

## Fact Sheet

### Company Profile

#### Board of Directors

##### Chairman

*Mr Michael Hutchinson*

##### Managing Director

*Mr Roderick McIlree*

##### Executive Director

*Mr Simon Cato*

##### Non-Executive Director

*Mr Anthony Ho*

##### Non-Executive Director

*Mr Jeremy Wybrow*

ASX - Listed: GGG

#### Capital Structure

Shares 410 M

#### Share Price Sept 2011

A\$0.6

52 week range A\$0.30-1.40

Market Cap A\$250

Cash A\$18 M

A\$15 equity facility - Yorkville

#### Northern Ilimaussaq Ownership

GMEL owns 61% of the project. An agreement has now been finalised to acquire outstanding 39% of project for \$39M (AUD), and 7M shares in GMEL. This represents a discount of approximately 30% to the original joint venture terms, and is a value accretive acquisition.

Greenland Minerals and Energy Ltd ("GMEL", ticker - ASX:GGG) is a mineral exploration and development company with a focus on Greenland. The Company's flagship project is the **Kvanefjeld** rare earth elements (REEs), uranium, zinc project located near the town of Narsaq in south Greenland. Kvanefjeld is the first multi-element resource defined within the Company's broader project area over the northern Ilimaussaq complex. With a resource that contains **6.6 M tones of rare earth oxide (REO), 350 Mlbs U<sub>3</sub>O<sub>8</sub>, and 3B lbs Zn**, Kvanefjeld is already recognized as one of the largest deposits of its kind. Regional exploration has now focused on new multi-element deposits that have the potential to substantially increase the resource inventory further.

### Kvanefjeld Project: Key points

**Resources:** *World's largest JORC-compliant resource of REEs, in uranium-rich multi-element deposit that also includes zinc. Recent discovery of substantial new ore zones*

**Location:** *Orebody outcrops at surface, located near tide-water, deep water fjords open all year, potential for hydro-power, international airport nearby*

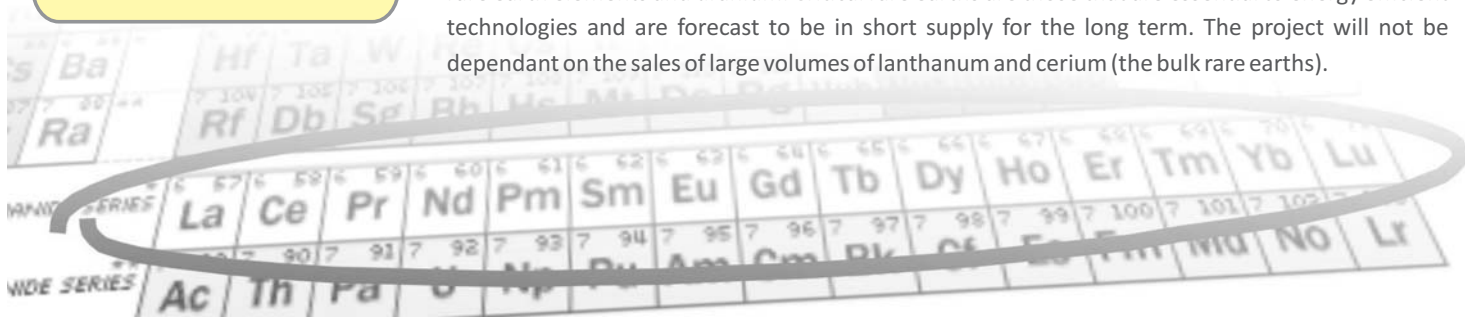
**Prefeasibility:** *base-case process flow sheet established to generate both a RE and uranium product, diversified revenue streams, strong financial metrics*

**Beneficiation:** *Ability to effectively transform Kvanefjeld into high-grade, low mass feed. Big improvements to project efficiency and economics to result. Game changing event in rare earth and uranium sectors.*

**Government support:** *Company permitted to fully evaluate the Kvanefjeld project inclusive of uranium*

**Time line:** *Commence definitive feasibility in 2012, first production 2016*

In 2011, feasibility studies continue on Kvanefjeld. An interim pre-feasibility report, available on the Company's website ([www.ggg.gl](http://www.ggg.gl)) outlines a base-case process flow sheet for a multi-element mining operation with technical and economic parameters. The report highlights the clear potential for Kvanefjeld to become a large-scale cost-competitive producer of rare earths and uranium. Significantly, recent breakthroughs to effectively beneficiate the ore are now leading to an enhanced flow-sheet that will strengthen Kvanefjeld's position as one of the worlds most important emerging specialty metals projects. GMEL is looking to underpin Kvanefjelds economics on critical rare earth elements and uranium. Critical rare earths are those that are essential to energy efficient technologies and are forecast to be in short supply for the long term. The project will not be dependant on the sales of large volumes of lanthanum and cerium (the bulk rare earths).



## Greenland

Greenland is an autonomous constituent country within the Kingdom of Denmark, and is governed by the Greenland Self-Rule government. It maintains a long-lived democracy and tax system, and is open to foreign investment. After taking on self-rule and increased independence from Denmark in June, 2009, Greenland has taken complete control of its mineral and hydrocarbon rights, and introduced a new Mining Act. Increased independence from Denmark relies on Greenland's economic viability, and the government recognizes that developing a strong minerals industry is critical.

