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Annual General Meeting May, 2014

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JORC Code Compliance – Consent of Competent Persons

The information in this report that relates to exploration results, geological interpretations, appropriateness of cut-off grades, and reasonable expectation of potential viability of quoted rare earth element, uranium, and zinc resources is based on information compiled by Jeremy Whybrow. Mr Whybrow is a director of the Company and a Member of the Australasian Institute of Mining and Metallurgy (AusIMM). Mr. Whybrow has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined by the 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Whybrow consents to the reporting of this information in the form and context in which it appears.

The geological model and geostatistical estimation for the Kvanefjeld deposit were prepared by Robin Simpson of SRK Consulting. Mr. Simpson is a Member of the Australian Institute of Geoscientists (AIG), and has sufficient experience relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined by the 2004 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves". Mr. Simpson consents to the reporting of information relating to the geological model and geostatistical estimation in the form and context in which it appears.

Note: This information was prepared and first disclosed under the JORC Code 2004. It has not been updated since to comply with the JORC Code 2012 on the basis that the information has not materially changed since it was last reported.

Increasing International Focus on Arctic Resources

Greenland – the gateway to the Arctic

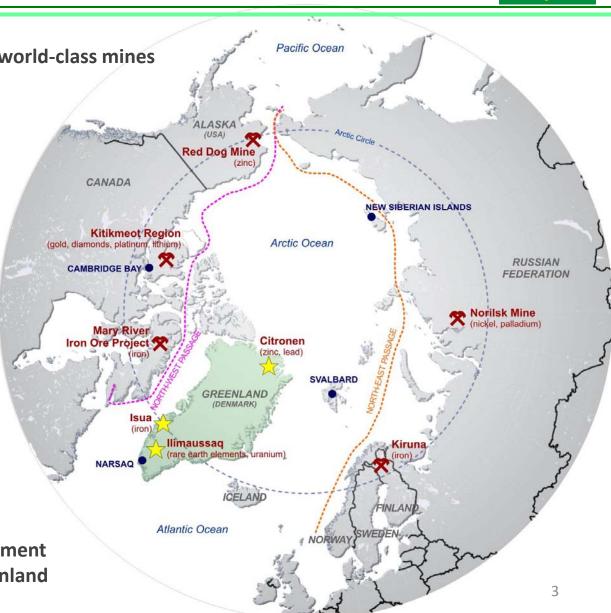


The Arctic region is host to numerous world-class mines

Greenland is increasingly the centre point of Arctic resource focus due to:

- Political stability with increasing independence
- Political push to move toward a natural resource-based economy
- Numerous mineral resource projects awaiting development
- Mining licenses being issued
- Opening of Arctic shipping lanes providing access to Asia-Pacific

A growing number of countries are looking to participate in the establishment of a new generation of mines in Greenland



Greenland – An Important New Minerals Region

Pro-mining government making the big decisions and moving forward



- In October, 2013 the Greenland Government repealed a long-standing zero-tolerance policy toward uranium
- Places Greenland on the path to uranium-producer status, opens up vast rare earth resources to exploitation
- As announced in January, 2014, Greenland and Denmark are now working to finalise a cooperation agreement on responsibilities associated with U production within the year
- Greenland aiming to be positioned to issue exploitation licenses for projects involving U in early 2016
- Greenland's Kvanefjeld REE-U project now the focus of regulatory bodies, as the development timeline firms
- Timing is aligned with outlook of strengthening demand and improving markets for uranium and critical REEs

