



B2Gold Nunavut Energy Centre – Human  
Health and Ecological Risk and Accidents  
and Malfunctions Assessment

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TECHNICAL MEETING, COMMUNITY ROUNDTABLE &  
PRE-HEARING CONFERENCE  
OCTOBER 2023

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# CAUTIONARY STATEMENTS



Production results and production guidance presented in this presentation reflect total production at the mines B2Gold operates on a 100% project basis. Please see our Annual Information Form dated March 30, 2022 ("2022 AIF") for a discussion of our ownership interest in the mines B2Gold operates. This presentation includes certain "forward-looking information" and "forward-looking statements" (collectively forward-looking statements") within the meaning of applicable Canadian and United States securities legislation, including: projections; outlook; guidance; forecasts; estimates; and other statements regarding future or estimated financial and operational performance, gold production and sales, revenues and cash flows, and capital costs (sustaining and non-sustaining) and operating costs, including projected cash operating costs and AISC, and budgets on a consolidated and mine by mine basis; and including, without limitation: projected gold production, cash operating costs and AISC on a consolidated and mine by mine basis in 2023; total consolidated cash operating costs for 2022 being between \$610 and \$660 per ounce and at AISC of between \$1,010 and \$1,050 per ounce; total consolidated gold production of between 1,000,000 and 1,080,000 ounces in 2023, with cash operating costs of between \$670 and \$730 per ounce and AISC of between \$1,195 and \$1,255 per ounce; the potential for Fekola Regional to provide saprolite material to feed the Fekola mill starting in the third quarter of 2023; the timing and results of a study for the Fekola Regional to review the project economics of a stand-alone oxide mill; the potential for the Fekola complex to produce 800,000 ounces of gold per year starting in 2026; the potential for the Fekola complex to produce 800,000 ounces of gold per year over a 10-year period; B2Gold's attributable share of Calibre's production; the strategic vision of B2Gold and expectations regarding the potential of the Back River Gold District, including the Goose project and the George Project; the ability to leverage B2Gold's in-house construction and global logistics teams, with specific expertise in remote, cold weather environments; the potential to develop the Back River Gold District, including whether such costs may be covered without further equity dilution to B2Gold shareholders; the potential of building a renewable resources facility in the Back River Gold District and integrating energy efficient initiatives; timing, receipt and anticipated effects of applicable shareholder, court and regulatory approvals; projections; outlook; guidance; forecasts; estimates; and other statements regarding future or estimated financial and operational performance, gold production and sales, revenues and cash flows, and capital costs (sustaining and non-sustaining) and operating costs, including projected cash operating costs and AISC, and budgets on a consolidated and mine by mine basis; the ongoing ability to work cooperatively with stakeholders, including but not limited to local communities and all levels of government; B2Gold's continued prioritization of developing the project in a manner that recognizes Indigenous input and concerns and brings long-term socio-economic benefits to the area. All statements in this presentation that address events or developments that we expect to occur in the future are forward-looking statements. Forward-looking statements are statements that are not historical facts and are generally, although not always, identified by words such as "expect", "plan", "anticipate", "project", "target", "potential", "schedule", "forecast", "budget", "estimate", "intend" or "believe" and similar expressions or their negative connotations, or that events or conditions "will", "would", "may", "could", "should" or "might" occur. All such forward-looking statements are based on the opinions and estimates of management as of the date such statements are made..

