



GREEN MINERALS
Enabling the green shift

Q3 2024

Oslo, November 7, 2024

Ståle Rodahl, Executive Chairman
Ståle Monstad, CEO

Disclaimer

- All statements contained in this presentation that are not statements of historical facts, including statements on projected operating results, financial position, business strategy, and other plans and objectives for future results, constitute forward-looking statements and are predictions of, or indicate, future events and future trends which do not relate to historical matters. No person should rely on these forward-looking statements because they involve known and unknown risks, uncertainties, and other factors which are, in many cases, beyond the company's control and may cause its actual results, performance, or achievements to differ materially from anticipated future results, performance or achievements expressed or implied by the forward-looking statements and from past results, performance or achievements. These forward-looking statements are made as of the date of this presentation and are not intended to give any assurance as to future results. None of the company, its employees, and its representatives assumes any obligation to update these statements.

Financial Highlights

Key figures						
All figures in NOK '000 (except equity ratio)	Quarters*		9 months ending*		Full year*	
	Q3 2024	Q3 2023	30.9.24	30.9.23	2023	2022
Revenues	-	-	-	-	6	206
Operating expenses	-9,143	-1,658	-14,794	-6,947	-10,943	-11,330
EBITDA	-9,143	-1,658	-14,794	-6,947	-10,937	-11,124
EBIT	-9,143	-1,658	-14,794	-6,947	-10,937	-11,124
Profit/(loss)	-9,143	-1,640	-14,796	-6,976	-10,966	-11,110
Cash flow operating activities	-10,067	-2,132	-14,932	-6,854	-9,528	-8,883
Net cash flow	-2,237	-2,132	-7,102	-7,508	-9,528	2,185
Total assets	5,613	14,833			0	0
Cash and cash Equivalents	4,621	13,744			11,723	21,252
Equity ratio	71%	94%			90%	94%

* Quarterly and year to date figures are unaudited. Full year figures are audited

- Q3 underlying EBITDA was NOK -2.3 million, excluding:
 - NOK 0.9 million non-cash gain on the company's share incentive program
 - NOK 7.8 million non-cash cost related with equity issue to OSI
- Last twelve months run-rate is still in line with previous guiding.

Q3 Highlights

- **Directed equity issue to Oil States Industries (OSI)**
 - 4% of the Company issued @ NOK 15 per share
- **MoU signed with Soil Machines Dynamics (SMD)**
 - Joint development of Core Sampling Unit
- **Exploration capex (est) revised down 25%**
 - Capex until first ore estimated lower
- **Strong progress towards license awards**
 - Minister of Energy confirms license awards 1H'25
- **New SMS discovery in Norway**
 - Another promising discovery confirms the prospectivity of the Mohns Ridge

Partnership for responsible production



GREEN MINERALS



- A robust system has been proposed – production of 1.5mtpa in harsh environment
- Creation of a consortium that covers all competence needed to engineer and produce the required production system
- OSI is now a 4% share-holder of GEM, highlighting interest from relevant industrial players



GREEN MINERALS

SMD – Collaboration for Core Sampling and Exploration Technologies

- GEM has identified limited availability of Core Sampling equipment for future SMS exploration campaigns
- Soil Machine Dynamics (SMD) is a key-player within OSI consortium as responsible for the design and integration of the subsea mining units
- GEM and SMD have identified an area of mutual interest leading to a MoU signed on October 31st 2024:
 - Development of a Core Sampling Unit(CSU)
 - Optimisation of CSU operations with unmanned geophysics and environmental survey
 - => Being ready by Q2 2026 with a sustainable and robust exploration campaign setup



Draghi Report EU



“The EU should also carefully explore the potential of environmentally-sustainable deep sea mining: estimates suggest that the sea bed holds large multiples of the known land-based reserves for example for copper, titanium, manganese, cobalt, nickel and rare earth elements.”

[EU competitiveness: Looking ahead - European Commission \(europa.eu\)](https://european-council.europa.eu/media/e3000424/1/162222main_en.pdf)

Political support and engagement



«We need more minerals. Demand for minerals will increase in the coming years and we are currently heavily dependent on Russia and China. This means that the value chains for the green shift are very strained.»

