

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

#### 2017 Highlights:

- Several operations reached significant safety milestones, including the Blind River refinery and the Crow Butte operation passing 11 and 10 years, respectively, without a lost-time incident.
- The Key Lake mill, Port Hope Conversion Facility and Cameco Fuel Manufacturing made significant improvements in their safety performance over 2016.
- Continued low average dose radiation to workers, including at the Cigar Lake operation as it increased production to license capacity.



## CLEAN ENVIRONMENT

Cameco is committed to being a leading environmental performer. This is done by keeping risks as low as reasonably achievable and looking for opportunities to move beyond regulatory requirements. Progress is tracked by monitoring the air, water and land near the company's operations, and by measuring the amount of energy used and the amount of waste generated. This information helps Cameco identify opportunities to improve.

### 2017 Highlights:

- Successfully managed extended summer shutdowns at Key Lake, McArthur River and Cigar Lake with no significant environmental incidents.
- Continued efforts to systematically improve energy conservation and efficiency in its Saskatchewan and Ontario facilities.
- Completed the multi-year implementation of an environmental monitoring database for all of its operations.
- Brought Cigar Lake up to full production without exceeding an environmental limit or having a significant environmental incident.
- 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.

### 2017 Highlights:

- Over \$170 million in procurement from locally-owned northern Saskatchewan companies (80% of total).
- 954 local personnel from northern Saskatchewan (603 Cameco employees, 351 contractors).
- Signed a collaboration agreement, the company's fourth in northern Saskatchewan, with the seven communities of the Athabasca Basin, including four First Nations.
- Held a northern leaders roundtable - featuring nearly 50 northern Saskatchewan leaders

## TSM PERFORMANCE

Due to difficult uranium market conditions, Cameco has undergone a number of changes to its operations and support functions in recent years, including the temporary suspension of production at McArthur River and Key Lake in early 2018, and the suspension of production at Rabbit Lake and curtailment of US production in 2016. Nonetheless, Cameco remains committed to effective management systems, which is reflected in its strong *TSM* scores.

### Aboriginal and Community Outreach

Cameco's commitment to meaningful community engagement is reflected in the *TSM* results for its facilities. Key Lake and McArthur River achieved Level AAA performance for all indicators of the *Aboriginal and Community Outreach Protocol*.

### Crisis Management and Communications Planning

Cameco's corporate office and participating facilities met all of the criteria of the *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 and McArthur River achieved at least Level AA performance for all of the *TSM Safety and Health Protocol's* five indicators.



### Tailings Management

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

### Biodiversity Conservation Management

Key Lake and McArthur River maintained strong performance in biodiversity conservation management as well, with at least Level AA performance for all three of the Protocol's indicators.

### 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 this Protocol to improve in the coming years.

## ACHIEVEMENTS

Cameco is a five-time Gold award winner through the Progressive Aboriginal Relations program, as judged by the Canadian Council for Aboriginal Business. It was named one of Canada's Top 100 Employers, Saskatchewan's Top Employers, Canada's Best Diversity Employers and Canada's Top Employers for Young People for 2017. It is a leading employer of Indigenous peoples in Canada, and has procured nearly \$3.6 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](http://www.cameco.com/about/sustainability).

🔗 For more information, please visit [www.cameco.com](http://www.cameco.com)



*Cameco water samples being collected at Key Lake as part of the environmental management system.*



Externally  
Verified Results

## 2017 TSM Results Cameco Corporation

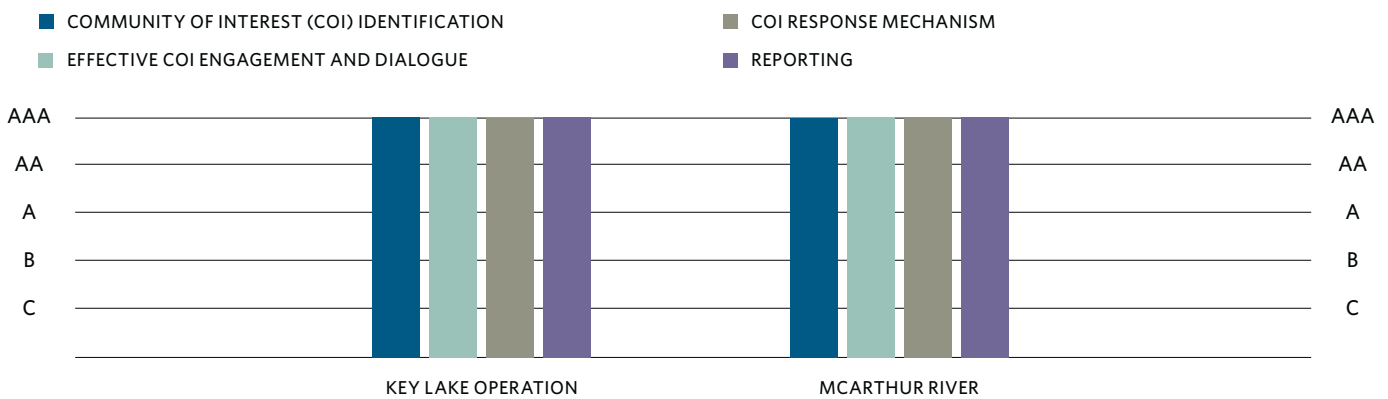
### Crisis Management and Communications Planning Assessment