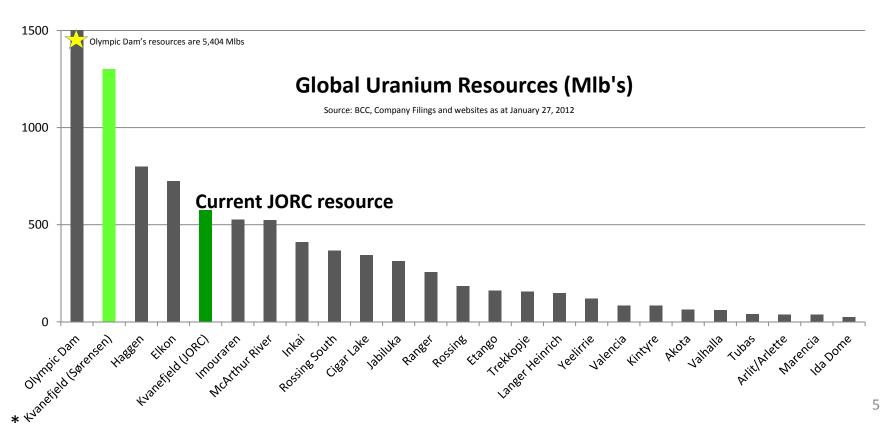


Greenland – An Important New Minerals Region

Why consider permitting the commercial exploitation of radioactive minerals?



- Greenland has prolific polymetallic resources of Uranium and Rare Earth Elements
- Kvanefjeld (Ilimaussaq) Global (JORC) uranium resource of 575 Mlbs U₃O₈ @150ppm U₃O₈ cut off
- > Coincident REE resources of **10.8 Mt** *one of the world's largest with huge upside*
- > Nuclear Power is increasingly recognised as an all-important base load power source U & in future Th
- > <20% of prospective ground in northern Ilimaussaq complex evaluated



Greenland Minerals and Energy Ltd

ASX-listed, Greenland-focussed mineral explorer and developer



Key Asset: Kvanefjeld multi-element project (REEs, uranium, zinc):

- One of the world's most strategically important mineral projects 100% owned by GMEL
- Project underpinned by one of world's largest REE-uranium resources with major upside
- Highly accessible bulk ore bodies favourably located in southern Greenland near towns, harbours and airport
- A non-refractory ore type conducive to simple, cost-effective processing with low-technical risk
- 2013 Feasibility level 'Mine and Concentrator Study' demonstrates long-life, cost-competitive production of rare earths and uranium; the start point of a mining project that will continue to evolve for decades
- Alignment with tier-one rare earth partner in China's NFC MoU signed March, 2014



Drilling at the 242Mt Sørensen Deposit, Kvanefjeld Project, South Greenland

Greenland Minerals and Energy Ltd



ASX-Listed, Greenland-Focussed Mineral Explorer and Developer



Board	
Non-Executive Chairman	Michael Hutchinson
Managing Director	Roderick McIllree
Executive Director	Dr John Mair
Non-Executive Director	Simon Cato
Non-Executive Director	Jeremy Whybrow
Non-Executive Director	Tony Ho

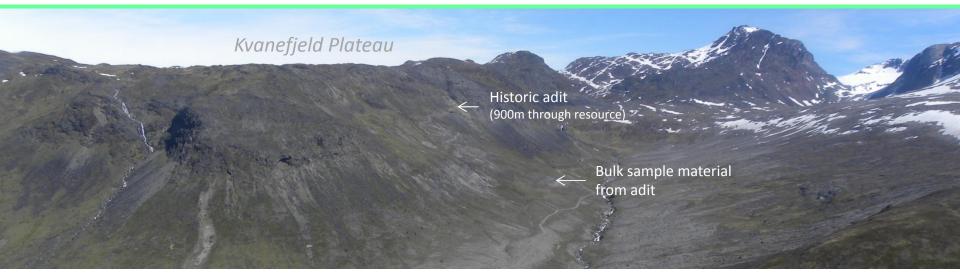
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Undiluted enterprise value	A\$90M
Net Cash (31/3/14)	A\$5.1M
Undiluted market capitalization	A\$75M
52 week range	A \$0.13-\$0.46
Share price (02/09/2013)	A\$0.13
Options outstanding	38M*
Shares outstanding	576.5M
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5m options - \$0.75 exp Oct 2014, 25.8m quoted options ex \$0.60

Kvanefjeld – A World-Class Project 60 Years in the Making

Built on a comprehensive technical foundation



Subject of 20+ years of state-sponsored R&D (1960's – 1983)