Follow up on the proposed National Budget for 2025



The screenshot shows the Government.no website. At the top left is the Norwegian coat of arms and the text "Government.no". To the right is a search bar with the word "Search" inside and a "Search" button. Below this is a navigation menu with "Topics", "Documents", "What's new", "Ministries", and "The Government". The main content area has a breadcrumb trail: "Home • What's new • Press releases". On the right side of the main content area are "Share/Send" and "Print" icons. The main headline reads: "The government proposes to increase the allocation for resource and environmental mapping of seabed minerals". Below the headline is the text "Press release | Date: 07/10/2024" and a link "Les på norsk". The main body of text states: "The government will facilitate responsible, sustainable and profitable seabed mineral activity on the Norwegian continental shelf. We need more knowledge about the mineral resources, the environmental conditions in the Norwegian deep-sea areas, and about regional and local currents in these areas. The government proposes to allocate 150 million NOK in 2025 for the management of seabed minerals, including resource and environmental mapping." On the right side of the page, there is a "Ministry of Energy" section, a "TOPIC" section with buttons for "Seabed Minerals" and "The National Budget", a "RELATED" section with a link to "The National Budget 2025", and a "CONTACT" section with details for the Communication Unit (KOMM), including an email address, phone number, and address.

Government.no

Search Search

Topics Documents What's new Ministries The Government

Home • What's new • Press releases

Share/Send Print

The government proposes to increase the allocation for resource and environmental mapping of seabed minerals

Press release | Date: 07/10/2024
[Les på norsk](#)

The government will facilitate responsible, sustainable and profitable seabed mineral activity on the Norwegian continental shelf. We need more knowledge about the mineral resources, the environmental conditions in the Norwegian deep-sea areas, and about regional and local currents in these areas. The government proposes to allocate 150 million NOK in 2025 for the management of seabed minerals, including resource and environmental mapping.

Ministry of Energy

TOPIC

Seabed Minerals The National Budget

RELATED

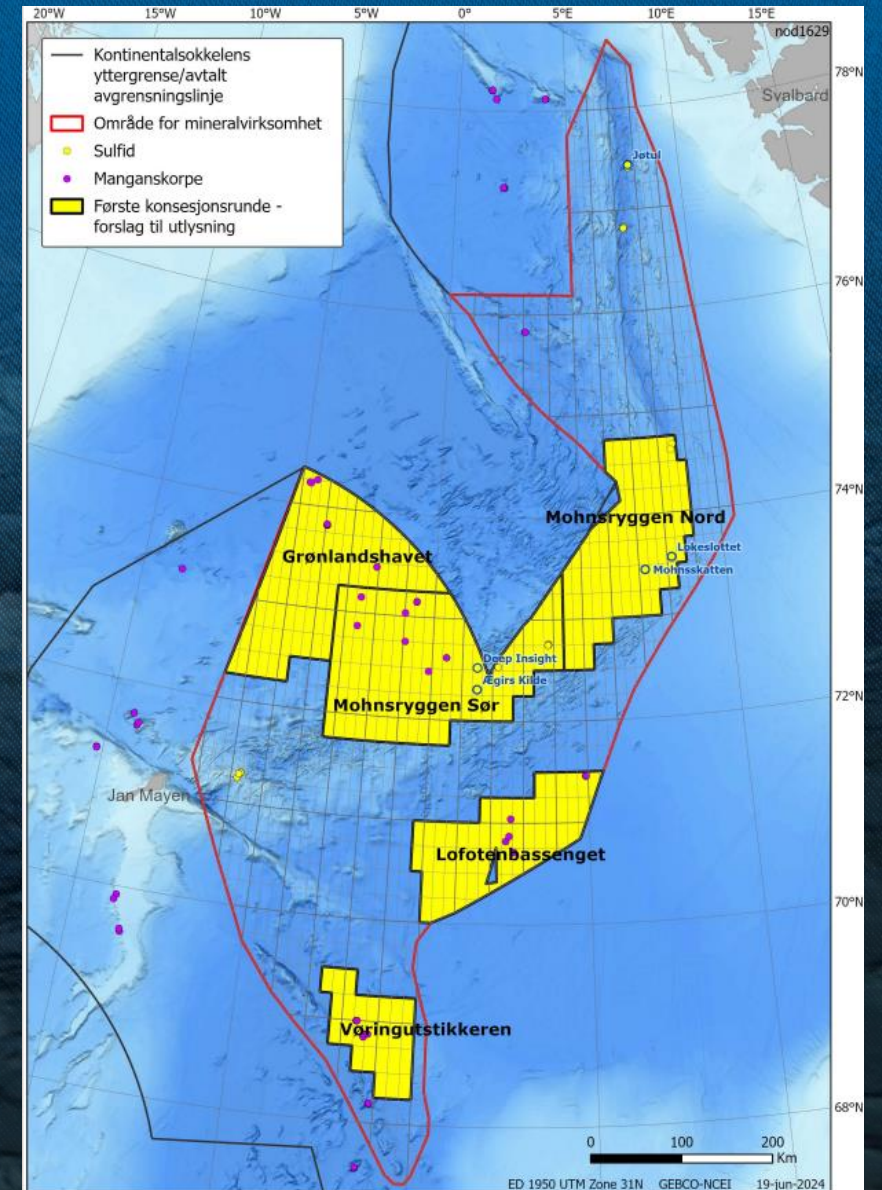
> [The National Budget 2025](#)