Forward-looking statements necessarily involve assumptions, risks and uncertainties, certain of which are beyond B2Gold's or Sabina's control, including risks associated with or related to: the inherent risks, costs and uncertainties associated with integrating the businesses successfully and risks of not achieving all or any of the anticipated benefits of the proposed Transaction, or the risk that the anticipated benefits of the proposed Transaction may not be fully realized or take longer to realize than expected; the occurrence of any event, change or other circumstances that could give rise to the termination of the Agreement; the risk that the proposed Transaction will not be consummated within the expected time period, or at all; the duration and extent of the COVID-19 pandemic, the effectiveness of preventative measures and contingency plans put in place by the Company to respond to the COVID-19 pandemic, including, but not limited to, social distancing, a non-essential travel ban, business continuity plans, and efforts to mitigate supply chain disruptions; escalation of travel restrictions on people or products and reductions in the ability of the Company to transport and refine doré; worldwide economic and political disruptions as a result of current macroeconomic conditions or the ongoing conflict between Russia and Ukraine; the volatility of metal prices and B2Gold's common shares; changes in tax laws; the dangers inherent in exploration, development and mining activities; the uncertainty of reserve and resource estimates; not achieving production, cost or other estimates; actual production, development plans and costs differing materially from the estimates contained herein, or in B2Gold's feasibility and other studies; the ability to obtain and maintain any necessary permits, consents or authorizations required for mining activities; environmental regulations or hazards and compliance with complex regulations associated with mining activities; climate change and climate change regulations; the ability to replace mineral reserves and identify acquisition opportunities; the unknown liabilities of companies acquired by B2Gold; the ability to successfully integrate new acquisitions; fluctuations in exchange rates; the availability of financing; financing and debt activities, including potential restrictions imposed on B2Gold's operations as a result thereof and the ability to generate sufficient cash flows; operations in foreign and developing countries and the compliance with foreign laws, including those associated with operations in Mali, Namibia, the Philippines and Colombia and including risks related to changes in foreign laws and changing policies related to mining and local ownership requirements or resource nationalization generally; remote operations and the availability of adequate infrastructure; fluctuations in price and availability of energy and other inputs necessary for mining operations; shortages or cost increases in necessary

equipment, supplies and labour; regulatory, political and country risks, including local instability or acts of terrorism and the effects thereof; the reliance upon contractors, third parties and joint venture partners; the lack of sole decision-making authority related to Filminera Resources Corporation, which owns the Masbate Project; challenges to title or surface rights; the dependence on key personnel and the ability to attract and retain skilled personnel; the risk of an uninsurable or uninsured loss; adverse climate and weather conditions; litigation risk; competition with other mining companies; community support for B2Gold's and Sabina's operations, including risks related to strikes and the halting of such operations from time to time; conflicts with small scale miners; failures of information systems or information security threats; the ability to maintain adequate internal controls over financial reporting as required by law, including Section 404 of the Sarbanes-Oxley Act; compliance with anti-corruption laws, and sanctions or other similar measures; social media and B2Gold's and Sabina's reputation; risks affecting Calibre having an impact on the value of the Company's investment in Calibre, and potential dilution of our equity interest in Calibre; as well as other factors identified and as described in more detail under the heading "Risk Factors" in B2Gold's most recent Annual Information Form, B2Gold's current Form 40-F Annual Report and B2Gold's other filings with Canadian securities regulators and the U.S. Securities and Exchange Commission (the "SEC"), which may be viewed at [www.sedar.com](http://www.sedar.com) and [www.sec.gov](http://www.sec.gov), respectively (the "Websites"), as well as under the heading "Risk Factors" in Sabina's most recent Annual Information Form which may be viewed at [www.sedar.com](http://www.sedar.com). The list is not exhaustive of the factors that may affect B2Gold's forward-looking statements.

B2Gold's forward-looking statements are based on the applicable assumptions and factors management considers reasonable as of the date hereof, based on the information available to management at such time. These assumptions and factors include, but are not limited to, assumptions and factors related to: B2Gold's and Sabina's ability to achieve timely satisfaction of conditions precedent to the Transaction, including with respect to key regulatory and shareholder approvals; B2Gold's and Sabina's ability to carry on current and future operations, including: the duration and effects of COVID-19 on our operations and workforce; development and exploration activities; the timing, extent, duration and economic viability of such operations, including any mineral resources or reserves identified thereby; the accuracy and reliability of estimates, projections, forecasts, studies and assessments; B2Gold's ability to meet or achieve estimates, projections and forecasts; the availability and cost of inputs; the price and market for outputs, including gold; foreign exchange rates; taxation levels; the timely receipt of necessary approvals or permits; the ability to meet current and future obligations; the ability to obtain timely financing on reasonable terms when required; the current and future social, economic and political conditions; and other assumptions and factors generally associated with the mining industry.

