

Michigan Clean Energy Bus Grant (CEBG) Program: Round 2

September 17, 2024



Today's Speakers



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ABOUT THE ELECTRIFICATION COALITION

Electrifying transportation for our economic and national security

The Electrification Coalition is a nonpartisan, nonprofit organization that develops and implements a broad set of strategies to facilitate the widespread adoption of electric vehicles to overcome the economic, public health, and national security challenges that stem from America's dependence on oil.

Electric School Buses

IN MICHIGAN





Michigan's Electric School Bus History

2017-PRESENT

2017

- Michigan Department of Environment, Great Lakes, and Energy (EGLE) opens the **Fuel Transportation**
- Seven districts jointly apply for 17 electric school buses (ESBs) through the **Michigan Association of Pupil Transportation ESB Pilot Project**

2019

- EGLE awards **\$4.2 million** to the Transportation ESB Pilot Project

2020-present

- **It's Electric! Coalition** organizes and advocates for federal and state funding and education on the health and climate benefits of ESBs



Michigan's Electric School Bus History

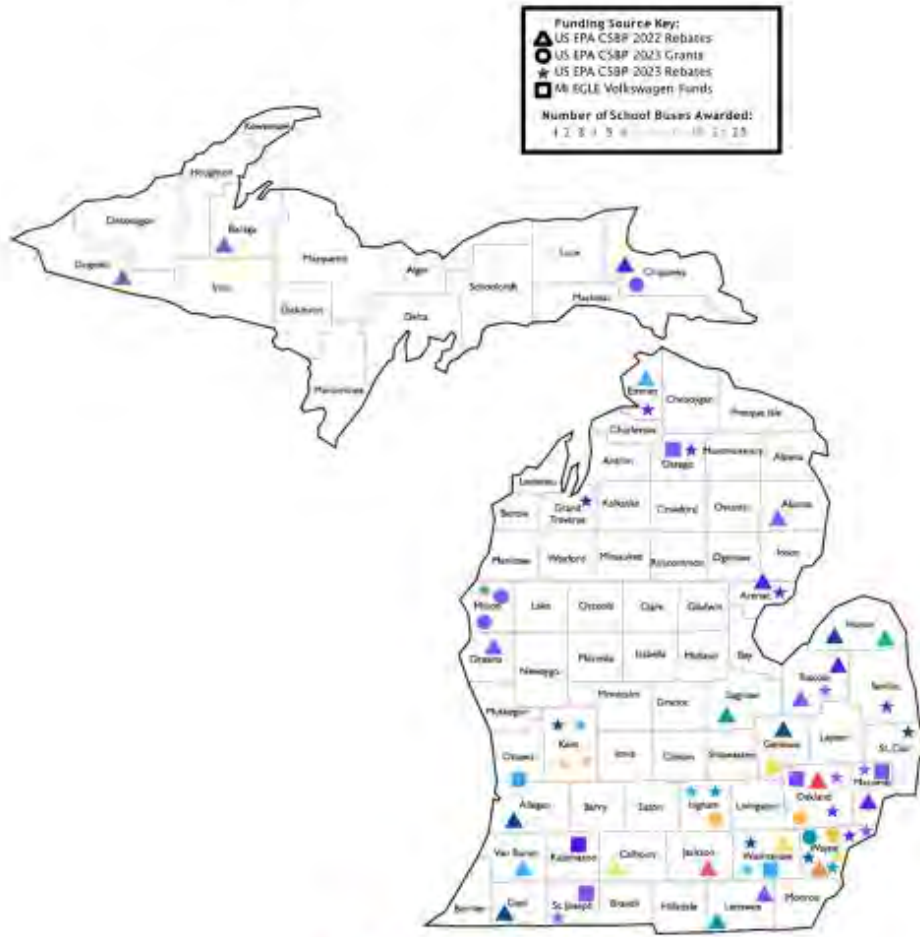
2017–PRESENT

2022–2024

- Bipartisan Infrastructure Law (BIL) establishes the **EPA Clean School Bus Program**
 - 2022 rebate: **\$54 million** for **138 ESBs** and infrastructure in 25 Michigan school districts
 - 2023 grants: **\$5.93 million** for **15 ESBs** in three school districts
 - 2023 rebate: **\$24 million** for **100 ESBs** in 27 school districts
- Senate Bills 63, 74(b) establish the **Michigan Clean School Bus Grant**
 - July 2023: Governor Whitmer's bipartisan fiscal year 2024 state budget includes **\$125 million** to help school systems transition to clean buses
 - May 2024: Round one of the application opens
 - July 2024: The Michigan Department of Education awards **\$30 million** for **114 ESBs** in 29 school districts
 - August 2024: **Round two opens!** Set to close on October 12, 2024

Michigan Electric School Buses

To date, 314 electric school buses have been awarded to serve students in 58 school districts across the state. See the following chart for the full list of school districts. School districts with an asterisk will have a full fleet of electric school buses once buses are all delivered.



