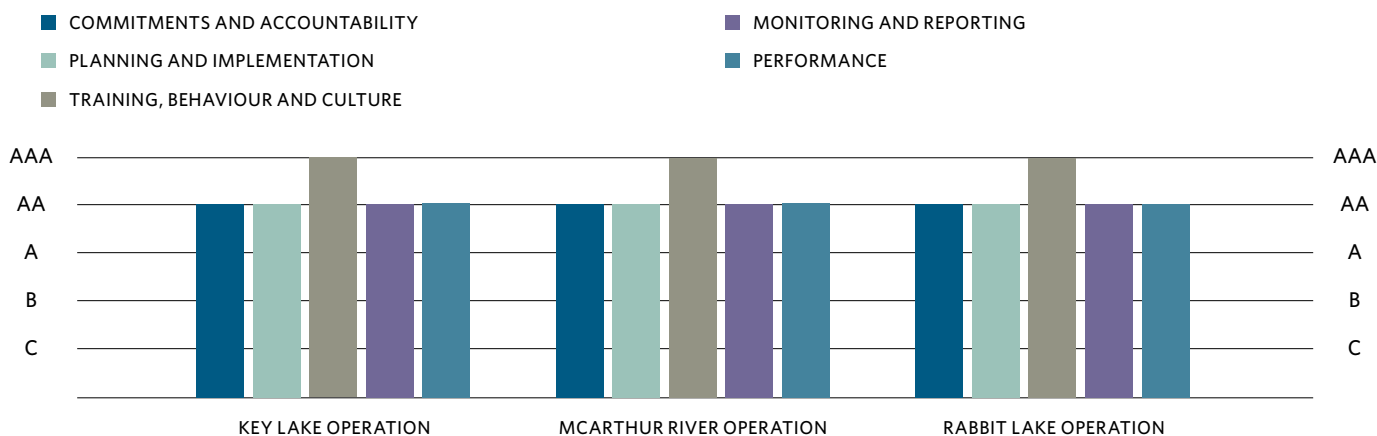
Crisis Management and Communications Planning Assessment

FACILITY	PREPAREDNESS	REVIEW	TRAINING
CAMECO CORPORATION	✓	✓	✓
KEY LAKE OPERATION	✓	✓	✓
MCARTHUR RIVER OPERATION	✓	✓	✓
RABBIT LAKE OPERATION	✓	✓	✓

Aboriginal and Community Outreach Assessment



Safety and Health Assessment

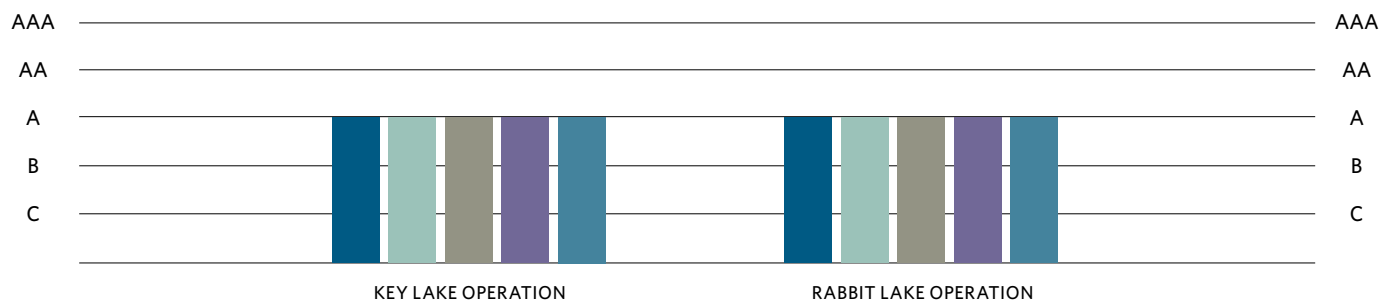


Self-assessed results; last external verification: 2014; next external verification: 2017.



