

What Greenland Reveals About the Next Phase of Critical-Minerals Strategy

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As demand for critical minerals such as palladium continues to rise across industrial sectors, their extraction increasingly depends on operational resilience, geological accessibility, and practical mining strategies.

As global mineral sourcing grows more complex, factors such as geography, logistics, infrastructure, and project timelines play an increasingly important role in determining whether deposits can be accessed and developed efficiently, particularly for industries that rely heavily on mineral inputs.

Greenland as a Case Study in Frontier Industrial Development

One of the more noteworthy case studies on industrial development to emerge in the western hemisphere currently comes from Greenland, specifically in the southeast portion of the island where the Skaergaard Intrusion is located. This geological formation has been studied since its discovery in 1935 and has had articles published on it from Cambridge, Caltech, and the University of Oregon, thereby marking the site as one of interest for nearly a century.

The economic deposit was confirmed in 1986 and has since undergone extensive geological evaluation. Following more than 45,000 meters of systematic diamond drilling and decades of exploration work, the site currently carries an NI 43-101 resource estimate of 25.4 million ounces of palladium equivalent and 23.5 million ounces of gold equivalent. These figures illustrate the scale of the mineralization present at the intrusion and its potential significance as a large palladium-bearing deposit.

The scale of exploration work carried out over several decades highlights the long-term geological interest in the site and the cumulative role of earlier research in building a clearer understanding of the deposit.

The Importance of Location and Infrastructure

While the Skaergaard Intrusion's quantity of resources makes it an appealing business opportunity in theory, its resource size would amount to little more than fulfilling geological curiosity without a clear means of accessing it for extraction.

As it so happens, the deposit is considered to be exceptionally accessible, especially when compared to other Arctic resources that tend to make extraction economics impractical due to their position relative to the inaccessible interior terrain around them.

In terms of geography, the intrusion's resources are predominantly coastal, thereby circumventing the complications that can come with trying to reach interior sites. Concerning infrastructure, it has a licensed on-site gravel airstrip at the Sødalen camp, helicopter-supported logistics, and seasonal sea access via Mikis Fjord.

Additionally, three Mineral Exploration Licences cover 877 square kilometers. Greenland Mines Ltd., which manages the project area, is preparing for further exploration, including a planned 10,000-meter drilling program intended to expand geological understanding of the deposit and further delineate mineralized zones.

The deposit operates within Greenland's modern mining framework established in 2009. The region's regulatory structure, combined with its coastal location roughly 1,600 kilometers from the northeastern United States, contributes to logistical considerations relevant to exploration and development activities.

It should be noted that Skaergaard's operational viability doesn't come from any single support structure, but rather their cumulative effects. The deposit's value is accessible and therefore real, thus marking the importance of project readiness as a whole; if any of the aforementioned geological, infrastructural, or regulatory pillars holding the operation up were absent, its practicality would be a fraction of what it is now.

Why Raw Materials Are No Longer a Background Issue

Most of the entrepreneurial attention on Greenland's critical minerals has focused on rare earth elements such as dysprosium, terbium, and yttrium. These are some of the minerals that go into EV motors, wind turbines, defense electronics, and other technologies in the mobility and manufacturing industries, and while they certainly warrant some attention, their dependence on the rate at which the energy transition takes place limits their demand.

Palladium remains widely used in hydrogen fuel cells, automotive catalytic systems, and other industrial technologies. Because of these applications, deposits such as those found at the Skaergaard Intrusion are studied closely for their geological potential to support future industrial uses of the metal.

In this context, raw materials such as palladium play a direct role in enabling several industrial technologies. Their extraction, therefore, depends on the technical readiness of deposits and the long-term development work required to bring complex mineral systems into production.

Recognizing the Value of Advanced-Stage Assets

Advanced-stage assets like Skaergaard that have been under development for decades often stand to provide significant benefits despite their extended maturation times. In fact, resource projects like those located across Greenland take the time that they do to come to fruition because processes like risk reduction and compliance tend to achieve better results when given generous timelines to do so.

Permitting, environmental review, and technical development timelines often extend over many years in mineral projects. In the case of Skaergaard, this extended timeframe reflects the complexity of geological assessment, environmental compliance, and infrastructure planning required for Arctic resource development.

A Lesson in Managing Supply Chain Risk

Today, Greenland's ongoing operations in the Skaergaard Intrusion and elsewhere serve as a solid case study of the benefits of patience and preparation. The value thought to be stored in these locations took several decades to discover and identify, and all of that took place before tens of millions of dollars were spent on exploration and de-risking over the course of many more years.

A number of additional preparations had to be made to ensure it would be economically viable to even access the site's resources. Determining the practicality of its location, creating infrastructure to support consistent accessibility,

adhering to regulations, and getting ground forces ready for expansion: these were the steps it took to turn Skaergaard from a geological anomaly into an economic asset.

Entrepreneurs whose operations rely on critical minerals like those produced in Greenland need to keep these processes in mind when making long-term plans. Although there appears to be some distance between mining and manufacturing in the supply chain, in truth, these practices are closely bound when working with limited materials in resource-intensive industries.

It bears mentioning that even the selection of materials itself requires serious consideration when examining their supply and demand. If demand for one material rises and falls with every announcement for a new piece of climate tech while another remains consistent irrespective of most external influences, it's worth looking into why that is and what that could mean for one's own operations.

Critical mineral supply systems continue to evolve as industries adapt to changing material requirements. As a result, attention is increasingly focused on the earliest stages of the supply chain, exploration, geological evaluation, and extraction logistics, where decisions about resource development are first made.