

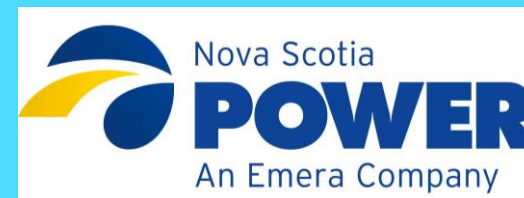


# Providing Innovative Power Solutions for a Resilient and Reliable Energy Transition

MAKING POWER RELIABLE FOR:



**Teck**



## CASE STUDY

# Largest Dynamic Voltage Restorer (DVR) Project

## CUSTOMER

Large Canadian Utility

## DESCRIPTION

Turn-key project to provide uninterruptible power to large manufacturer



### → THE PROBLEM

Several voltage sags each year on the utility network results in \$M lost in scrap products and downtime.

### → THE SOLUTION

A high-efficient ultracapacitor-based UPS that can react within a few milliseconds to island the load, ensuring seamless power and operation.

### → THE RESULTS

The projected payback period is < 5 years. The local regulator changed the PQ requirements to allow installations to transmission customers.

## CASE STUDY

# STATCOM Solution for Mining Equipment

## CUSTOMER

Large Canadian Mining Company

## DESCRIPTION

Turn-key delivery for mobile STATCOM solution in difficult environment



### → THE PROBLEM

Interruptions in operation of large mobile shovels used in open pit mines. The loss of ore and sales due to downtime. Changing operational parameter.

### → THE SOLUTION

Highly dynamic 3MVA mobile STATCOM solution that is mounted on the shovel and automatically adapts to various network conditions.

### → THE RESULTS

Customer benefits are immediate. The mine operates 25 shovels in the area. The solution is intended to be used as a standard.

## CASE STUDY

# Fast-switching BESS Solution

## CUSTOMER

Large Canadian automotive manufacturer with multiple locations

## DESCRIPTION

BESS with ultra fast islanding capabilities



### → THE PROBLEM

Requirements for ultra-fast-switching energy storage solutions due to the grid capacity constrains and need for continuous operations

### → THE SOLUTION

Three turn-key energy storage solutions with thyristor transfer switch and MSC  
6 MWh / 3 MW  
3.5 MWh / 1.75 MW  
and 8 MWh / 4 MW

### → THE RESULTS

The projected payback period is < 4 years and is based on peak avoidance, additional revenue through DR and OR.

## CASE STUDY

# Charging Solutions for Large Industrial Equipment

## CUSTOMER

Large Canadian manufacturer of electric mining vehicles

## DESCRIPTION

Custom MW DC-Fast Charging Solution



### → THE PROBLEM

Electrification of a mining vehicles and boring machines. The cost and hazards of ventilation systems for diesel exhaust in underground mining.

### → THE SOLUTION

Complete DC charging network with above ground stations and multiple single 1.5 MW DC Fast-chargers with integrated energy storage and solar for heavy duty equipment

### → THE RESULTS

Partnering with vehicle manufacturer to deliver complete solution consisting of 35 Units **Delivered in 2028.** Turn-key project \$50M+