

Outline

The Energy and Minerals sector is under a great deal of change and there are many exciting activities happening across the Department of Industry, Tourism and Investment at GNWT.

- The development of regulations to support the Coming in Force of a New Minerals Resource Act
- The development of an NWT built Critical Minerals Action Plan
- The planned modernization of the Mineral Development Strategy
- Ensuring Northerners benefit from remediation economic opportunities

- Industry and Indigenous supports available from our Client Services and Community Relations team
- Highlights on projects and programs from the NWT Geological Survey and Mineral and Petroleum Resources Division

Transition to the Mineral Resources Act (MRA)

- The MRA was passed in 2019: 1st Made-in-NWT Mining Legislation collaboratively developed with Indigenous Governments and balances the unique NWT interests between public and Indigenous Governments
- Regulations needed to bring Act into force and will address administration of tenure, benefits geoscience data, transparency, legacy issues, compliance and enforcement
- GNWT is currently working on a two-phase rollout of regulations changes: with a proposed initial implementation of April 2025 and updated additional tools thereafter.

Long Term Benefits of the MRA

- Greater confidence and transparency in mineral administration (additional governance, reporting, decision review board and data and info in the public registry);
- Greater and more efficient access to geoscience information collected;

- Improved relationships between Industry and Indigenous Governments (with new training and engagement opportunities);
- Clarity in expectations for benefits (e.g. benefit agreements, Socio-economic agreements);

Long Term Benefits of the MRA

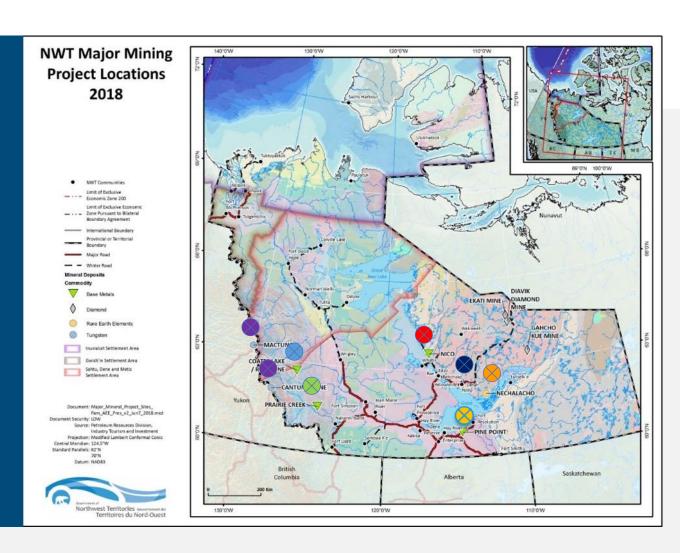
- More flexible tools for Industry to obtain and maintain mineral tenure (e.g. information technology advancement for maintaining tenure online and moving to online map staking);
- More flexible and efficient tools for Indigenous Governments to promote development where favorable and temporarily restrict exploration in areas of significance (e.g. zones and Temporary Restricted Areas); and,
- Increased knowledge sharing of exploration and potential mining opportunities (through notifications, additional engagement opportunities and Evidence of Deposit Technical report).

Critical Minerals in Demand



- Critical Mineral development crucial for future resource industry in the NWT.
- Opportunity for NWT to contribute to the worldwide supply chain of in-demand minerals.
- NWT has the resources needed to gain market share and attract investment.
- The NWT currently has several advanced critical mineral projects including:
 - NICO, Nechalacho, Pine Point, Cantung,
 Mactung, Prairie Creek, etc

NWT Critical Minerals Projects Map



- Nico Co-Bi-Cu-Au
- Pine Point Pb-Zn-Ag
- Prairie Creek Pb-Zn-Ag
- Mactung- Cantung (tungsten)
- Coates Lake (copper)
- Yellowknife Pegmatite Province (lithium)
- Nechalacho (rare earth metals, lithium, beryllium, thorium etc)

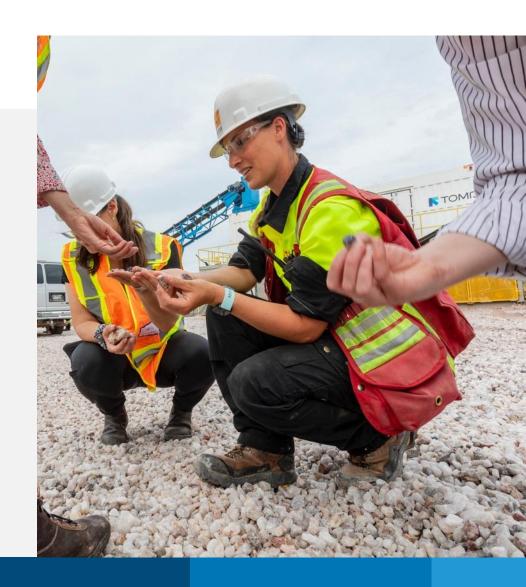
NWT Critical Minerals Plan "Critical Minerals in the NWT"



