

Solwara 1 Deep Sea Mining Project Papua New Guinea

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Status

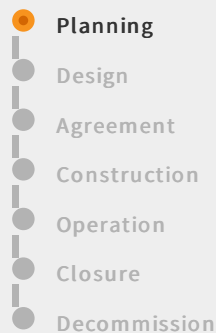


Sectors

Mining

Location

Status



Website

<http://www.cares.nautilusminerals.com/irm/content/solwara-1-project.aspx?RID=339>

About Solwara 1 Deep Sea Mining Project

The Solwara 1 project, being developed by Canadian company Nautilus Minerals, is intended to extract high-grade Seafloor Massive Sulphide (SMS) deposits of copper, gold, zinc and silver from the Bismarck Sea, Papua New Guinea. The project is set at 1,600 metres water depth and if developed would be the world's first deep sea mining project. Solwara 1 is located approximately thirty kilometres from the nearest coast (New Ireland Province) and fifty kilometres north of the international Port of Rabaul (East New Britain Province).

The project is expected to start its operations in 2018. It has been granted an operating license by the Papua New Guinea Government without having been given free, prior and informed consent of nearby coastal communities.

Nautilus has no source of revenue and will need to raise additional equity, debt or joint venture partner funding to advance the development of the Solwara 1 project. Nautilus requires at least USD 125 million to USD 175 million and will need to approach the market to secure the funds it needs. Nautilus has not conducted standard economic assessments of the project and any financial supporter of Solwara 1 will find itself exposed to a high level of risk.

Latest developments

Solwara 1 project collapses as Nautilus goes bankrupt

Oct 7 2019

Anglo American divests from Nautilus over risks of deep sea mining

May 7 2018

Why this profile?

Update: As of September 2019 the Solwara 1 project has collapsed, with the project backer Nautilus going into administration.

What must happen

The Solwara 1 project will have a devastating impact on the marine environment and the health, livelihoods and cultures of nearby coastal communities. Financial institutions should steer clear of Nautilus and not provide funds for this high risk, experimental project.

Impacts

Human rights, social and gender impacts

The lives of nearby coastal communities depends almost entirely on the sea. People have spiritual and cultural connections to the sea, and rely on the sea for their livelihoods. People fear that the Solwara 1 project will result in a loss of identity and livelihood.

The fishing grounds of coastal communities on New Ireland and East New Britain includes the site of the Solwara 1 project. Deep water fish such as tuna are caught at the Solwara 1 site and reef fish are caught at nearby reefs. These fisheries are an important source of both income and are the main source of protein consumed by local people. There is concern that metals and other toxicants from the Solwara 1 project will enter the food chain and have a devastating impact on human health. Local communities strongly oppose the Solwara 1 project - they do not want to be guinea pigs in a dangerous experiment.

The Solwara 1 project has the potential to undermine people's right a livelihood, health and culture. Nautilus is proceeding with the Solwara 1 project without the free, prior and informed consent of coastal communities. The right to free, prior and informed consent is an important right itself and acts as a safeguard to protect other rights - such as to a livelihood.

Environmental impacts

New research reveals experimental seabed mining could have a devastating impact on life forms that are 'literally saving the planet' and preventing a 'doomsday climatic event'. The research lists experimental seabed mining as a major threat to ocean life residing around hydrothermal vents which has been found to consume enormous quantities of methane that would otherwise enter the atmosphere. Source: Papua New Guinea Mine Watch. Read more [here](#).

A study carried out between 2002 and 2007 estimated that there could be more than 1,000 species at a single site in the key region proposed for mining. According to the Global Ocean Commission, "mining at the seafloor will cause localized damage, including crushing living organisms, removal of substrate habitat and disturbance of sediment", with further environmental impacts during processing. They list rising demand for resources, technological advances and weak high seas governance as "drivers of decline" for the oceans (source [The Huffington Post](#)).

Governance

Applicable norms and standards

OECD Guidelines for Multinational Enterprises

UN Guiding Principles on Business and Human Rights

United Nations Convention on Biological Diversity

United Nations Convention on the Law of the Sea

United Nations Declaration on the Rights of Indigenous Peoples

United Nations International Covenant on Civil and Political Rights

United Nations International Covenant on Economic, Social and Cultural Rights

Updates

Solwara 1 project collapses as Nautilus goes bankrupt

Oct 7 2019

As of September 2019 the Solwara 1 project has collapsed, with the project backer Nautilus going into administration.