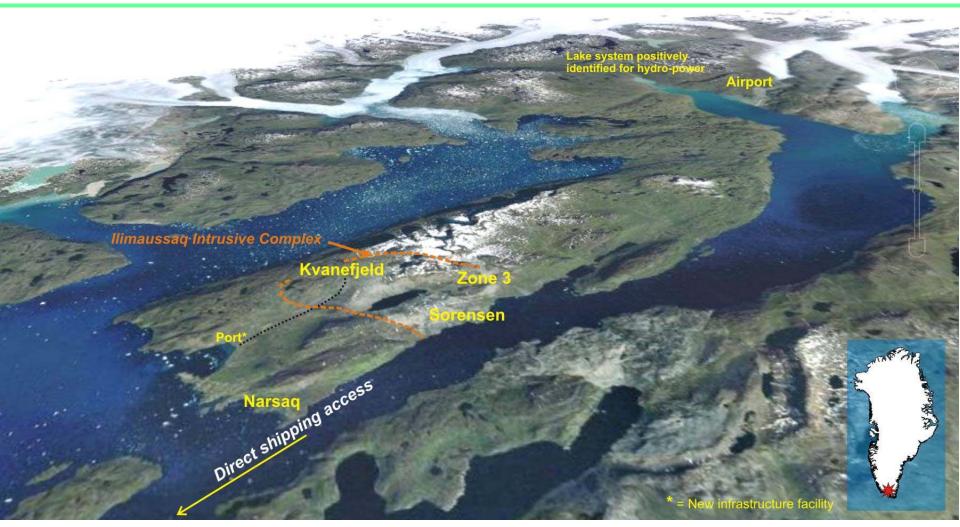
•Uranium focus, >\$50 M (todays dollars) invested historically – advanced process development

Seven years of R&D conducted by GMEL (2007 – present)

- •Multi-element focus REEs, uranium, zinc +, >\$80 M (AUD) invested
- •PFS complete 2012, concentrator circuit pilot-plant successfully operated 2012,
- Refinery flow sheet further developed 2013, rigorously tested to pre pilot-plant stage
- Extensive environmental and social baseline studies undertaken over several years
- •Widely recognized as a potential long-life, cost-competitive specialty metals project



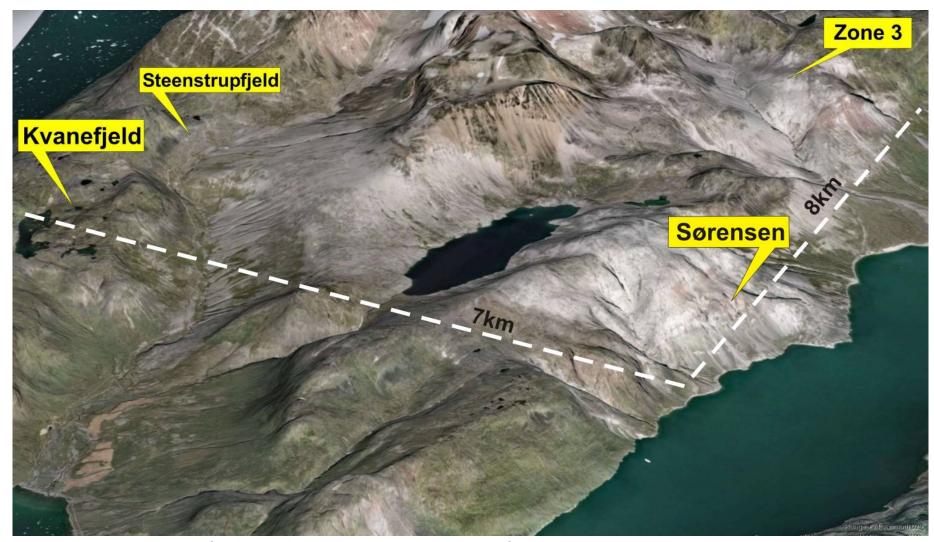




Overview of the Erik Aappalaartup Nunaa Peninsula (or Narsaq Peninsula), south Greenland, view is toward the north The Kvanefjeld project is easily accessed by ship from the North Atlantic, year round The distance from Narsaq town to Narsarsuaq Airport is 45 km