- ITI internal draft outline developed in early 2021
- Critical Minerals workshop November 2021
 - What We Heard Report
 - Government, industry, Indigenous, and public engagement
- Identifies actions and outputs which will be delivered through existing programs and services under four pillars
- Will inform further development of a refreshed NWT Mineral Development Strategy

"Critical Minerals in the NWT" Pillars

- Awareness and Engagement on Critical Minerals in the NWT
 - Increase the awareness of CM opportunities in the NWT to our residents
- Marketing and Promoting the NWT's Critical Minerals Potential
 - Highlight the NWT's potential through enhanced marking and promotion activities



"Critical Minerals in the NWT" Pillars

- 3. NWT Critical Minerals What Are They and Where Are They?
 - Enhance the availability of data and geological information
- 4. Critical Mineral Partnerships and Collaboration
 - Collaborate with Indigenous stakeholders and governments, Canada, and industry to ensure a strong future of critical mineral development in the NWT



Mineral Development Strategy Renewal

- The MDS is one of the GNWT's key policy instruments in improving investor and public confidence in the mineral resource sector.
- The MDS is not a single program, but a strategy framework that has several programs nested within it.
- Looking ahead, ITI will work with partners to renew the strategy to reflect the changing environment of the Mineral Resource Sector.



Mineral Development Strategy Renewal

Original MDS Pillars:

- Pillar 1: Creating a Competitive Edge
- Pillar 2: Establishing an Improved Regulatory Environment
- Pillar 3: Enhancing Indigenous Engagement and Community Capacity Building
- Pillar 4: Promoting Sustainability
- Pillar 5: Enhancing Workforce Development and Public Awareness



Mineral Development Strategy Renewal

THE MDS FOLLOWS SIX GUIDING PRINCIPLES:

- 1. Mineral development should provide a legacy of positive benefits for NWT residents.
- 2. The environment must be considered and respected.
- 3. Clear, transparent and certain regulation guide responsible, sustainable mineral development.
- 4. The rights and traditions of Aboriginal people should be respected.
- 5. Cooperation and partnerships are essential to achieve sustainable mineral development.
- 6. The NWT is a destination of choice for responsible and sustainable mineral development, exploration and development.



Mineral Development Strategy Refresh

Planned work to include:

- Focused engagement with Indigenous Governments, Industry Associations,
 Non-Government Organizations and NWT residents
- Technical and policy research will start in 2023-24 and development and engagement will occur in 2024-25

Completereview to refresh and refocus the MDS for the next 5 years

Review of recommendations from MDS partners on opportunities to improve implementation Ensure the goals and actions off the MDS reflect the current state of the mining industry and Post Devolution NWT Context

Remediation Economic Snapshot

- Strategic Partnership Initiative (SPI) application approved in June 2022.
- SPI funding is guaranteed for 3 years, and could be extended to 5 years.
- SPI programming under development
 - Aurora College developing course material for remediation programming
 - Catalyste+ running pilot program for Indigenous business capacity building
- Remediation Coordination Committee (RCC) formed in 2023 as joint federal and territorial oversight group to manage communications on SPI and other NWT remediation economic communications.

Remediation Next Steps

- Ongoing SPI programming implementation for 3-5 years (including 2023).
- RCC to develop a roadmap to inform longer term remediation economic opportunities for Northerners
 - GNWT roles and responsibilities for ECE, ECC, and ITI
- Ongoing collaboration with Indigenous Governments and Development Corporations wishing to participate in remediation projects
- Update 'remediation economy' estimate/forecast. GNWT to maintain updated socioeconomic estimates, refining existing estimates and adding new projects.

Resource Pathfinding

 The GNWT ITI Client Service and Community Relations unit (CSCR) provides pathfinding services which enhance communications and understanding between industry proponents, communities, regulators, governments, Indigenous governments, and Indigenous organizations.



ITI's Indigenous Capacity Building Funding Program

This application-based funding program enables NWT Indigenous governments and organizations to:

- actively participate in and benefit from all aspects of the NWT resource sector;
- promote NWT Regional resource potential to attract industry investment;
- increase capacity to plan, pursue, and participate in economic opportunities in the NWT resource sector; and
- benefit from opportunities in all stages of the resource exploration and development activities in the NWT.