According to [Mining Journal](#): "The company was unsuccessful to raise enough cash to successfully develop its Solwara 1 deepsea deposit. Working against it too was the pioneering nature of its project, and strong organised resistance from local and international non-governmental agencies who argue not enough is known about mining's potential impact on the ocean floor and surrounding water columns."

[The Guardian reports](#) that following the company's collapse the President of Fiji made a call for a 10-year moratorium on deep sea mining in the Pacific, which has been supported by the prime ministers of PNG and Vanuatu.

Anglo American divests from Nautilus over risks of deep sea mining

May 7 2018

Anglo American has exclusively [confirmed to the Deep Sea Mining Campaign](#) that they have exited their investment in the Nautilus Minerals Solwara 1 deep sea mining project.

Legal action launched over the Nautilus Solwara 1 Experimental Seabed Mine

Dec 8 2017

Coastal Communities have launched legal proceedings against the PNG Government in a bid to obtain key documents relating to the licensing and the environmental, health and economic impacts of the Solwara 1 deep sea mining project. [Read more.](#)

Constitutional Right to Key Documents on Experimental Seabed Mining

Oct 3 2017

Coastal Communities in Papua New Guinea have formally requested that the PNG Government make public key documents relating to the licensing and the environmental impacts of the Solwara 1 deep sea mining project by October 18 or face the prospect of legal proceedings. "Very little information about the Solwara 1 project has been disclosed by PNG Government or the project developer, Nautilus Minerals", stated Peter Bosip, Executive Director, Centre for Environmental Law and Community Rights (CElCoR). (source [Deep Sea Mining Campaign](#)).

Nautilus still seeking funds for Solwara 1 project

Sep 26 2017

In [a corporate update](#) Nautilus stated that "the Company's current cash position and budget, in order to maintain the Company's operations and the development of the Solwara 1 Project, the Company needs to obtain new funding

of approximately USD 41 million prior to the end of 2017 and, in particular, at least approximately USD 15 million is required before October 31, 2017 in order to meet the Company's contractual commitments in relation to certain of the equipment forming part of the seafloor production system." In [a second press release](#) Nautilus stated that two of its major shareholders are to assist in finding finance for the development of the Solwara 1 Project.

Nautilus Minerals facing financial collapse

Jul 5 2016

Canadian mining company Nautilus Minerals is facing a severe financial crisis that threatens not just its plans for experimental seabed mining in Papua New Guinea, but the future of the whole company. Nautilus says not only is it delaying any further project spending, it desperately needs short-term emergency funding to continue company operations to allow staff more time to look for 'significant additional funding' or an 'alternative transaction aimed at maximising shareholder value'. Nautilus says 'there can be no assurances that the company will be able to obtain the necessary bridge financing or project financing on acceptable terms or at all. This may lead to suspending or terminating the development of the seafloor production system **and the Solwara 1 Project.**' (source: [Papua New Guinea Mine Watch](#)).

Press release Nautilus on the Solwara 1 project

Jun 29 2016

Toronto Ontario, June 29, 2016 - [Nautilus Minerals Inc.](#) announces that, further to the Company's news release dated April 8, 2016, the Company continues to seek and consider various alternative sources of financing in order to maintain the development of the Solwara 1 project and the company's operations.

Financiers

Several financial institutions have provided corporate loans or underwritten bonds to MB Holding and Metalloinvest (the two major share holders of Nautilus Minerals) or their subsidiaries since 2013. See below.

Note these banks are not involved with financing the Solwara 1 Deep Sea Mining Project directly. Rather, they are listed here as they are considered likely to be called upon to finance the project, given the [stated financing strategy for the project](#), and because they should be in a position to engage with these companies regarding the risks of this project.

Banks

ABN AMRO Netherlands profile Details ▼		
Debt – corporate loan	USD 45 million	2013
Provided to MB Holding or its subsidiaries since 2013 <i>source:</i> Profundo report link		
Alfa Bank Russian Federation profile Details ▼		
Bond issue – underwriter	USD 33.17 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
BNP Paribas France profile Details ▼		
Debt – corporate loan	USD 45 million	2013
Provided to MB Holding and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Debt – corporate loan	USD 101.40 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
BPCE Group France profile Details ▼		
Debt – corporate loan	USD 29.33 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Bank Otkritie Russian Federation profile Details ▼		
Bond issue – underwriter	USD 33.17 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Bank of America United States profile Details ▼		
Bond issue – underwriter	USD 114.29 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Debt – corporate loan	USD 61.51 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Bank of China China profile Details ▼		
Debt – corporate loan	USD 134.28 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		