FACILITY	PREPAREDNESS	REVIEW	TRAINING
CORPORATE	✓	✓	✓
KEY LAKE OPERATIONS	✓	✓	✓
MCARTHUR RIVER	✓	✓	✓

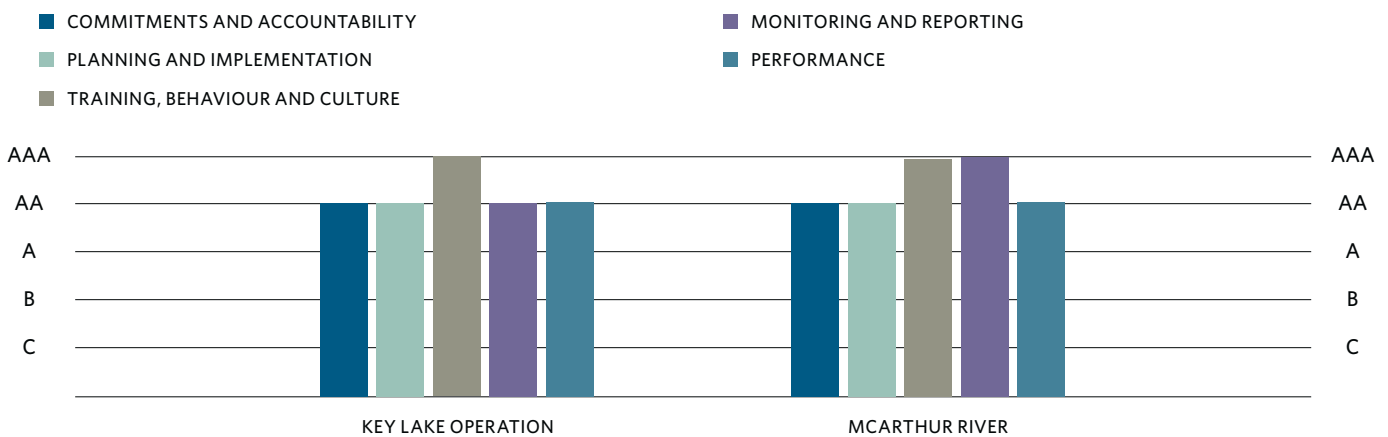
### Preventing Child and Forced Labour

FACILITY	PREVENTING FORCED LABOUR	PREVENTING CHILD LABOUR
KEY LAKE OPERATIONS	✓	✓
MCARTHUR RIVER	✓	✓

### Aboriginal and Community Outreach Assessment

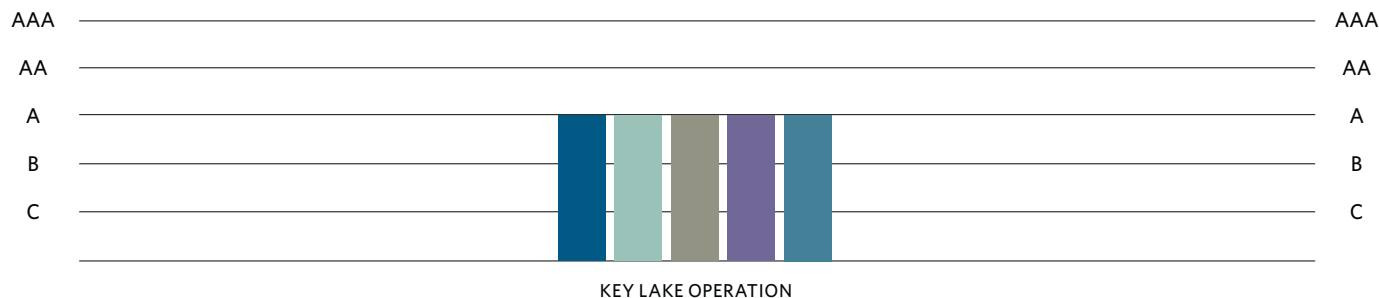


### Safety and Health Assessment



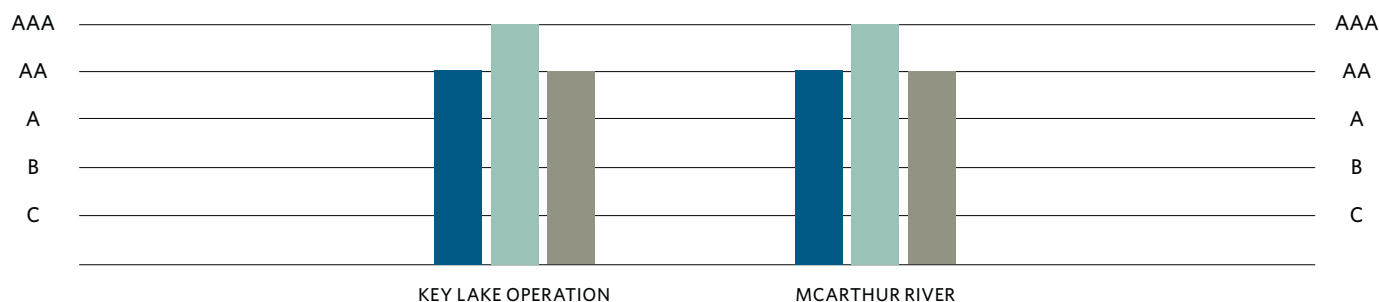
## Tailings Management Assessment

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



## 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

