## Distributed Underground Air Compressors Demonstration

## **Grid Innovation Fund Project Details**

**Lead Proponent:** Newmont (formerly Goldcorp)

Partners: Drager, Technosub

Strategic Area(s): Electrification/Decarbonization, Enabling Non-Wires Alternatives

Project Total Cost: \$1,517,462

Year Contracted: 2018

Status: Closed

Location: Chapleau, Ontario

Economic Development: N/A



## **Project Objectives**

This project will seek to verify how small distributed air compressors can meet compressed air needs in mines using 50% less energy compared to a conventional central surface compressor plant with the associated underground distribution. The project will produce learnings on the business case and safe implementation of this novel approach.

## **Expected Outcomes**

If successful, this project will increase mining sector interest and confidence in this innovative approach to air compression, ultimately leading to wider implementation within and beyond Ontario and enhance the case for building new mines or converting existing mines to "all electric."

Given the timeline of the demonstration project, it is anticipated that this project could lead to new Industrial Accelerator Program applications.

Expected quantifiable outcomes include:

- Reduced compressed air consumption up to 75% compared to the baseline.
- 100% employees trained on the new equipment procedures.
- A case study, including energy benefits, cost evaluations, change management and lessons learned.