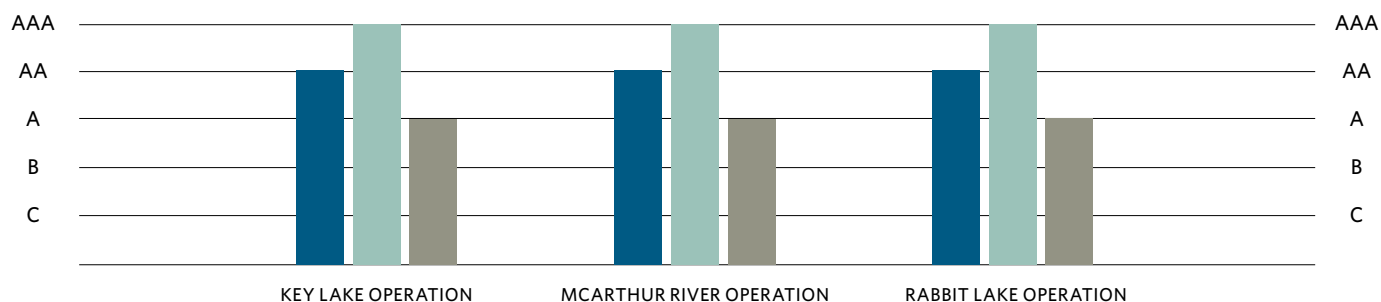
Tailings Management Assessment

- TAILINGS MANAGEMENT POLICY AND COMMITMENT
- TAILINGS MANAGEMENT SYSTEM
- ASSIGNED ACCOUNTABILITY AND RESPONSIBILITY FOR TAILINGS MANAGEMENT
- ANNUAL TAILINGS MANAGEMENT REVIEW
- OPERATION, MAINTENANCE AND SURVEILLANCE (OMS) MANUAL



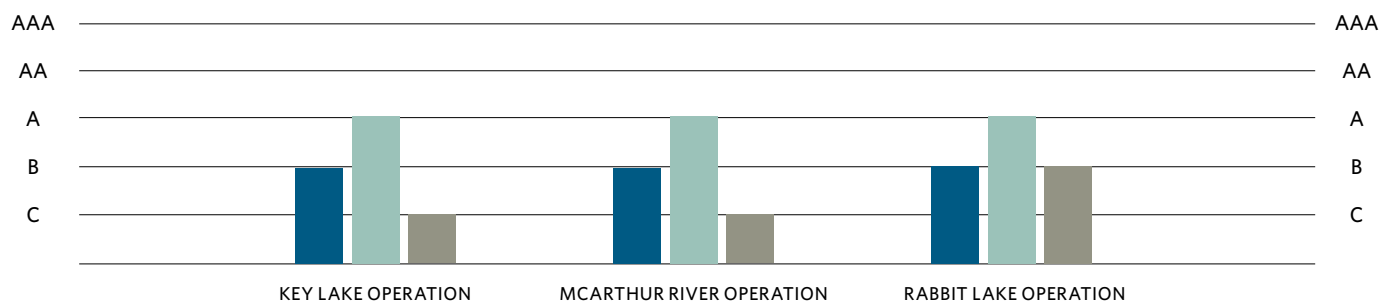
Biodiversity Conservation Management Assessment

- CORPORATE BIODIVERSITY CONSERVATION POLICY, ACCOUNTABILITY AND COMMUNICATIONS
- FACILITY-LEVEL BIODIVERSITY CONSERVATION PLANNING AND IMPLEMENTATION
- BIODIVERSITY CONSERVATION REPORTING



Energy Use and GHG Emissions Management Assessment

- ENERGY USE AND GHG EMISSIONS MANAGEMENT SYSTEMS
- ENERGY USE AND GHG EMISSIONS REPORTING SYSTEMS
- ENERGY AND GHG EMISSIONS PERFORMANCE TARGETS



Self-assessed results; last external verification: 2014; next external verification: 2017.