B2Gold's forward-looking statements are based on the opinions and estimates of management and reflect their current expectations regarding future events and operating performance and speak only as of the date hereof. B2Gold does not assume any obligation to update forward-looking statements if circumstances or management's beliefs, expectations or opinions should change other than as required by applicable law. There can be no assurance that forward-looking statements will prove to be accurate, and actual results, performance or achievements could differ materially from those expressed in, or implied by, these forward-looking statements. Accordingly, no assurance can be given that any events anticipated by the forward-looking statements will transpire or occur, or if any of them do, what benefits or liabilities B2Gold will derive therefrom. For the reasons set forth above, undue reliance should not be placed on forward-looking statements.

## Non-IFRS Measures

This presentation includes certain terms or performance measures commonly used in the mining industry that are not defined under International Financial Reporting Standards ("IFRS"), including "cash operating costs" and "all-in sustaining costs" (or "AISC"). Non-IFRS measures do not have any standardized meaning prescribed under IFRS, and therefore they may not be comparable to similar measures employed by other companies. The data presented is intended to provide additional information and should not be considered in isolation or as a substitute for measures of performance prepared in accordance with IFRS and should be read in conjunction with B2Gold's consolidated financial statements. Readers should refer to B2Gold's Management Discussion and Analysis, available on the Websites, under the heading "Non-IFRS Measures" for a more detailed discussion of how B2Gold calculates certain of such measures and a reconciliation of certain measures to IFRS terms.

## Cautionary Note to United States Investors

The disclosure in this presentation was prepared in accordance with Canadian National Instrument 43-101 ("NI 43-101"), which differs significantly from the requirements of the SEC, and resource and reserve information contained or referenced in this MD&A may not be comparable to similar information disclosed by public companies subject to the technical disclosure requirements of the SEC. Historical results or feasibility models presented herein are not guarantees or expectations of future performance.

## Human Health Risk Assessment Methodology

- ◆ The Project's risks to human health evaluated
- ◆ Baseline studies characterized pre-disturbance conditions
- ◆ Human Health and Environmental Risk Assessment (HHERA)
  - > Comprehensive and systematic process to identify, analyze and evaluate Project effects on human and ecological receptors during the 2014 FEIS
  - > Assessed potential risks to human health via:
    - Air quality
    - Water quality and fish
    - Country foods (vegetation and wildlife) and noise interactions

# HUMAN HEALTH AND ECOLOGICAL RISK ASSESSMENT



## Community Input and Traditional Knowledge

### Key Sources:

- ◆ NTKP database report
- ◆ Project-specific TK report
- ◆ Public consultation records and database
- ◆ Socio-economic studies / land use report

### Key Issues Identified:

- ◆ Inuit culture, harvesting, and livelihoods remain vibrant
- ◆ Communities should benefit
- ◆ Employment and training opportunities (focus on youth)
- ◆ Programs to support workers and their families

### Mitigation Measures:

- ◆ Community engagement
- ◆ Inuit Environmental Advisory Committee (IEAC)
- ◆ Preferential employment, training, youth scholarship, and contracting opportunities for Inuit
- ◆ Employee and Family Assistance Program (EFAP), country food facility, cultural leave considerations, pre-employment orientation, intercultural awareness training
- ◆ IIBA and other community contributions

# ACCIDENTS AND MALFUNCTIONS ASSESSMENT



## Assessment Methodology

- ◆ Assessed the risk of major accidents or malfunctions occurring as a result of the Project
- ◆ Process includes:
  - > Identifying the hazards
  - > Assessing the risk
  - > Evaluating existing controls
  - > Identifying additional risk controls to implement, if required
  - > Establishing a process of monitoring and review
- ◆ Assessment and mitigation of risk is a process that continues through the life of the Project
- ◆ Identified hazards are common to any northern mining operation; none are unique to Back River
- ◆ As identified in Sabina's FEIS, Volume 9, Chapter 3, Accidents and Malfunctions, the primary environmental concern resulting from accidents and malfunctions is the possibility for spills, release of chemicals, reagents, petroleum products or process materials onto the land or water. Sabina notes that the addition of renewable energy to Sabina's Back River Project will reduce the amount of petroleum products required to be mobilized to and utilized on site, therefore ultimately reducing the primary concerns from accidents and malfunctions at the mine site.