Funding Source Key:
 ▲ US EPA CSBP 2022 Rebates
 ★ US EPA CSBP 2023 Grants
 ▲ US EPA CSBP 2023 Rebates
 ★ MI EGLE Volkswagen Funds

Number of School Buses Awarded:
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25



Funding Source	School District	# Buses	County
▲	Alcona Community Schools	3	Alcona
★	Allen Parks Public School	5	Wayne
▲	Anchor Bay School District	3	St. Clair
▲	Ann Arbor Public Schools	4	Washtenaw
▲	Ann Arbor Public Schools	4	Washtenaw
▲	Arroyo Area Schools	1	Macomb
▲	Au Gres-Sims	1	Antrim
★	Au Gres-Sims	1	Antrim
▲	Beecher Community School District	3	Genesee
▲	Belleville Area School District	2	Gogebic
▲	Brimley Area Schools	2	Chippewa
▲	Britton Deerfield Schools	5	Lawrence
▲	Brown City Community Schools	1	Saginaw
▲	Clax, City	2	Tuscola
▲	Cassopolis Public Schools	3	Cass
▲	Chesaning Union Schools	3	Saginaw
▲	Chippewa Valley Schools	2	Macomb
★	Comstock Public Schools	1	Kent
▲	Dearborn City	18	Wayne
▲	Detroit Public Schools Community District	15	Wayne
▲	Gaylord Community Schools	2	Ontonagon
▲	Grand Rapids Public Schools	15	Kent
▲	Harbor Beach Community Schools	3	Huron
▲	Hartford Public Schools	4	Van Buren
▲	Hooper Community School Districts	7	Calhoun
▲	Hopkins Public Schools	3	Allegan
▲	Jackson Public Schools	23	Jackson
▲	Kalamazoo Public Schools	1	Kalamazoo
▲	Kent ISD	15	Kent
▲	Kentwood Public Schools	4	Kent
▲	L'Anse Aux Lions	3	Baraga
▲	Lansing Public School District	10	Ingham
▲	Lansing Public School District	5	Ingham
▲	Ludington Area School District	6	Mason
▲	Mason County Schools (Central Eastern)	2	Mason
▲	Mayville Community School District	2	Tuscola
★	Northville Public Schools	1	Wayne
▲	O'Leary Charter School	1	Chippewa
▲	Oxford Community Schools	1	Oakland
▲	Pellston Public Schools*	4	Emmet
★	Pellston Public Schools*	1	Emmet
▲	Peruwater Public School District	2	Oceana
▲	Port Huron City School District*	20	Oakland
▲	Port Huron City School District*	15	Oakland
▲	Redford Union Schools, Dist. No. 1	5	Wayne
▲	Roseville Community Schools	2	Macomb
★	Saline Area Schools	3	Washtenaw
▲	Sand Creek Community Schools	2	Lawrence
▲	School District of the City of Flint	10	Genesee
★	Southfield Public School District	1	Oakland
▲	Stockbridge Community Schools	4	Ingham
★	The Dearborn Academy	3	Wayne
▲	Three Rivers Community Schools	2	St. Joseph
▲	Three Rivers Community Schools	2	St. Joseph
★	Traverse City Area Public Schools	1	Grand Traverse
▲	Trenton Public Schools	10	Wayne
▲	Trivy School District	2	Oakland
▲	Udly Community Schools	6	Huron
▲	Unionville-Sebewaing Area School District	1	Tuscola
★	Vanderbilt Area Schools	1	Oshtemo
▲	West Shore Educational Service District	2	Mason
★	Woodhaven-Brownstown School District	2	Wayne
▲	Ypsilanti Community Schools	10	Washtenaw
▲	Zeland Public Schools	4	Allegan/Ottawa

Total Buses = 314
 US EPA CSBP 2022 Rebates = 134
 US EPA CSBP 2023 Grants = 66
 US EPA CSBP 2023 Rebates = 97
 MI EGLE Volkswagen Funds = 17

Total School Districts = 58
 US EPA CSBP 2022 Rebates = 24
 US EPA CSBP 2023 Grants = 8
 US EPA CSBP 2023 Rebates = 25
 MI EGLE Volkswagen Funds = 7



Last Updated: June 17, 2024

It's Electric!

