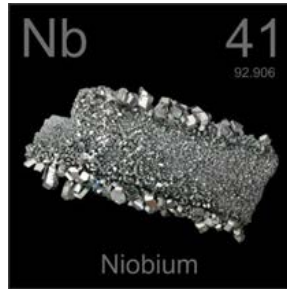


OVERVIEW

- Vision of becoming a **niobium producer** that applies leading **ESG** practices
- Management team with **extensive experience** in the niobium space and in Ontario mine permitting & IBA
- Advancing the **development** of the world-class James Bay Niobium project



CORPORATE STRUCTURE

Share Price	\$0.97
Shares Outstanding	70 M
Fully Diluted	83 M
Market Cap	\$68 M
Cash on Hand	\$13 M
52-Week Range	\$0.20 - \$1.19

As of March 2021

MAJOR SHAREHOLDERS

Osisko Development	15%
Undisclosed Mining Co.	10%
Caisse Dépôt Placement	10%
Management & Directors	7%

WHAT IS NIOBIUM?

- **Niobium** is a naturally occurring refractory transition metal with impressive characteristics
- Considered a **Critical Metal** in the USA, the EU and many other countries
- Niobium make steel stronger, lighter and corrosion resistant
 - **Dematerialisation** of construction
 - Reduction of **GHG** emissions in mobility sector



Wind Mills



Structures & Bridges

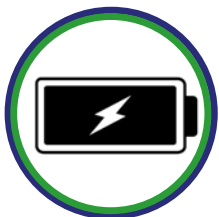


Automotive



Stainless Steel

NIOBIUM → BATTERY METAL



- Toshiba Next-generation SCiB™ battery anode made of Niobium Titanium Oxide (NTO) will **revolutionize** the EV market
 - Increased energy density of batteries, giving more power and increased range, and improves performance at low temperatures
 - Increased rate at which batteries charge and discharge
 - Increased stability of batteries to withstand more charging cycles

JAMES BAY NIOBIUM PROJECT

- Located 42 km south of Moosonee in the James Bay Lowlands, Ontario, Canada
 - Near high quality **infrastructure**
- Protection agreement** - Moose Cree First Nation
- 2020 Mineral Resource Estimate → NSR \$170/t
 Ind: 29.7 Mt at 0.53% Nb₂O₅ for 158 Mkg
 Inf: 33.8 Mt at 0.52% Nb₂O₅ for 177 Mkg
- 2020 PEA highlights **robust economics**

Scenario	OP	OP+UG	UG
Mine Life (Years)	30	23	23
After-Tax NPV _{8%} (\$C M)	1,008	856	733
Payback Period (Years)	3.2	3.1	4.3
Initial Capex (\$C M)	510	482	579



JAMES BAY - 2021 PROGRAM

12 000 m infill drilling program	Metallurgical test work	Environmental baseline	Initiate pre-feasibility study	Development protocol/JV MCFN
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CREVIER PROJECT (Niobium & Tantalum)

- Located 50 km north of Girardville in the Lac Saint-Jean Region, Quebec, Canada
 - Near producing **niobium mine**
- 2010 Mineral Resource Estimate
 Mea. & ind.: 25.4 Mt at 0.20% Nb₂O₅
 234 ppm Ta₂O₅

 Inf: 15.4 Mt at 0.17% Nb₂O₅
 252 ppm Ta₂O₅
- 2010 PEA demonstrates a project capable of

CREVIER - 2021 PROGRAM

Metallurgical test work



FORWARD-LOOKING STATEMENTS

Some of the statements in this fact sheet reflect estimates by Niobay Metals with regard to its future performance and are simply forecasts of its future activities, performance and future results. All statements other than statements of fact are forward looking as they are subject to known and unknown uncertainties and other factors that could have an impact on the activities and results anticipated in this fact sheet. These risk factors are discussed in greater detail in Niobay Metals' most recent Annual Information Form filed on SEDAR.