

REGENergy for Electric School Buses

Better cabin heat and defrost with less dependence on battery-powered heating.



TURNING MOTION
INTO A WARMER RIDE.

SAFER
CLEANER
BRIGHTER
TOMORROWS



Vehicle Motion



REGENergy LHG



Hot Coolant



Cabin Heat & Defrost

! THE CHALLENGE

- EV school buses can be notoriously cold in winter.
- Poor cabin heat and windshield defrost leave drivers, students, and parents unhappy.
- Relying entirely on battery-powered heating increases battery draw.



THE SOLUTION

1. Better cabin heat and windshield defrost in cold-weather operation.
2. Converts vehicle motion into useful supplemental heat, reducing total dependence on battery-powered heating and helping preserve battery energy for driving.



No Flame



No Fuel



No Exhaust



Preserves Battery
Energy for Driving



What It Does

The REGENergy Liquid Heat Generator (LHG) adds supplemental heat to the vehicle's coolant circuit to improve cabin comfort and window defrost, while reducing reliance on battery-powered heating.

Production Applications & Key Advantages

REGENergy kits are tailored to specific bus platforms and designed to deliver better cabin heat and defrost with less dependence on battery-powered heating.

Current & Developed Applications

PROVEN PLATFORMS. EXPANDING OPPORTUNITIES.

IC Electric CE – Kit #1610



Current production application |
2021–2025 IC Electric CE Series Type C bus

Blue Bird Vision EV – Kit #1620



Current production application |
2019–2025 Blue Bird Vision Electric Type C bus

Collins Lightning eMotors Type A



Developed application | 2023–2024
Collins Lightning eMotors EV Type A bus | available for existing fleets / special-order interest

Product Specifications & Key Advantages

SIMPLE. RELIABLE. EFFECTIVE.



Up to 14 kW (47,800 BTU/hr.)
supplemental heat



No fuel source required



Fully automatic operation
with independent ECU



No exhaust pipe required



Tailored installation kit
for each application



No regular LHG maintenance



Supports cabin heat and window defrost



Why School Fleets Consider REGENergy

- ✓ Improves cabin heat and windshield defrost in cold weather
- ✓ Reduces dependence on battery-powered heating
- ✓ Helps preserve battery energy for driving
- ✓ Provides a clean supplemental heat source with no flame, fuel, or exhaust.



Field & Order Highlights

- ✓ Already adopted by many school districts in Michigan and the mid-Atlantic
- ✓ Growing interest from additional school districts for EV school-bus heating applications
- ✓ Fleet and early adopter pricing available



Looking Beyond Today's Platforms

Current production kits are available for IC Electric CE and Blue Bird Vision EV school buses. REGENergy has also been developed for the Collins Lightning eMotors Type A platform, and additional EV applications can be pursued where fleet demand justifies development.

CLEANER BUSES. STRONGER COMMUNITIES.