Ilimaussaq Complex – A Unique Geological Phenomenon



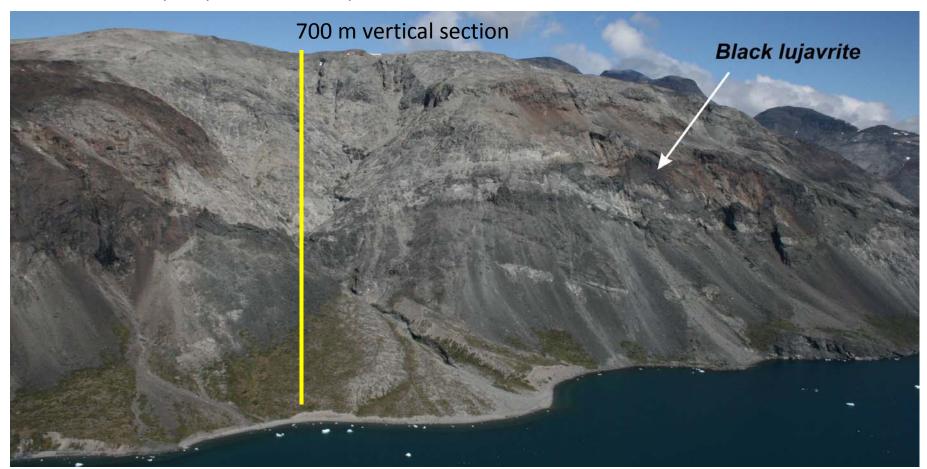


To-date, exploration has focussed on the outcropping zones of the lujavrite panel, which is continuous throughout the northern Ilimaussaq Complex under varying depths of overlying naujaite.

Ilimaussaq Complex – A Unique Geological Phenomenon



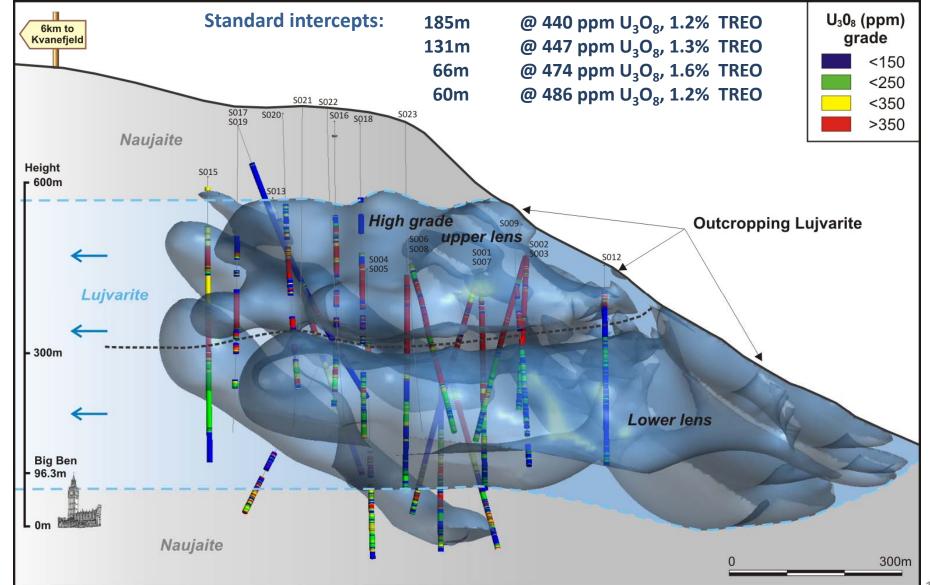
Northern Ilimaussaq Complex – Sørensen Deposit – 242 Mt



Lujavrite forms as internal panel – slow crystallisation of U and rare-element rich magma resulted in the upper sections being strongly enriched, forming a 'mega' ore seam extending over **50 square km's**. Locally true thicknesses at >150 ppm U_3O_8 cut-off **exceed 200 m**