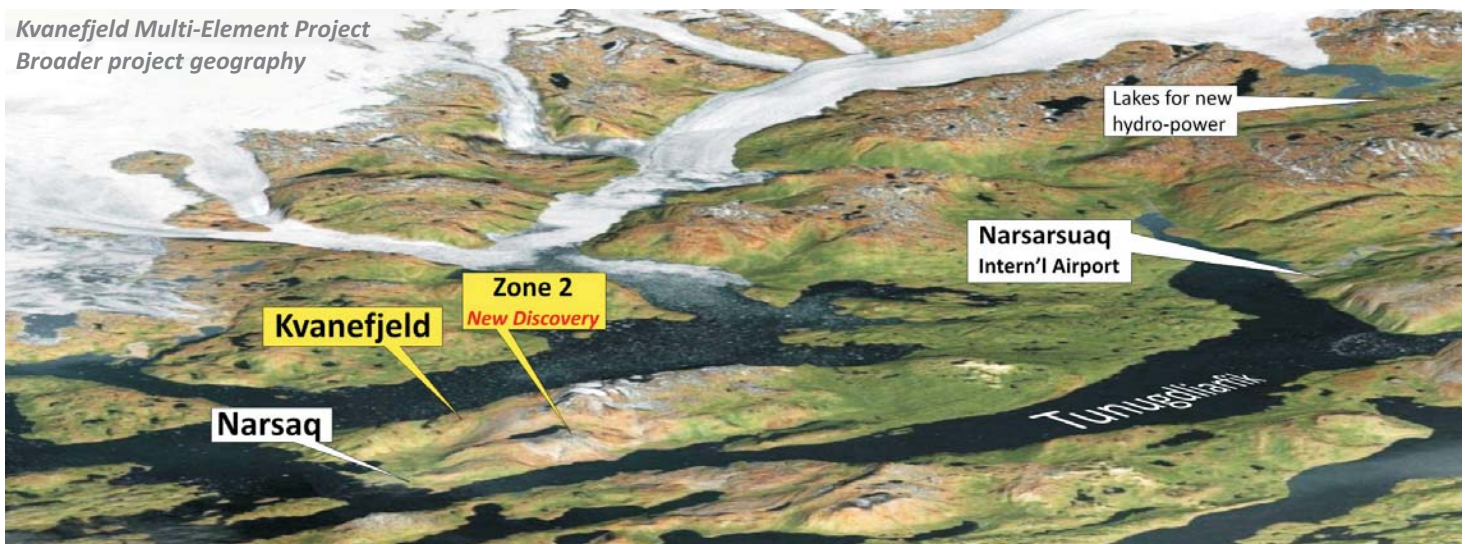
The Greenland Geological Survey (GEUS) has been active for years, producing high quality maps, large geochemical databases, mineral occurrence databases, and airborne geophysical surveys. The Bureau of Minerals and Petroleum (BMP) promotes Greenland as an attractive destination for mineral explorers through international trade shows such as the PDAC (Toronto) and the Cordilleran RoundUp (Vancouver).



## Rare Earth Elements - What are they all about?

Rare earth elements are a group 17 metals that were, until recently, considered relatively obscure. However, suddenly REEs are garnering growing international attention. The reason starts with the metals themselves; they have unique chemical and physical properties that make them essential in many technological applications. Some applications include environmentally-beneficial technologies such as wind turbines, hybrid and electric cars, rechargeable battery systems, and energy efficient lighting. The REEs are also essential to the broader computer, electronic, automotive and defense industries, and if such industries represent an important part of your economy, then you need access to REEs. However, China controls more than ninety five percent of global REE supply and right when the demand for these metals is rapidly increasing, China is restricting supply. Many market commentators interpret China's position as one of firming up its own strategic reserves of REEs to ensure it can satisfy its burgeoning domestic demand. The rest of the world has simply been caught short, and now needs new stable, long term suppliers of REEs. Kvanefjeld has the potential to supply >20% of global REE demand, thereby restoring balance to global REE supply.

### Kvanefjeld Multi-Element Project Broader project geography



View over the project area. Multi-element resources are defined at Kvanefjeld, and Zone 2 is the next focal point for resource development. Resources are located close to tide-water, with fjords open to the north Atlantic shipping lanes. Narsarsuaq International Airport is located 45 km east of Narsaq, where the Company's operations are based.

### Kvanefjeld Project: Resource Statement, March 2011

At U <sub>3</sub> O <sub>8</sub> % cutoff grades <sup>1</sup>	Tonnes (million)	U <sub>3</sub> O <sub>8</sub> % <sup>2</sup>	U <sub>3</sub> O <sub>8</sub> lb	TREO% <sup>3</sup>	TREO Mt	Resource category
0.015	437	0.027	263	1.06	4.77	Indicated
	182	0.022	86	1.12	1.78	Inferred
	<b>619</b>	<b>0.026</b>	<b>350</b>	<b>1.07</b>	<b>6.55</b>	<b>TOTAL</b>
0.020	291	0.033	208	1.13	3.45	Indicated
	79	0.027	48	1.21	0.88	Inferred
	<b>370</b>	<b>0.031</b>	<b>256</b>	<b>1.16</b>	<b>4.32</b>	<b>TOTAL</b>
0.030	177	0.037	146	1.20	2.30	Indicated
	24	0.036	19	1.31	0.31	Inferred
	<b>200</b>	<b>0.037</b>	<b>164</b>	<b>1.3</b>	<b>2.61</b>	<b>TOTAL</b>

1. There is greater coverage of assays for uranium than other elements owing to historic spectral assays. U<sub>3</sub>O<sub>8</sub> has therefore been used to define the cutoff grades to maximise the confidence in the resource calculations.

2. Additional decimal places do not imply an added level of precision.

3. Total Rare Earth Oxide (TREO) refers to the rare earth elements in the lanthanide series plus yttrium. TREO generally contains 12-13% HREEs + Y.

Note: Figures quoted may not sum due to rounding.



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