NWT Geological Survey Highlights

Support for NWT Mineral Exploration



The Mining Incentive Program (MIP) provides funding to prospectors and exploration companies who propose new exploration projects or are already carrying out NWT mineral exploration work. The total MIP budget is \$1.5 million, and all levels of exploration, from grassroots to advanced, are eligible for funding.



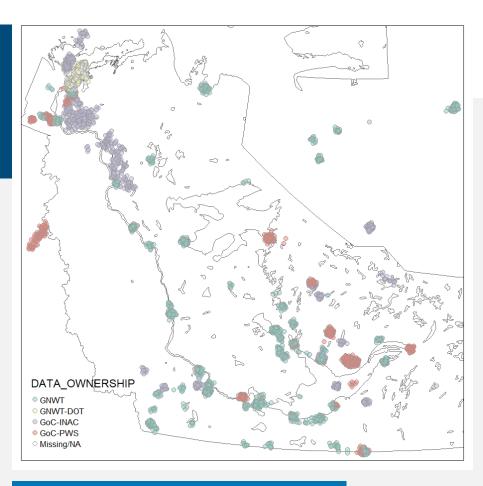
NWT Geological Survey Highlights

Permafrost Thaw



Research Collaborators





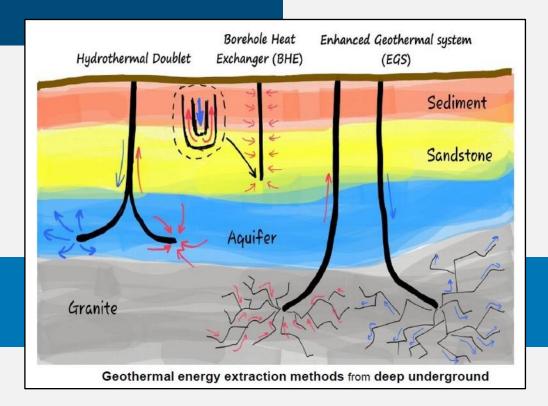
Permafrost Database

NWT Geological Survey Highlights

 NWT has high geothermal energy potential in Southern NWT and Sahtu regions

Hypothetical geothermal resources and extraction methods

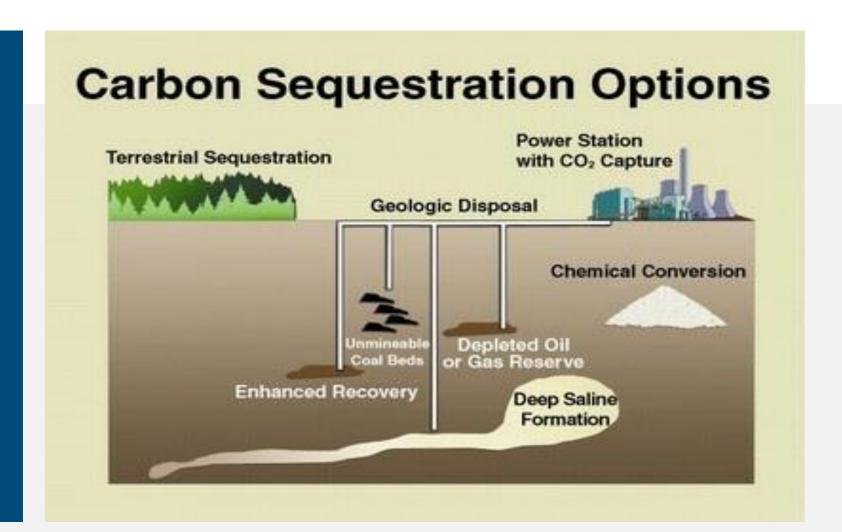
Website: nwtgeoscience.ca



Carbon Sequestration Research

- Research began in early 2023 and is projected to continue until 2025;
- Research focus is twofold: 1) to identify suitable geological formations to safely secure carbon dioxide produced from human processes and 2) to model the injection of CO2 into identified formations by a qualified petroleum reservoir engineer;
- If successful, CCS in the NWT could support economic activity and investment in the petroleum sector, hydrogen sector, and in the NWT's efforts to reduce Greenhouse Gas emissions.

Exploring
Sustainable
Development
Options



Addressing the Challenge

Carbon Sequestration Potential

- The study is to cover the following regions:
 - Beaufort Delta
 - Central Mackenzie Valley
 - Southern NWT
- Work on the project started in September 2022
 - The project's phase one is by March 2024
 - The project's final report is targeted for March
 2025