Northern Ilimaussaq Complex

An extraordinary resource base, with huge upside



- •Several large-scale, bulk-tonnage resources defined: Kvanefjeld, Sørensen and Zone 3.
- •The deposits represent the outcropping expressions of a mineralised system that geological evidence indicates is interconnected at depth
- •Mineralisation is hosted by lujavrite, with the mineral **steenstrupine** the dominant host to both uranium and REEs.
- •Low mining costs due to outcropping, bulk tonnage deposits, highest grades near surface (>400ppm U₃O₈, >1.4% TREO)

Overview – Northern Ilimaussaq Complex Steenstrupfjeld Kvanefjeld Sørensen 7km

Project overall resource inventory:

(JORC-code 2004 compliant, Prepared by SRK Consulting)

956 Mt containing **575 Mlbs U₃O₈**, 10.33 Mt TREO, 2.25 Mt zinc

TREO includes: 0.37 Mt heavy REO, 0.84 Mt yttrium oxide

Kvanefjeld Deposit: Global resource: 619 Mt @ 257 ppm U₃O₈, 1.06% TREO, 0.22% zinc

Sørensen Deposit: Global resource: 242 Mt @ 304 ppm U₃O₈, 1.1% TREO, 0.26% zinc

Zone 3 Deposit: Global resource: 95 Mt @ 300 ppm U₃O₈ 1.16% TREO





- Kvanefjeld ores contain unique rare earth-uranium bearing minerals (e.g. steenstrupine); non-refractory compared
 to common RE-ore types, much higher-grade than other non-refractory ores such as eudialyte
- Minerals are highly advantageous as they can be effectively beneficiated, then leached under atmospheric
 conditions, with no high-temperature acid bake or caustic crack required. This forms the basis of a simple processing
 route that makes for cost-effective, highly-scalable production

Step 1 - Mineral Beneficiation - Flotation

- Main ore minerals can be effectively concentrated using flotation, commercially available reagents
- Method has been successfully piloted, twice
- Industry leading upgrade ratio 8.5% mass pull, 10 x REO and 6 x U₃O₈ grades in concentrate
- High upgrade ratio via single method transforms, massive, bulk resources into low-mass, high-grade mineral concentrate ~15% TREO and >2500ppm U₃O₈
- Rejection of non-value minerals that constitute >90%
 of starting mass minimises reagent consumption in
 hydrometallurgical leach, to deliver high efficiency and
 competitive production costs