MICHIGAN'S ELECTRIC SCHOOL BUS COALITION



MI Clean Bus Energy Grant 2024- Round 2

\$125 million for clean school buses: 74(b) Clean Bus Energy Grant

- Round 1: \$30 million was awarded to 29 school districts (next slide)
- Michigan Department of Education (MDE), in collaboration with EGLE, wants your school district to have newer, cleaner school buses.
 - Reduce diesel emissions
 - Improve air quality & public health
 - Prioritize funding for environmental justice communities across Michigan
 - Incentivize the utilization of technologies that have the greatest emissions reduction to meet the state's climate goals
- Funds cover incremental costs towards the purchase of clean school buses
 - Zero-tailpipe emission electric school buses, charging stations and associated infrastructure
 - Propane school buses
 - Natural gas school buses

MI Clean Bus Energy Grant 2024- Round 1 Awards

Districts and intermediate school districts awarded grant funding for Round 1, CBEG:

- Allen Park Public Schools
- Allendale Public Schools
- Alpena Public Schools
- Anchor Bay School District
- Ann Arbor Public Schools
- Britton-Deerfield Schools
- Dearborn Public Schools
- Detroit Public Schools Community District
- Grand Rapids Public Schools
- Hazel Park Schools
- Kalkaska Public Schools
- Kent Intermediate School District
- Kentwood Public Schools
- Lansing Public School District
- Livonia Public Schools
- Ludington Area Schools
- Manchester Community Schools
- Mason County Eastern District
- New Haven Community Schools
- Pellston Public School
- Saline Area Schools
- Stockbridge Community Schools
- Three Rivers Community Schools
- Troy School District
- Ubly Community Schools
- Van Buren Public Schools
- Vanderbilt Area School
- West Shore Educational Service District
- Woodhaven-Brownstown School District

MI Clean Bus Energy Grant 2024- Round 2

- Open NOW through **8:00 PM (ET) October 12, 2024**
- NexSys application via MILogin portal
- All Michigan Public School Districts are encouraged to apply
 - All school districts are eligible for funding at the following levels:
 - Minimum of 70% of the total cost of an ESB, infrastructure and charging station; **OR**
 - 25% of the total cost of a propane or CNG school bus
 - Additional incremental funding based on Justice40 prioritization can boost funding levels from the minimum up to:
 - 90% of the total cost of an ESB, infrastructure and charging station; **OR**
 - 40% of the total cost of a propane or CNG school bus