CONTACT

[Communication Unit \(KOMM\)](#)
E-mail: info@ed.dep.no
Phone: +47 41 57 35 00
Address: Postboks 8148 Dep, 0033 Oslo
Visitor address: Akersgata 59, Oslo

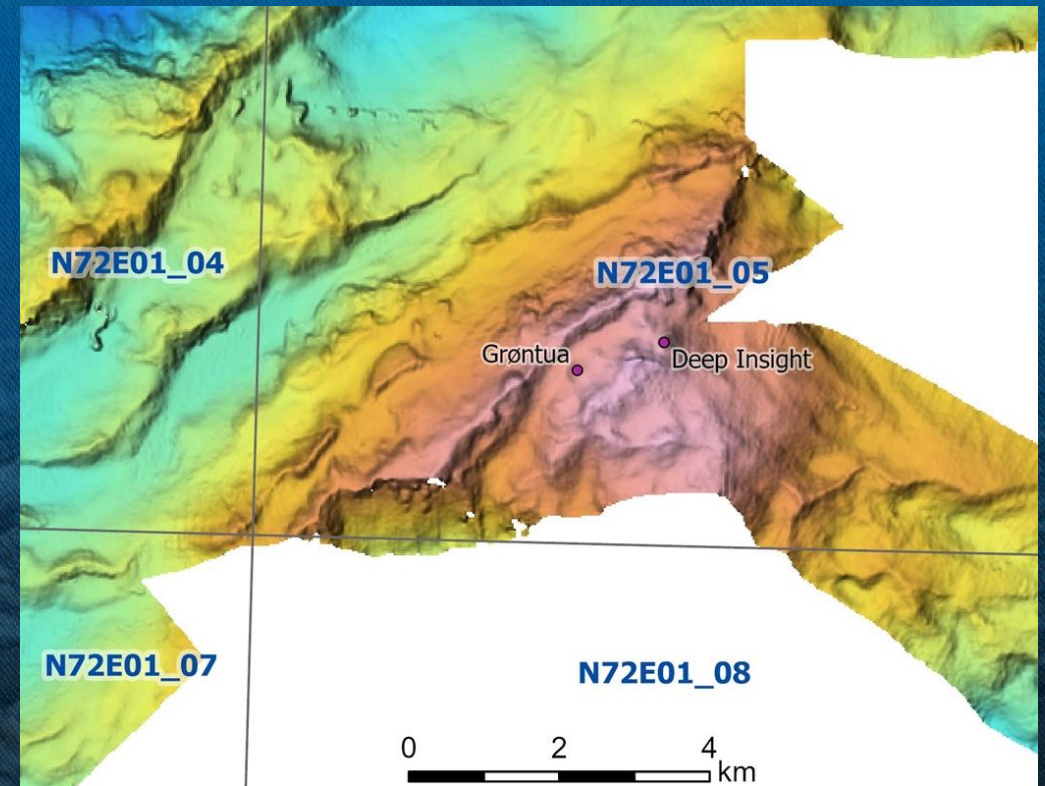
GEM's response to the public hearing

- GEM positive to the proposed area.
 - Includes GEM's highest ranked areas in Mohnsryggen Sør and Mohnsryggen Nord
- Recent findings from research cruises led by the University of Bergen highlight significant copper potential along the Norwegian Mid-Ocean Ridge
- Active hydrothermal vents will not be harmed from mining activities