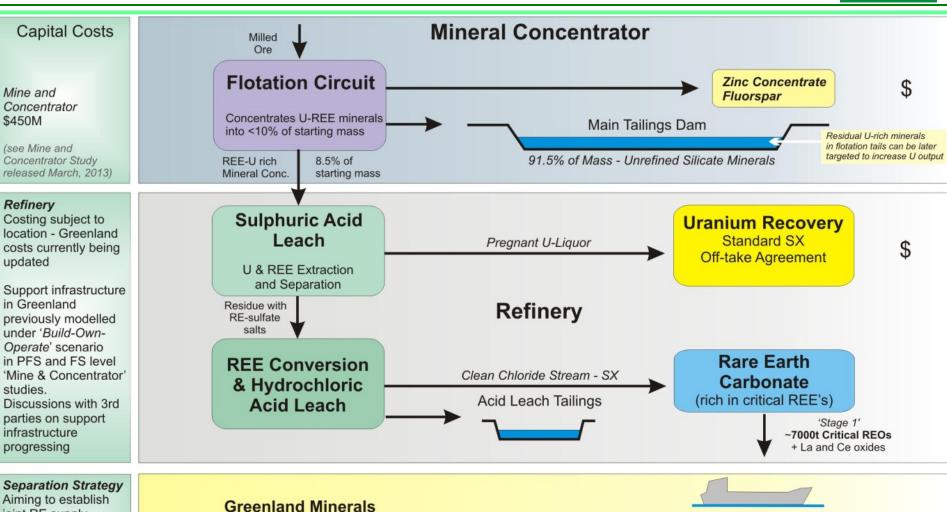
Step 2 - Hydrometallurgical Leaching

- Flotation concentrate minerals yield >90% extraction of U and heavy REEs in sulphuric acid leach, under atmospheric conditions
- No high-temperature 'acid bake' or 'caustic crack' required
- Solvent extraction recovery of U and RE concentrates
- GMEL submitted patent applications over leach methodology
- Scaled-up, continuous test-work delivers clean RE concentrates, 97% REO with 15% as heavies
- All impurities effectively managed through the leach process; circuit de-risked and awaiting final pilot run

The Kvanefjeld Project – Development Strategy – Stage 1







Aiming to establish joint RE supply business with group proficient in RE separation.
Advancing dialogue with NFC, MoU signed, technical work programs mapped out

Integrated Global RE Supply Business

Separation, Marketing, Sales

Separation High-purity RE products

\$

\$

15

Rare Earth Strategy – Alignment with NFC



NFC is a leader in rare earth separation technology, with capacity expansion planned

- GMEL's strategy has been to establish a partnership with a group that is experienced in rare earth separation to create a complete RE supply chain; a different business model to recent market entrants
- **NFC** An optimal RE partner for the Kvanefjeld Project
 - ✓ Pioneered RE separation in China Current capacity of 3000t/a
 - ✓ New 7000t/a facility planned with all approvals in place matches Kvanefjeld concentrate output
 - ✓ Excellent EPC capacity, experienced in building and operating mines and refineries worldwide
 - ✓ Strong financial backing subsidiary of CNMC (~US\$30bn/a revenue)
 - Ambition to become a dominant player in global RE supply
 - ✓ Signing of MoU comes after substantial technical due-diligence on Kvanefjeld
- Both parties are aiming to cooperate technically to finalise a mining license application and complete the feasibility program, while working toward establishing a commercial agreement
- GMEL will increase its attention on firming up an optimal uranium partner for Kvanefjeld

The Kvanefjeld Project



Final milestones to take Kvanefjeld up to project financing now readily achievable

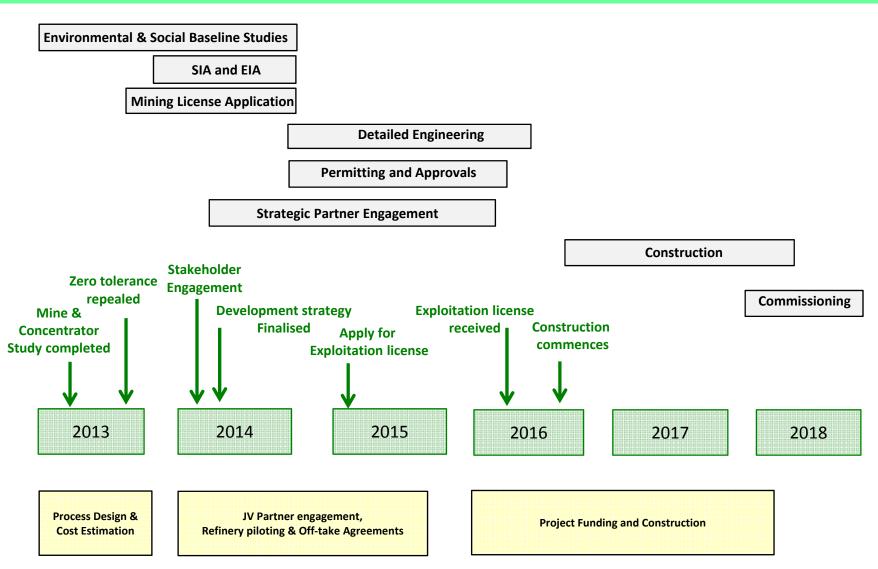
Next steps:

