

May 30th, 2019 Marubeni Corporation

Minera Antucoya Moves to Convert Mining Operations to 100% Renewable Energy in 2022

Minera Antucoya, which is owned 30% by Marubeni Corporation (hereinafter, "Marubeni") and 70% by Antofagasta plc (hereinafter, "Antofagasta"), one of the world's leading copper producers, has signed a power purchase agreement on May 23rd, 2019 with ENGIE Energía Chile S.A (hereinafter, "ENGIE Energía Chile"). The terms of the agreement state that, beginning in 2022, all Minera Antucoya mining operations will convert from coal fire to renewable energy.

The Antucoya copper mine is jointly operated by Antofagasta and Marubeni, which acquired 30% of the mine in 2012. The mine is located in the northern II Region of Chile, 180km northeast of Antofagasta City and produces copper cathodes utilizing the SX-EW* process. Antucoya commenced production in 2015 and is expected to produce about 80,000 tonnes of copper cathodes annually over a period of approximately 20 years.

In 2014, Minera Antucoya signed a power purchase agreement with ENGIE Energía Chile on the basis of coal fired power. However, under the terms of new agreement, ENGIE Energía Chile will supply around 300GWh of power generated by renewable energy sources to Minera Antucoya each year. This will eliminate annual emissions of approximately 134,000 tonnes of CO2. The Antucoya copper mine will become the second copper operation in the Chilean mining industry to run 100% on renewables.

Marubeni's objective in securing high quality copper assets is to meet the expected increase in demand for such assets due to use in electric vehicles and the development of an IoT society. Additionally, Marubeni will contribute to the stable supply of copper in Japan, reduce the environmental burden of copper mines, and continue to further strengthen its copper business foundation from a long-term perspective.

* Solvent Extraction and Electrowinning is a method by which an organic solvent is added to the leach solution containing copper recovered in the leaching process. Copper ions are selectively extracted, and then electrorefining is performed to obtain refined copper with a purity of 99.99%.

< Antofagasta >		
Company Name	: Antofagasta plc	
Location	: London, United Kingdom	
Founded	: 1888	
Business Activities	: Mining, Transportation, Water business	
HP	: http://www.antofagasta.co.uk/	



< ENGIE Energía Chile >				
Company Name	: ENGIE Energía Chile S.A (Chile subsidiary of the French power and			
	gas company, ENGIE S.A.)			
Location	Santiago, Chile			
Founded	1981			
Business Activities	Generation, transmission and supply of electricity and the			
	transportation of natural gas in Chile			
HP	https://www.engie.cl/			

< Minera Antucoya >

Location	: Republic of Chile, II Region (Antofagasta)		
Ore Reserve	: 641Millon tonnes, Cu Grade 0.34% (As of Dec, 2018)		
Copper Production	: Apporx. 80,000 tonnes (anual)		
Production Period	: 2015 – 2039		
Ownership	Company	Share	
	Antofagasta PLC	70%	
	Marubeni	30%	

- < Reference >
- November 6th, 2013

Signing of Project Finance Agreements for Chilean Copper Mining Project https://www.marubeni.com/en/news/2013/release/00060.html

December 15th, 2011

Marubeni to become 30% Partner in Antucoya Copper Project in Chile with Antofagasta plc https://www.marubeni.com/en/dbps_data/news/2011/11215e.html