# Technical Comments

# TECHNICAL COMMENTS



- ◆ 0 Technical Comments covering Human Health and Ecological Risk Assessment
- ◆ 1 Technical Comments covering Accidents and Malfunctions Assessment
- ◆ Kitikmeot Inuit Association: 1
  - > Resolved: 0
  - > Resolved with Commitments: 0





**B2GOLD**

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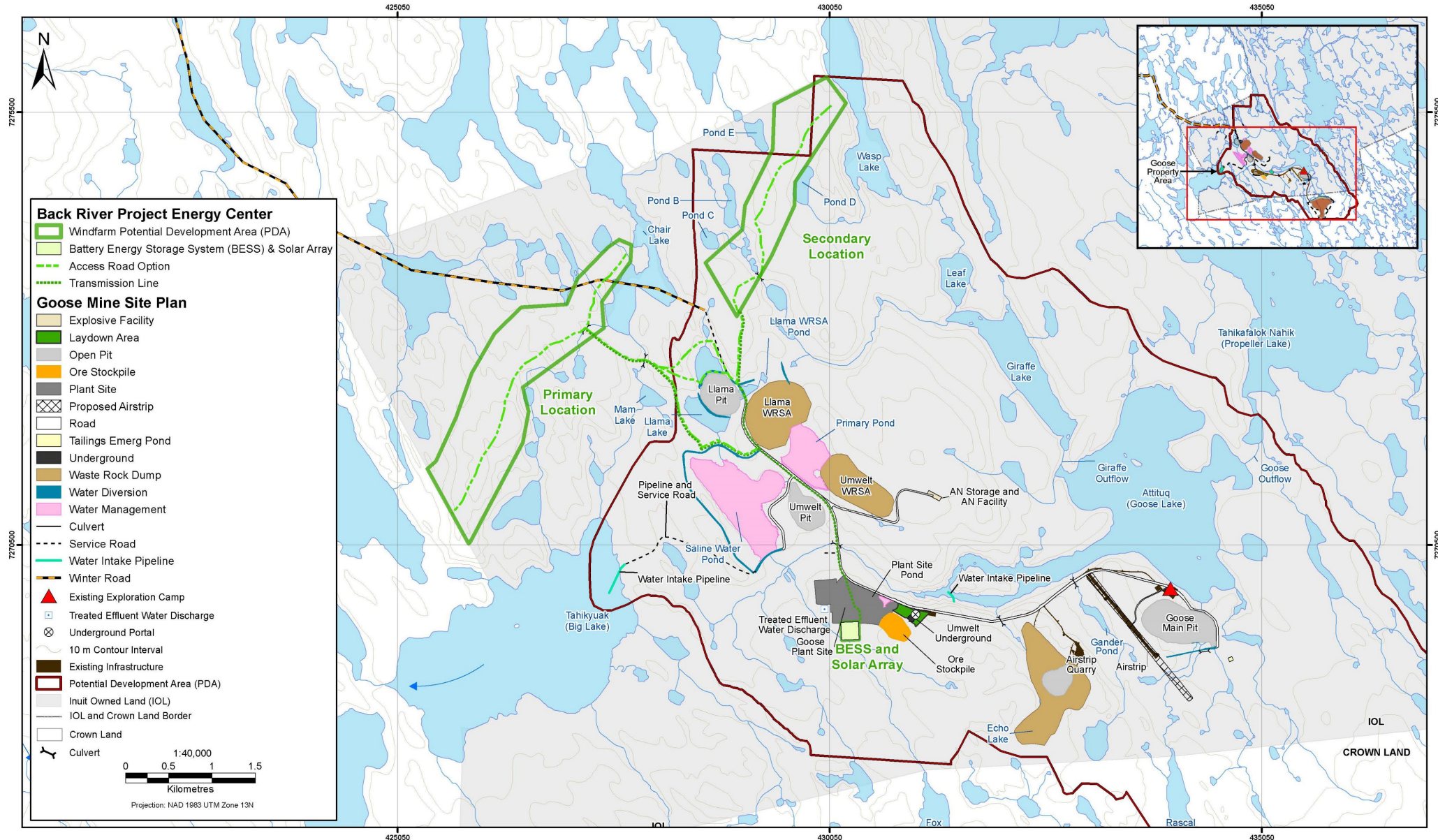
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**Koana**

**Thank you**



# PROPOSED LAYOUT





# BACK RIVER ENERGY CENTRE PROJECT

The Back River Project Energy Centre, a wind generation facility, solar panel array and Battery Energy Storage System, capable of supplying clean energy to the Back River Project Mine.