Grøntua

- Grøntua
 - ~1200 m depth
 - 150*150 m wide
 - 60 m high
 - ~2 km from Deep Insight
- Deep Insight discovered in 2023
 - ~1100 m depth
 - 300*300 m
 - 150 m high
 - Cu values
 - Up to 13%
 - 5,2 % avg zone ~1 m
- Confirms cluster theory



[New sulphide deposit on the Norwegian continental shelf \(NCS\) - The Norwegian Offshore Directorate \(sodir.no\)](https://sodir.no)

Copper is critical

Copper is critical today!



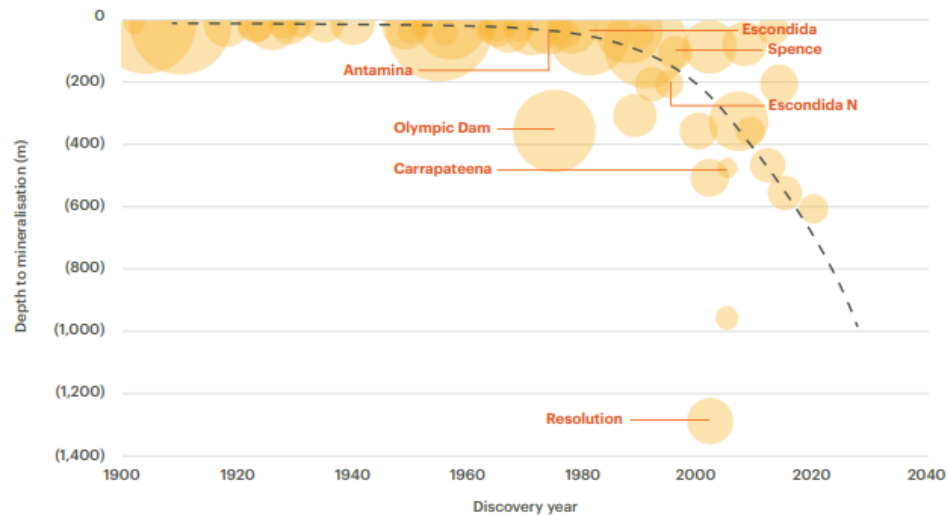
Green Minerals
1,821 followers

August 26, 2024

[Copper is critical today!](#) | [LinkedIn](#)

Major copper discoveries are becoming less common and getting deeper...

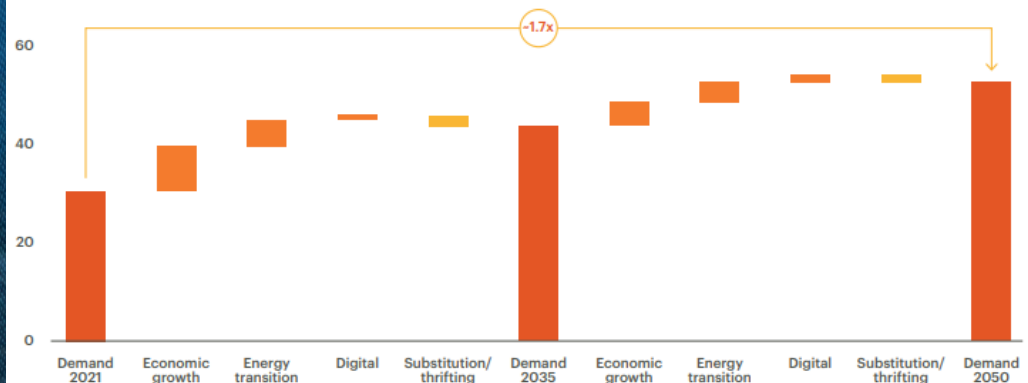
(Selected major deposits, >3Mt contained copper)



Source: MinEx Consulting; BHP analysis.

