Underground mine reduces 54% of ventilation cost, improving air quality

Ventilation on demand adaptable and expandable for current circumstances and future operations

**SITUATION**

High energy cost for sending fresh air to a 500m deep underground mine
- Ventilation accounts for almost 50% of energy consumption
- Air polluted by diesel vehicles and blasting in underground mines
- Conditions can change quickly

**SOLUTION**

Ventilation on Demand (VoD)
- Centralized control of ventilation equipment
- Ventilation demands are dynamically calculated from mine production schedules, events, equipment status and location
- Sensor feedback and advanced multivariable control technology used for mine-wide optimization of air flows and air quality

**SUCCESS**

Healthy working environment underground with ventilation equipment operating more efficiently
- Ventilation energy savings of 54%
- Air heating energy savings of 21%
- Performance and quality increase in real time
- Easily to add, remove or relocate fans

**SCOPE OF DELIVERY**

ABB Ability™ Ventilation Optimizer

**BENEFITS**

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<th>Quality</th>
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<td>1%</td>
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