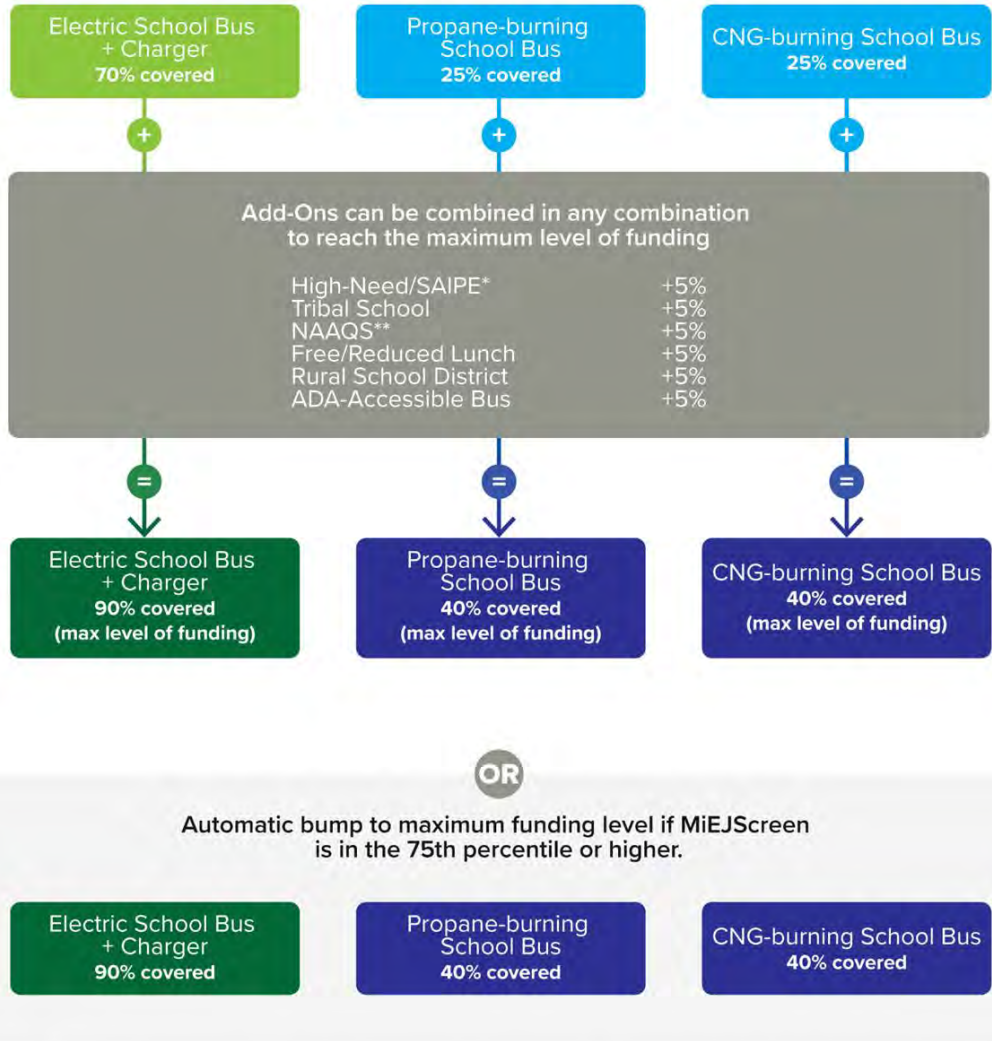
MI Clean Bus Energy Grant 2024- Round 2

Justice40: A minimum of 40% (\$50 million) of the total funds will be dedicated to funding prioritized districts

All new school bus types are eligible for boosts in funding above the baseline based on the following prioritization criteria:

- High-need school districts & low-income areas
 - Small Area Income and Poverty Estimates (SAIPE)
 - Free/reduced lunch
- Rural school districts
- Bureau of Indian Affairs-funded schools/School districts serving children residing on tribal lands
- Nonattainment/maintenance for a NAAQS criteria pollutant
- ADA accessible bus
- MI EJScreen*

Michigan School Districts' Funding Percentages by School Bus Type



*SAIPE (Small Area Income and Poverty Estimates): provides estimates of income and poverty levels for all states and identifies levels of poverty among school age children in every school district based on U.S. Census Bureau data.
 **NAAQS (National Ambient Air Quality Standards): standards on six key pollutants established by the U.S. EPA to safeguard public health.

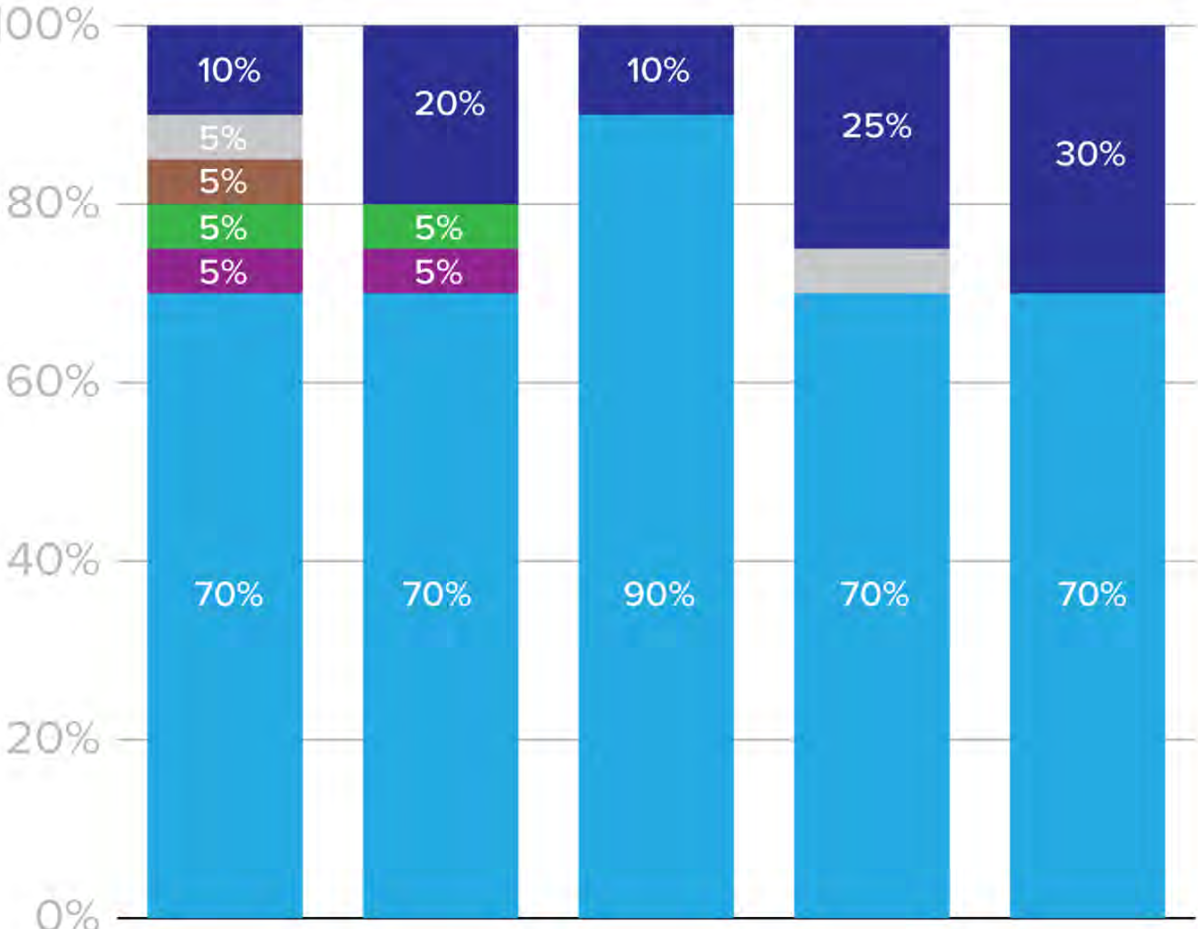
Criteria	Definition	Additional Funding Percentage
High-need school districts + low-income areas (SAIPE)*	School districts listed in the Small Area Income and Poverty Estimates (SAIPE) School District Estimates for 2022 as having 15% or more students living in poverty.	5%
High-need school districts + low-income areas (Free and Reduced Lunch)*	School districts with the percentage of students receiving free and reduced lunch for the 2022-2023 school year greater than or equal to 70%.	5%
Rural school districts	Limited to school districts identified with locale codes "42-Rural: Distant" or "43-Rural: Remote" by the National Center for Education Statistics (NCES).	5%
Bureau of Indian Affairs-funded school districts	School districts that are federally funded through the Bureau of Indian Affairs.	5%
Section 7703(b)(1) of Title 20-supported school districts	School districts that receive basic support payments under section 7703(b)(1) of Title 20 for children who reside on Indian land.	5%
ADA-accessible school bus procurement	School districts wishing to utilize funding to purchase an ADA-accessible school bus.	5%
A NAAQS** nonattainment or maintenance status	School districts residing in a county currently designated as in nonattainment or maintenance status for NAAQS.	5%
MiEJScreen	School districts servicing census tracts with MiEJScreen score percentiles of 75th and higher.	20%