Copper demand projected to grow ~70% through to 2050...

(Copper demand by key theme, Mt)



Today's mines are getting older...

(Age of mines of operating in 2023, copper production)

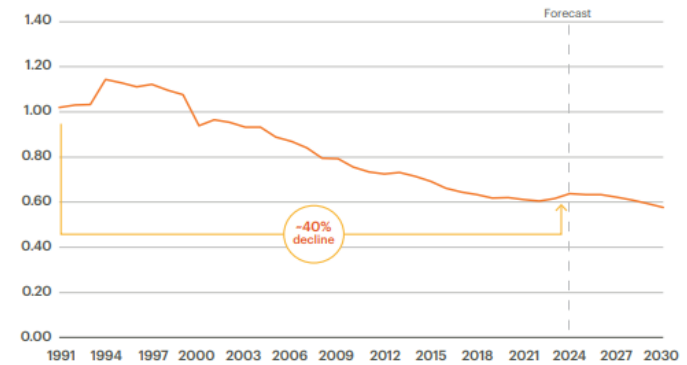


- 0-10 years
- 11-20 years
- 21-30 years
- 31-40 years
- 41-50 years
- 50+ years

Source: S&P Global Market Intelligence.
Note: Only includes mines >15 ktpa copper.

...and lower grade

(Mined head grade, % Copper)



Source: S&P Global Market Intelligence (1991-1999), Wood Mackenzie (2000-2030).



Ambition: to become a license holder in one of the worlds most attractive copper resources with the lowest use of capital possible.
Subsequently: deliver 1,5mt world class quality ore for off-take

Strategy: partnership model & asset light

Project status

- Norway opening 9 January 2024
- Production concept in place
- Joint processing with terrestrial ore proven
- GEM have nominated areas for licensing

Company en route to deliver on stated ambitions

- License holdership expected in Q2 2025
- First ore from pilot production expected in 2029
- Unmatched capital efficiency vs traditional onshore mining

License

- GEM holds USD 50m worth of exploration data
- License application expected in Q1 2025
- Green Minerals is well-positioned for a license win in 2025 and ready to execute on awarded acreage

SUPERIOR KEY METRICS DISRUPTING THE ECONOMICS OF TRADITIONAL COPPER MINING



Economics

- No infrastructure investment needed
- CAPEX per ton USD 17k/t vs USD 30k/t onshore
- Pick up equipment and leave for next site --> zero sunk cost in mine
- Offshore oil&gas services business model
 - Capital efficiency
 - Asset light

