



**U**nit Electrical Engineering's speciality is the custom design and manufacture of moveable/portable mine substations. Their main use is in open-pit mining operations supplying electrical power to moveable equipment such as shovels, drills, pumps etc.

Moveable Mine Substations are designed to suit customers' applications and can be assembled on a flat deck trailer or a steel skid. A heated and ventilated switch house and a main transformer is installed to provide a completely self-contained substation which is delivered to the mine site for immediate installation.

Below, a substation now operational in a mine located in Ontario, Canada, is mounted on a two axle trailer and features a 7.5MVA, 25/5kV transformer, 25kV incoming SF6 breaker and a switch house with three 5kV breaker feeders.



Above, a substation mounted on a standard two axle trailer features a 7.5MVA, 25/7.2kV transformer, incoming vacuum breaker and three 8kV vacuum breaker feeders. Four of these substations are in operation at 4200 meter elevation open-pit mine in Peru, South America.



The above compact, skid-mounted unit is used in an open-pit mine in Alberta, Canada. It incorporates an insulated, walk-in switch house and a 5MVA, 15kV to 4.16kV transformer.

### FEATURES / BENEFITS

- Trailer or skid-mounted for easy transportation / mobility
- Insulated switch house for extreme climates
- Numerous cable coupler ratings
- Custom-designed to specification
- Modular switchgear assembly allows for possible future modification / expansion