*School districts can receive up to 10% of additional funding (5% for SAIPE and 5% for free and reduced lunch eligibility) under the "High-need school districts + low-income area" criterion.

**NAAQS stands for 'National Ambient Air Quality Standards'.

Categories	Environmental Exposure	Environmental Effects	Sensitive Populations	Socioeconomic Factors
Indicators	NATA Air Toxics Cancer Risk NATA Respiratory Hazard Index NATA Diesel Particulate Matter Particulate Matter (PM _{2.5}) Ozone Traffic Density	Proximity to Cleanup Sites Proximity to Hazardous Waste Facilities Impaired Water Bodies Proximity to Solid waste Sites and Facilities Lead Paint Indicator Proximity to RMP Sites Wastewater Discharge Indicator	Asthma Cardiovascular Disease Low Birth Weight Infants Blood Lead Level Life Expectancy	Low Income Population Black, Indigenous, People of Color Population Educational Attainment Linguistic Isolation Population Under Age 5 Population Over Age 64 Unemployment Housing Burden
Sub Scores	<p align="center">Environmental Conditions</p> <p align="center">(Average percentile of Environmental Exposure indicators + 0.5 x average percentile of Environmental Effects indicators)</p> <p align="center"><u>1.5</u></p>		<p align="center">Population Characteristics</p> <p align="center">(Average percentile of Sensitive Population indicators + average percentile of Socioeconomic Factor indicators)</p> <p align="center"><u>2</u></p>	
Score	<p align="center">Final Composite Score = Environmental Conditions score x Population Characteristics score</p> <p align="center">MiEJScreen Score</p>			

Funding scenarios for ESB's



- School district funds
- Rural district
- ADA-Accessible School Buses
- SAIPE-Eligible
- Tribal school
- Baseline funding

Funding scenarios for all bus types

Fuel	Non-Prioritized District	Prioritized District	School districts servicing census tracts with MiEJScreen score percentiles of 75th and higher
Electric	70%	75-90%*	90%***
Propane	25%	30-40%**	40%***
CNG	25%	30-40%**	40%***

*Prioritized school districts are eligible to receive up to 90% of funding if seeking ESBs. Please see J. Priority Criteria of Section 74(b), Clean Bus Energy Grant for more information.

**Prioritized school districts are eligible to receive up to 40% of funding if seeking propane or CNG. Please see J. Priority Criteria of Section 74(b), Clean Bus Energy Grant for more information.

***School districts servicing census tracts with MiEJScreen score percentiles of 75th and higher are eligible to receive the maximum eligible funding.

MI Clean Bus Energy Grant 2024- Round 2

Eligible Vehicles for REPLACEMENT:

- Diesel school buses **EMY 2010** and older are eligible for replacement via scrappage. See the program guide for scrappage requirements.
- Diesel school buses **EMY 2011** and newer are eligible for replacement via auction, sale, or donation.

Requirements for REPLACEMENT:

- **Ownership:**
 - The bus has been owned and operated by the entity for at least 24 months immediately prior to the date of application.
- **Function:**
 - The buses must be “green tagged” by the state for operation.

