

# Power Sync

The intelligent block heater controller



# About Us

PowerSync block heater controller was invented in 2009 for school bus fleets.

## Background

- 4 years of testing and development:
  - 2013 Rossville school installed the first proto-type unit.
  - 2019 Rossville school undated to our newest PowerSync design with BACnet over IP.
- PowerSync was under a license agreement from 2017 – 2019.
- Utility Patent was awarded in 2018
- PowerSync is being used on several different fleet types.
  - Route truck
  - Waste hauling
  - Trucking
  - School bus

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# PowerSync Intelligence

PowerSync was designed to get the maximum amount of savings.

## PowerSync Features:

- Patented controls algorithm's – PowerSync can decide when the best time to energize block heater circuits.
- Fleet scheduling – Whether you have one start time or four PowerSync has you covered.
- Multi-Vehicle – Patented multi-vehicle controller. Up to 42 trucks or buses in one single panel.
- Soft start – PowerSync brings circuits on easy to avoid demand charges.
- Mid Day Schedule – School bus fleet mid day schedule to increase savings.
- Remote connectivity – Ethernet, Modbus & BACnet over IP

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## Our Product

PowerSync is manufactured in the United States with brand name components you can trust.

## What's Inside?

- Schneider Electric Modicon M172 Performance Display 27 I/O's, Modbus.
- Modicon M172 Performance Plug-in Ethernet Modbus TCP.
- Schneider Electric 4 Pole, 120 Coil VAC at 50/60 Hz, 40 Amp.
- NSYPLM86VG wall-mounting enclosure polyester monobloc IP66 H847xW636xD300mm 3points lock



# Savings Examples

PowerSync intelligent block heater controller will provide years of incredible savings!

Did you know block heating could be costing your school or business up to \$450 per vehicle annually?

Now multiply that by your number of vehicles in your fleet.....The Numbers are staggering!



## Estimated Savings

### (40) Fleet Vehicle Est. Savings

- 1.25 Kw Block Heaters \$.12 kWh power cost Your cost w/o PowerSync- \$15,171 Your cost with PowerSync – \$1,026 Annual Savings – \$14,145.25

### (60) Fleet Vehicle Est. Savings

- 1.25 Kw Block Heaters \$.12 kWh power cost Your cost w/o PowerSync – \$22,757 Your cost with PowerSync- \$1,539 Annual Savings – \$21,218.25

### (80) Fleet Vehicle Est. Savings

- 1.25 Kw Block Heaters \$.12 kWh power cost Your cost w/o PowerSync – \$30,343 Your cost with PowerSync – \$2,052 Annual Savings – \$28,291.25

### (100) Fleet Vehicle Est. Savings

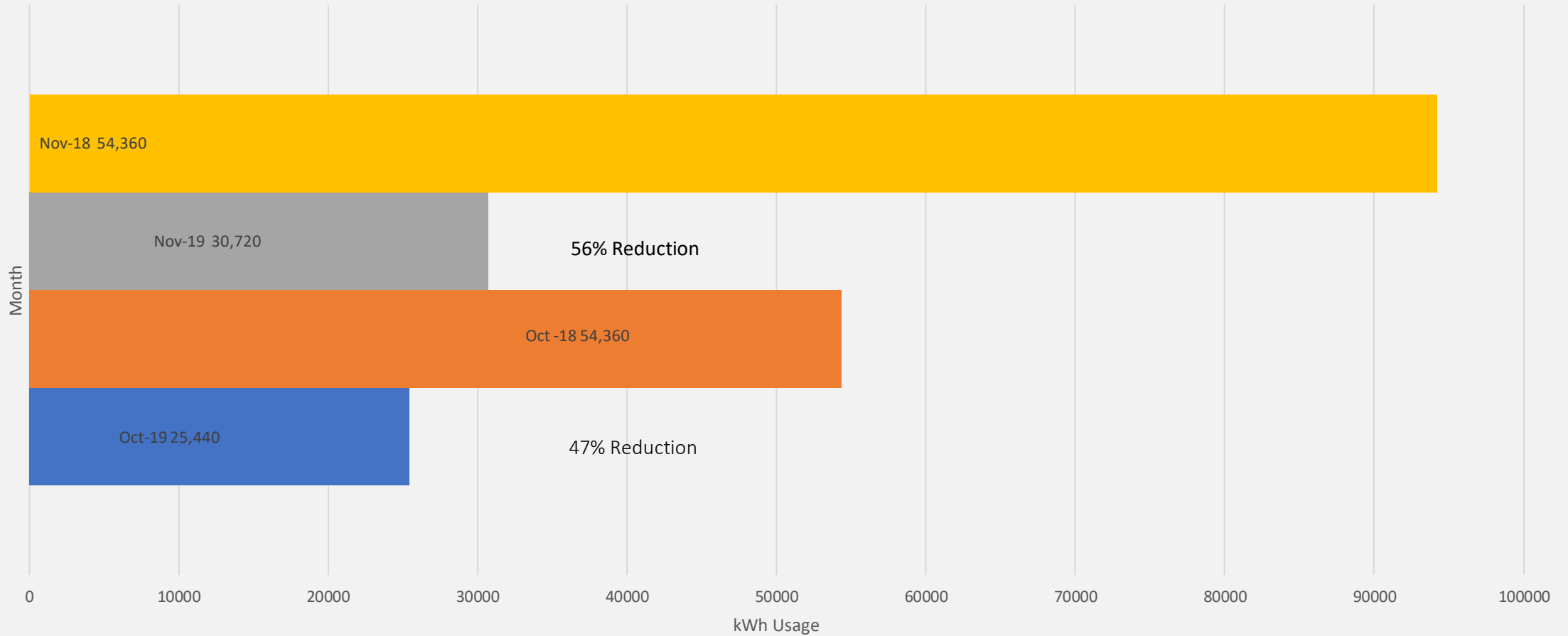
- 1.25 Kw Block Heaters \$.12 kWh power cost Your cost w/o PowerSync – \$37,929 Your cost with PowerSync – \$2,565 Annual Savings – \$35,364.25



# Lawrence Township Data



Lawrence Kwh Reduction








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## Thank You

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