[Bank of the South Pacific](#)

[Details ▼](#)

Approached, interested

[China Construction Bank](#) China [profile](#)

[Details ▼](#)

Debt – corporate loan EUR 61.51 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

[Commerzbank AG](#) Germany [profile](#)

[Details ▼](#)

Debt – corporate loan USD 29.33 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

[Credit Suisse Group](#) Switzerland [profile](#)

[Details ▼](#)

Bond issue – underwriter USD 280.95 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

Debt – corporate loan USD 111.06 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

[Crédit Agricole](#) France [profile](#)

[Details ▼](#)

Bond issue – underwriter USD 166.67 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

Debt – corporate loan USD 279.17 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

[Deutsche Bank](#) Germany [profile](#)

[Details ▼](#)

Bond issue – underwriter USD 166.67 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

Debt – corporate loan USD 281.60 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

[Gazprombank](#)

[Details ▼](#)

Bond issue – underwriter USD 340.09 million 2013

Provided to Metalloinvest and its subsidiaries since 2013

source: Profundo report

[link](#)

[HSBC](#) United Kingdom [profile](#)

[Details ▼](#)

Debt – corporate loan	USD 99.38 million	2013
Provided to MB Holding and its subsidiaries since 2013 <i>source:</i> Profundo report link		
ING Group Netherlands profile		Details ▼
Bond issue – underwriter	USD 114.29 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Debt – corporate loan	USD 93.13 million	2013
Provided to MB Holding and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Debt – corporate loan	USD 876.96 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Industrial and Commercial Bank of China (ICBC) China profile		Details ▼
Debt – corporate loan	USD 61.51 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Intesa Sanpaolo Italy profile		Details ▼
Debt – corporate loan	USD 21.18 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Mitsubishi UFJ Financial Group (MUFG) Japan profile		Details ▼
Debt – corporate loan	USD 1.652 billion	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Nordea Finland profile		Details ▼
Debt – corporate loan	USD 61.51 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Rabobank Netherlands profile		Details ▼
Debt – corporate loan	USD 29.33 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Raiffeisen Zentralbank Austria AG Austria profile		Details ▼
Debt – corporate loan	USD 29.33 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		

Sberbank Russian Federation profile Details ▼		
Debt – corporate loan	USD 456.48 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Debt – corporate loan	USD 1.970 billion	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Société Générale France profile Details ▼		
Bond issue – underwriter	USD 280.95 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Debt – corporate loan	USD 606.30 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Standard Chartered United Kingdom profile Details ▼		
Bond issue – underwriter	USD 76 million	2013
Provided to MB Holding and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Sumitomo Mitsui Banking Corporation (SMBC) Japan profile Details ▼		
Debt – corporate loan	USD 48.59 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
UniCredit Group Italy profile Details ▼		
Debt – corporate loan	USD 700.76 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		
Vneshtorgbank (VTB) Russian Federation profile Details ▼		
Bond issue – underwriter	USD 456.48 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		

National development banks

Vnesheconombank Russian Federation profile Details ▼		
Bond issue – underwriter	USD 33.17 million	2013
Provided to Metalloinvest and its subsidiaries since 2013 <i>source:</i> Profundo report link		

Also included financiers to MB Holding and Metalloinvest were: Central Bank of Libya, Oman Arab Bank, Uralsib (Russia), Blogettex Finance (Cyprus) and BK Region (Russia). In August 2016 Nautilus obtained bridge financing and restructured Solwara 1 project delivery (source [Reuters](#)).

Related companies

Nautilus' significant shareholders (as per the company's [website](#), accessed October 2018) are MB Holding Company LLC (30.4%) and Metalloinvest Holding (Cyprus) Limited (19.2%).

Metalloinvest Holdings (Cyprus) Holdings Ltd is a wholly-owned subsidiary of [Metalloinvest JSC](#), which is in turn is a subsidiary of [USM Holdings](#), the company that manages the assets of one of Russia's richest oligarchs, Alisher Usmanov ([source](#)). Alisher Usmanov also owns 48% of USM Holdings. He is listed on the US Treasury's 2018 "[oligarch list](#)" of individuals that are closely affiliated with the Russian government.

Nautilus Minerals Canada

Project sponsor