MI Clean Bus Energy Grant 2024- Round 2

Program requirements:

Minimum # of Buses: 1

Maximum # of Buses: 10 or 50% of your fleet, whichever is fewer

New buses are expected to be:

- Same type (Type A-D)
- Similar gross weight rating
- Ownership; and
- Serve the same geographic area compared to the replacement bus.

**IF this is not the case, email MDE and inquire to have a conversation about your application.*

- Be prepared to justify any differences given the aim of this program is to improve air quality by replacing the oldest, dirtiest buses from the communities most deeply impacted by environmental justice.

MDE wants to work with you to achieve these goals!

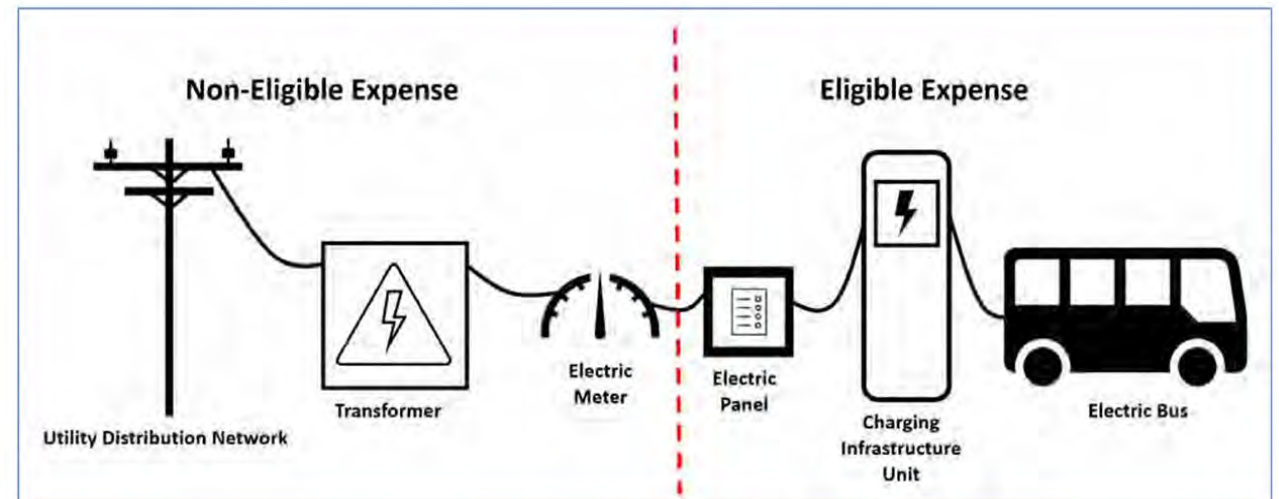
MI Clean Bus Energy Grant 2024- Round 2

What's covered?

- ESB, charging station, infrastructure
 - Infrastructure costs are defined as any upgrades required for charging stations from the electric meter to the bus, including but not limited to the electric panel
- Propane/CNG bus only

Program reimbursement/awards:

- Upfront* after all required documentation has been received and the project has been approved by MDE
- Costs incurred from the grant administration and vehicle disabling are not eligible for reimbursement



Appendix A: Due at time of application.

2024 MI Clean School Bus Program School Board Awareness Certification

By signing, I certify that I am an Authorized Representative for *(school board name)* and that *(Applicant Name)* has made us aware that *(Applicant Name)* is applying for the 2024 MI Clean School Bus Program funding for the *(School District Name)*. I also certify, in discussions with *(Applicant Name)*, we have discussed the number of buses for replacement, the fuel type of the new buses, and which party will own the buses.

School Board Authorized Representative

School Board Authorized Representative Name (Print) Authorized Representative Signature Authorized

Representative Title Phone Number Email

School District Authorized Representative

School District Authorized Representative Name (Print) Authorized Representative Signature Authorized

Representative Title Phone Number Email

Applicant Authorized Representative

Applicant Authorized Representative Name (Print) Authorized Representative Signature Authorized

Representative Title Phone Number Email

Appendix B: Due at time of application.

2024 MI Clean School Bus Program Utilities Awareness Certification

By signing, I certify that I am an Authorized Representative for *(the utility company)* and that *(Applicant Name)* has made us aware that *(Applicant Name)* is applying for the 2024 MI Clean School Bus Program funding for the *(School District Name)*. I also certify, in discussions with *(Applicant Name)*, we have discussed the number of buses for replacement, the fuel type of the new buses, and infrastructure needs.

Utilities Authorized Representative

Utilities Authorized Representative Name (Print) Authorized Representative Signature Authorized

Representative Title Phone Number Email

School District Authorized Representative

School District Authorized Representative Name (Print) Authorized Representative Signature Authorized

Representative Title Phone Number Email

Applicant Authorized Representative

Applicant Authorized Representative Name (Print) Authorized Representative Signature Authorized

Representative Title Phone Number Email

Appendix C: Due at project completion: 2 years after project award announcement.