- Finalise EIA, SIA, 'exploitation license application' through 2014, submit early 2015
- Detailed engineering design to continue in parallel to permitting
- Continue to develop business strategy, advance discussions with project participants
- Progress relations with NFC move toward commercial negotiations, product and marketing strategy
- Establish uranium partner stage one off-take, evaluate expansion/growth strategy options
- In conjunction with strategic partner consideration; commence structuring of optimal project development financing to deliver best-possible shareholder return
- Maintain stakeholder engagement program, to ensure Greenland is fully informed of the next steps, and the opportunities involved in Kvanefjeld project
- In summary position and structure the Kvanefjeld project for the development pipeline

The Kvanefjeld Project – Project Timeline



Key Milestones: mining license application, confirmation of partners, off-takes



Greenland Minerals and Energy - Community Engagement

Qaqortoq Open Day – Outlining the steps in Kvanefjeld's development path

























- ✓ One of the world's largest rare earth and uranium resources, with potential for major growth
- ✓ Direct shipping access to project area year round
- ✓ Large, outcropping ore bodies allow for simple, low cost, open-pit mining
- ✓ Unique and highly favourable ore-type conducive to simple, cost-competitive processing
- ✓ Clear scope to be one of the largest producers of 'critical' rare earth elements globally
- ✓ Zero-tolerance policy toward uranium removed clears path to finalise development strategy
- ✓ Technical studies well advanced, process methodology developed by respected metallurgical team
- **✓** Development timeline now well-aligned with strengthening uranium and critical rare earth markets



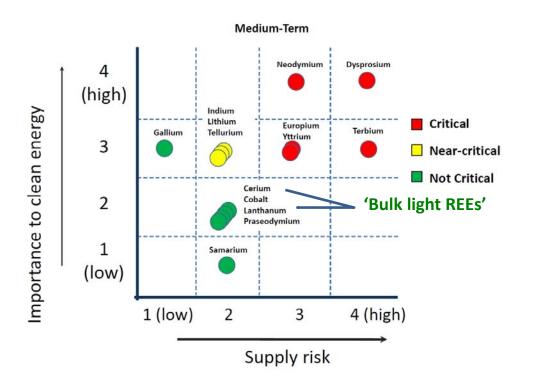


Rare Earth Element Market



Growth sector with looming supply shortfalls across the 'critical REEs'

- **REE's** are not rare, but *economically-viable* sources are
- Rare earth market is dominated by China both supply and demand
- Major restructure of the industry in China effecting global supply and pricing
- China is consolidating its industry, leading to a more globally integrated supply network with greater transparency and clearer pricing



- Critical REEs are recognised as those important to clean energy that have strong demand growth, but supply concerns
- In order to produce sufficient critical REEs, an excess of 'bulk light' REEs may result
- Kvanefjeld's multi revenue streams and significant critical rare earth output, reduces marketing risk associated with 'bulk light' REEs Ce and La

Uranium Market and the Nuclear Power Outlook





Uranium is part of the global energy business through nuclear power

- The nuclear power industry has received intense scrutiny following the Fukushima incident
- However; post-Fukushima the energy policies for numerous developed and developing nations are focused on diversity, with nuclear power set to play in important role
- As energy demand grows, so does the requirement for increased nuclear power capacity
- Significant new reactor build and further planning is underway in China, and numerous other nations
- End to 'megatons to megawatts' program in 2013, which had provided significant secondary supply
- Increasing recognition of the ability of nuclear power to counter carbon emissions associated with base-load energy generation
- Incremental restart of Japanese nuclear power stations anticipated in near-term
- Multiple factors point to strong fundamentals major supply issues looming, demand set to grow