Up to **13** planned  
Wind Turbine Generators.

Hub Height 111 m

Rotor Length 69 m

Rotor Diameter 138 m

Between

**4.0 and 4.5 MW**

power capacity per wind turbine giving the system a generation capacity of approximately 55 MW of electricity, which is sufficient to cleanly power the Back River Project Mine.

**Solar Array and  
Electrical Station**  
will be located near the  
Diesel Power Plant.

**Electrical transmission lines** will be laid directly on the tundra and/or laid directly adjacent to the access roads and covered with aggregate.

**Solar panels** may also be added.

Additional electricity generated by the wind turbines and solar array will be stored by the **Battery Energy Storage System**. The Battery Energy Storage System consists of lithium-ion batteries stored in a seacan on an aggregate pad and will be capable of storing energy to be used at times when wind and solar energy is not available.

Approximately  
**500 m**  
between wind turbines.

# KEY MITIGATION

- Noise will attenuate to 45 db by 500 m, which will not disturb animals (see Noise to right).
- The wind towers will be shut down when groups of caribou approach during sensitive seasons.
- Behavioural and avoidance monitoring will determine if caribou are bothered by the wind tower and allow for adaptive management.
- The wind towers will be shut down during peak bird migration, at night during fog – research worldwide has shown that this combination of conditions can be dangerous for birds around wind towers.
- Monitoring will look for bird mortalities due to the wind towers and allow for adaptive management.

# BENEFITS



Reduction of up to  
**~700 fuel  
truck trips  
per year**

Reduction of  
**~15% sealifts  
per year**

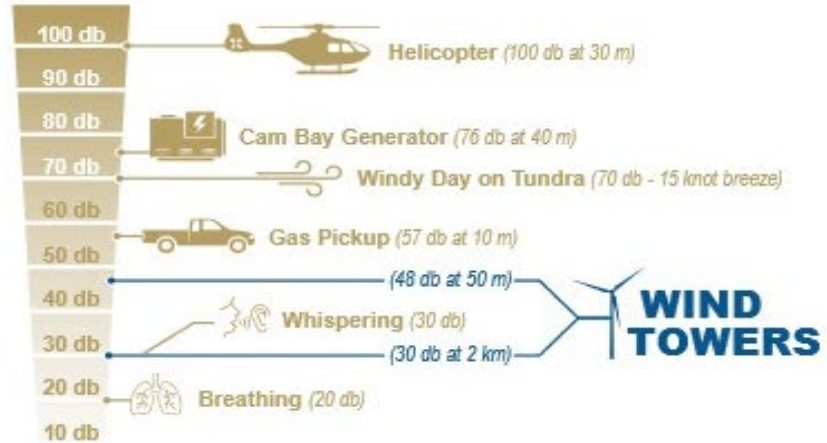


**~50%  
less fuel per year**

**~50%  
less greenhouse  
gas emissions**

# NOISE

Sabina conducted noise modeling to determine how loud the wind towers will be at various distances. Noise is measured in decibels (db) which is a logarithmic scale. That means the noise you hear doubles with every 7 db.



At 500 m from the wind towers, the noise will be similar to a person talking quietly and barely above the noise of a typical day on the tundra.

# HEIGHT COMPARISON



**Cambridge Bay LORAN Tower**  
189 m tall

**Wind Turbines**  
111 m tall

**Centre Square - Northern Heights**  
(Tallest building in Yellowknife)  
60 m tall

The taller that wind towers are, the more efficient they can be. Being tall avoids the boundary layer of slow-moving air near the surface and allows for large, slower-moving blades.