2024 MI Clean School Bus Program Scrappage Statement

Vehicle make: Engine make:
Vehicle model: Engine model:
Vehicle model year: Engine model year: VIN: Engine horsepower: Odometer/usage
meter reading: Engine IS or serial number:

I certify that on , the above engine and chassis were permanently disabled. Disabling the engine consisted of drilling a three-inch hole in the engine block or some other approved scrappage method. Disabling the chassis consisted of cutting completely through the frame/frame-rails on each side of the vehicle/equipment at a point located between the front and rear ales or some other approved scrappage method. The following required digital photos of the disabled engine and chassis are attached: Side profile of the vehicle, prior to disabling; VIN tag or equipment serial number; Engine label (showing serial number, engine family number, and engine model year); Engine block, prior to hole; Engine block, after hole; and cut frame rails.

MDE Grantee/Subgrantee Authorized Representative (print name): MDE

Grantee/Subgrantee Authorized Representative (signature):

Vehicle owner's name:
Vehicle owner's address:
Vehicle owner's signature:

Date:

Dismantler/Scrapper Name:
Dismantler/Scrapper Address:
Dismantler/Scrapper Signature:

Date:

Appendix D: Due once purchase agreement has been placed.

2024 MI Clean School Bus Program Service Level Agreement

By signing, I certify that I (*the school district*) have a service agreement that covers products' operations and maintenance with the (*school bus dealer/manufacturer*) and (*charging dealer/manufacturer*).

Parameters of this agreement will include for school bus dealer/manufacturers:

- Length of agreement
 - Should at least match the length of maintenance warranty
- Service response time
 - Should be an amount of time that both the district and dealer/manufacturers are comfortable with. This will cover both a response time to have a technician onsite or virtually diagnose the issue, as well as a time frame to have an issue in service for a repair.
- Uptime guarantee
 - Specify how long a bus may be down or out of service for a reason outside of an accident. If the bus is out of commission for longer than this time, the dealer will provide the district with a replacement bus or pay a pre-specified daily penalty.
- Training
 - What level of training will the dealer or manufacturer provide for the fleet operators' drivers, mechanics and others.

Parameters of this agreement will include for charging dealer/manufacturers:

- Length of agreement
 - Should be up to five years with a termination clause for poor performance.
- Service response time
 - Should cover 4 levels of response time:
 - Emergency service
 - Scheduled service
 - Ongoing Maintenance
 - Firmware updates
- Uptime guarantee
 - Should stipulate an uptime of greater than 97% (the minimum uptime requirement recommended by the Federal Highway Administration's National Electric Vehicle Infrastructure Program). Uptime is the amount of time the charger is available for use outside of scheduled maintenance and repair.
- Training
 - Should cover charger operations, maintenance and troubleshooting, as well as any portals or dashboards used to collect and display data on charger performance.

* Not necessary for application submission

MI Clean Bus Energy Grant 2024- Round 2

Application requirements:

- MI Login
- NexSys portal account

Forms to be submitted:

- School Board Awareness Certificate
- Utilities Awareness Certification
- Service Level Agreement
- Scrappage
- Competitive Bid Proposal from MSBO
(not a form- upload to application)

Application deadline:

8:00 PM ET October 12, 2024

Selection:

- Applications will be reviewed and selected by MDE.
- If funding is fully subscribed, then a lottery will be held. If not, future rounds will be held until funds are exhausted.

Award announcements & payment timeline:

- November 2024

MI Clean Bus Energy Grant 2024- Round 2

In **CONCLUSION:**

- Simple, straightforward application
- Funds are STACKABLE with federal & utility programs
- Prioritization- Check the list!
- Benefits of ESBs
- Don't delay!
- Resources are available: **MAPT**
 - Weekly office hours: Fridays from 9:30 - 10:30 AM
 - Webinars
 - FAQ document
 - NexSys Job Aid, Applicant checklist
 - Email questions to: MDE-CleanBusEnergy@michigan.gov



ENVIRONMENTAL LAW
& POLICY CENTER

It's Electric!



