



The Customer

Agnico Eagle - Fosterville is the largest producing gold mine in Victoria, Australia. The present-day underground gold mine has been in operation since 2005.

The Challenge

Agnico Eagle's Fosterville gold mine faced inefficiencies in their existing SCADA ventilation control system comprising of third party automated louvers, fans, PLCs and sensors, marked by complexity and manual operation. Variations in mine layouts, maintenance challenges and future SCADA upgrade costs further compounded the issue. Additionally, the mine sought to enhance operational efficiency by reducing energy usage, heat, and noise in the underground mine. Aligning with future imposed government emissions targets was also a priority.

The Solution

The intelligent Ventsim CONTROL (Level 3 - Flow & Gas Sensor Integration) was implemented. This marked significant advancement; through adaptability in ease of seamless integration with third party hardware and infrastructure, and simplification of ventilation management via world-wide accessible user-friendly interfaces. Ventsim CONTROL's innovative versatility was further leveraged to meet the customer's unique requirements of maximising optimisation and efficiency of their existing dual stage dual speed axial fans.

The Results

Ventsim CONTROL supercharged Fosterville's operation al efficiency by optimising energy use, reducing heat, as well as unwanted noise. The customer further commented, "we are surprised at how simple and quick the install process was". Lower energy consumption also reduced CO2 emissions, aligning with sustainability goals. Integrating Ventsim CONTROL with site-specific needs led to safer, more efficient, and sustainable underground mining operations. This addressed common industry wide challenges, delivering tangible benefits in efficiency, substantial cost savings across energy expense and unnecessary purchase of additional hardware, environmental impact, and safety. Ventsim CONTROL revolutionised Fosterville's ventilation control management.

KEY ADVANTAGES



6 mth PAYBACK

\$360K saved in annual electricity costs.



EASY INSTALL

Compatible with most SCADA systems, automated louvers, fans, PLCs and sensors.



SUSTAINABILITY

Reduced CO2 emissions through significant savings in electricity consumption.



Ventsim CONTROL is a world-class intelligent ventilation software that communicates to hardware devices, monitoring remotely, controlling and automating airflow, heating, and cooling systems. It improves safety, production, and significantly lowers mine ventilation costs. Try it today!



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