Greenland Minerals and Energy



Kvanefjeld Multi-Element Project, Statement of Identified Mineral Resources

	Multi-Element Resources Classification, Tonnage and Grade							Contained Metal						
Cut-off	Classification	M tonnes	TREO ²	U ₃ O ₈	LREO	HREO	REO	Y_2O_3	Zn	TREO	HREO	Y_2O_3	U ₃ O ₈	Zn
$(U_3O_8 ppm)^1$		Mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Mt	Mt	Mt	M lbs	Mt
Kvanefjeld - March 2	011													
150	Indicated	437	10929	274	9626	402	10029	900	2212	4.77	0.18	0.39	263	0.97
150	Inferred	182	9763	216	8630	356	8986	776	2134	1.78	0.06	0.14	86	0.39
150	Grand Total	619	10585	257	9333	389	9721	864	2189	6.55	0.24	0.53	350	1.36
200	Indicated	291	11849	325	10452	419	10871	978	2343	3.45	0.12	0.28	208	0.68
200	Inferred	79	11086	275	9932	343	10275	811	2478	0.88	0.03	0.06	48	0.20
200	Grand Total	370	11686	314	10341	403	10743	942	2372	4.32	0.15	0.35	256	0.88
250	Indicated	231	12429	352	10950	443	11389	1041	2363	2.84	0.10	0.24	178	0.55
250	Inferred	41	12204	324	10929	366	11319	886	2598	0.46	0.02	0.03	29	0.11
250	Grand Total	272	12395	347	10947	431	11378	1017	2398	3.33	0.12	0.27	208	0.65
300	Indicated	177	13013	374	11437	469	11906	1107	2414	2.30	0.08	0.20	146	0.43
300	Inferred	24	13120	362	11763	396	12158	962	2671	0.31	0.01	0.02	19	0.06
300	Grand Total	200	13025	373	11475	460	11935	1090	2444	2.61	0.09	0.22	164	0.49
350	Indicated	111	13735	404	12040	503	12543	1192	2487	1.52	0.06	0.13	98	0.27
350	Inferred	12	13729	403	12239	436	12675	1054	2826	0.16	0.01	0.01	10	0.03
350	Grand Total	122	13735	404	12059	497	12556	1179	2519	1.68	0.06	0.14	108	0.31
Sørensen - March 20	12													
150	Inferred	242	11022	304	9729	398	10127	895	2602	2.67	0.10	0.22	162	0.63
200	Inferred	186	11554	344	10223	399	10622	932	2802	2.15	0.07	0.17	141	0.52
250	Inferred	148	11847	375	10480	407	10887	961	2932	1.75	0.06	0.14	123	0.43
300	Inferred	119	12068	400	10671	414	11084	983	3023	1.44	0.05	0.12	105	0.36
350	Inferred	92	12393	422	10967	422	11389	1004	3080	1.14	0.04	0.09	85	0.28
Zone 3 - May 2012														
150	Inferred	95	11609	300	10242	396	10638	971	2768	1.11	0.04	0.09	63	0.26
200	Inferred	89	11665	310	10276	400	10676	989	2806	1.03	0.04	0.09	60	0.25
250	Inferred	71	11907	330	10471	410	10882	1026	2902	0.84	0.03	0.07	51	0.2
300	Inferred	47	12407	358	10887	433	11319	1087	3008	0.58	0.02	0.05	37	0.14
350	Inferred	24	13048	392	11392	471	11864	1184	3043	0.31	0.01	0.03	21	0.07
Project Total														
Cut-off	Classification	M tonnes	TREO ²	U ₃ O ₈	LREO	HREO	REO	Y_2O_3	Zn	TREO	HREO	Y_2O_3	U₃O ₈	Zn
$(U_3O_8 ppm)^1$		Mt	ppm	ppm	ppm	ppm	ppm	ppm	ppm	Mt	Mt	Mt	M lbs	Mt
150	Indicated	437	10929	274	9626	402	10029	900	2212	4.77	0.18	0.39	263	0.97
150	Inferred	520	10687	272	9437	383	9820	867	2468	5.55	0.20	0.45	312	1.28
150	Grand Total	956	10798	273	9524	392	9915	882	2351	10.33	0.37	0.84	575	2.25

¹There is greater coverage of assays for uranium than other elements owing to historic spectral assays. U₃O₈ has therefore been used to define the cut-off grades to maximise the confidence in the resource calculations.

²Total Rare Earth Oxide (TREO) refers to the rare earth elements in the lanthanide series plus yttrium.