

# EV SCHOOL BUS REPOWERED SOLUTION

## OVERVIEW

There are around 50,000 school buses in use within Canada. The Canadian Electric School Bus Alliance (CESBA) aims to secure government policy commitments that will enable all Canadian school bus fleets to transition from diesel to electric power by 2040.

Noble Northern's EV repowered solution will transform your diesel school buses into zero-emission electric vehicles reaching completion within two weeks by existing fleet mechanics with no modifications to the chassis frame.

## SPECIFICATIONS

### BATTERY

3 x 35.1kWh C Pack BC3 with 173Ah cells

### MOTOR

SUMO MD, PMVR HV3300-Motor

### RANGE

Average 110 KMs on a Single Charge  
Onboard Level 2 Charger



# VTEC

[www.noblenorthern.com](http://www.noblenorthern.com)

# EV SCHOOL BUS REPOWERED PROCESS



Total time: 7-10 Days

**1 REMOVE DIESEL POWERTRAIN**  
Motor, transmission, driveshaft,  
radiator, exhaust, fuel tank enclosure  
2 MECHANICS, 1-2 DAYS

**2 CLEAN AND PREP FRAME FOR NEW ADDITIONS**  
2 MECHANICS, 1 DAY

**3 INSTALL AIR COMPRESSOR, CABIN HEATER, BATTERY THERMAL MANAGEMENT SYSTEM IN FUEL TANK ENCLOSURE**  
2 MECHANICS, 1 DAY

**4 INSTALL NEW ELECTRIC STEERING PUMP AND MOUNTING SYSTEM**  
2 MECHANICS, 1 DAY

**5 INSTALL NEW MOUNTS IN ENGINE BAY. DROP IN NOBLE NORTHERN SUPPLIED PRE-FABRICATED POWER STATION**  
2 MECHANICS, 1-2 DAYS

**6 FINAL CONNECTIONS AND TESTING**  
2 MECHANICS, 1-2 DAYS



IN PARTNERSHIP WITH:



**RRC**  
POLYTECH

The Canadian Shield  
Foundation



SEVEN OAKS  
SCHOOL DIVISION  
community begins here

Manitoba Environment and Climate  
provided funding for this project