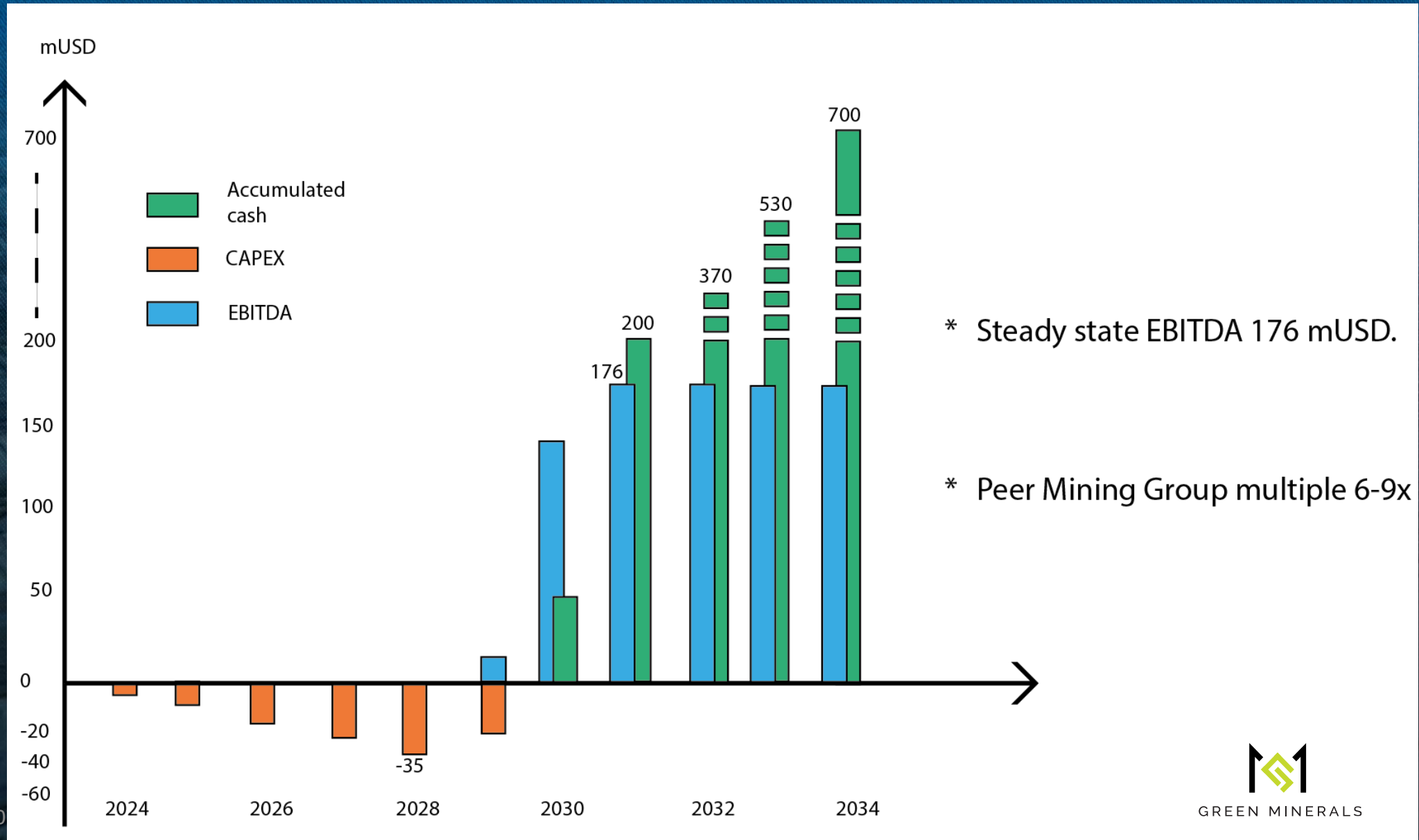


Environmental

- 90% reduction in environmental footprint*
- Semi-closed loop HEDSM system
- No midwater plume, return water transported to the seafloor
- No pumps creating noise along the riser-system
- Sharply reduced overburden
 - Less waste
 - Less tailings

* Paulikas et. al., 2020 (for nodules)

NCS one GEM HEDSM system – cash profile 2024-2034 (est)



Capex & funding - in a partnership model*

CAPEX Item	Project CAPEX	GEM Funding
Production concept	Significant	Zero
2 Research cruises AMOR	Significant	Low
Blendability Project	Low	Negligible
DeepMineX	Low	Zero
Exploration CAPEX	Significant	Zero(pending)
Production system	Large	Zero(pending)

* No automatic link between license win and funding need

Summary



GREEN MINERALS

**Delivering on
strategy –
ready for next
step**



Norway 9 January 2024 opening decision derisks business case

- GEM invited to nominate license area
- GEM in pole position for license win



Production concept developed together with globally leading partners and ready



VMS/SMS Processing study confirms business plan and adds significant industrial value to project



Mining infrastructure in Nordics well developed - off-take agreements expected closer to first ore
Discussions with several potential partners have been initiated



DSM metrics superior to traditional terrestrial mining

- Business model
- Economics
- No automatic link between license win and funding need – partnership model
- ESG – perception vs reality



Unusually strong investment case financially

- USD 176 mill in annual EBITDA from one HEDSM system
- Pre-tax CROI > 300pc pa
- Pre-tax cash payback time 4 months



Market cap USD 10 million

GEM is primarily a copper play. CCZ license MoU provides upside on other key battery metals.

Q&A



GREEN MINERALS
Enabling the green shift



THANK YOU!