MYTILINEOS
METKA | EPC & INFRASTRUCTURE BUSINESS UNIT

# MYTILINEOS - powering the mine

Building on a long-standing experience in the mining, energy and construction sectors, MYTILINEOS has developed a complete range of power generation and related solutions for mining and industrial customers.

Image Credit: MYTILINEOS

Specifically, the company's EPC and Infrastructure Business Unit – METKA has managed to ensure reliable, high-quality power supply for the operation of remote and off-grid mines, minimising the energy costs over the life-time of the project, as well as exposure to volatile factors, such as the cost of fossil fuels, and eliminating any possible disruption to plant operations.

This vast experience derives from numerous operations on remote locations, through various challenges of expensive, unreliable and low-quality power supply. On top of that, mining operations often deal with limitations in supply logistics, that generate additional risks. MYTILINEOS provides solutions for those challenges through specialised power plant configuration and innovative business models.

This end-to-end solution philosophy, especially in cases of remote and off-grid mines, with limited Life of Mine (LoM), starts from joint project development, through to long-term operation and maintenance. Based on an accredited Independent Power Producer (IPP) solution that is provided on a BOO or BOOT basis, with contract terms according to the Life of Mine (LoM), that typically start from five plus years.

Through a broader energy management and efficiency improvement philosophy, MYTILINEOS' hybrid power plant design can be further optimised resulting in maximum OPEX savings.

The Hybrid Plant Concept is fully integrated and adapted to each installation, typically combining:

- Reciprocating engines or gas turbines, operating with liquid fuels (diesel/HFO), natural gas or even in duel fuel configuration (liquid/gas). The fuel costs/OPEX is continually optimised by our central control system
- Solar PV, combined with battery storage, sized to accommodate the start-up and dynamic power requirements of the installation, especially of the critical loads. Combining renewables with battery storage provides an ideal replacement of spinning reserve for critical loads, with the added benefit of improved overall power quality
- Grid energy, when available, which may reduce the volume of investment required, increasing at the same time the overall energy availability. ■