Michigan's Electric School Bus Coalition

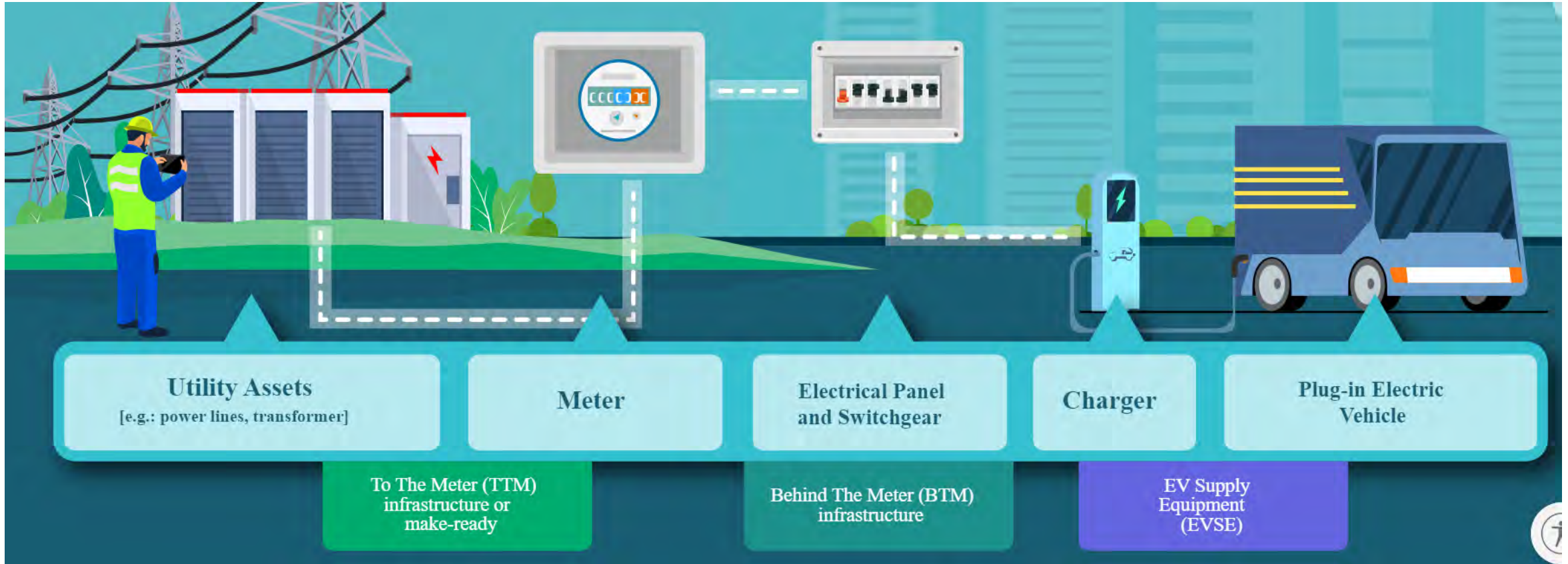
Transportation Electrification

Grid Considerations

Jeff Myrom, Director TEPs

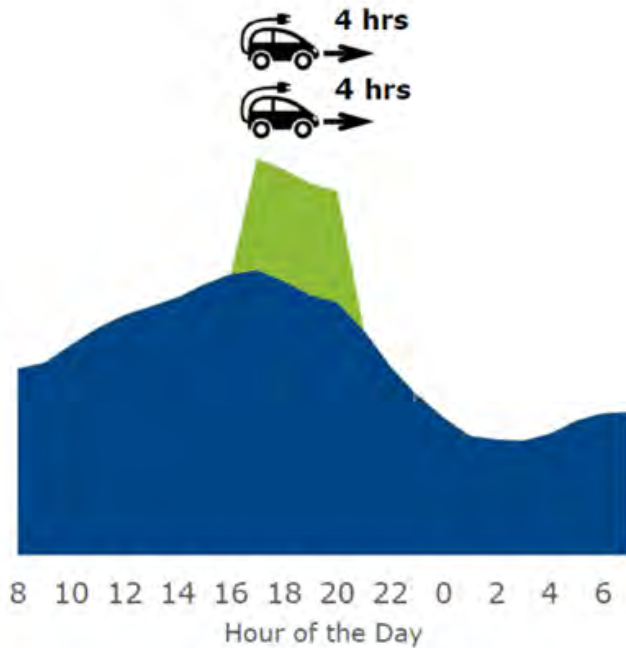


Upgrades are site specific



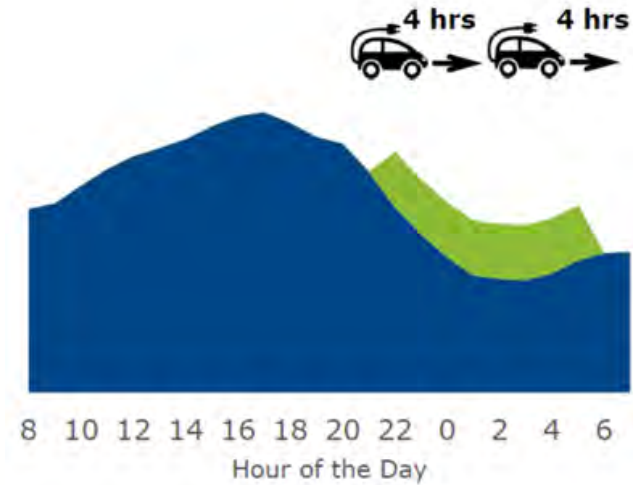
Load growth at the right time

On-peak load growth
can increase costs
& impact reliability

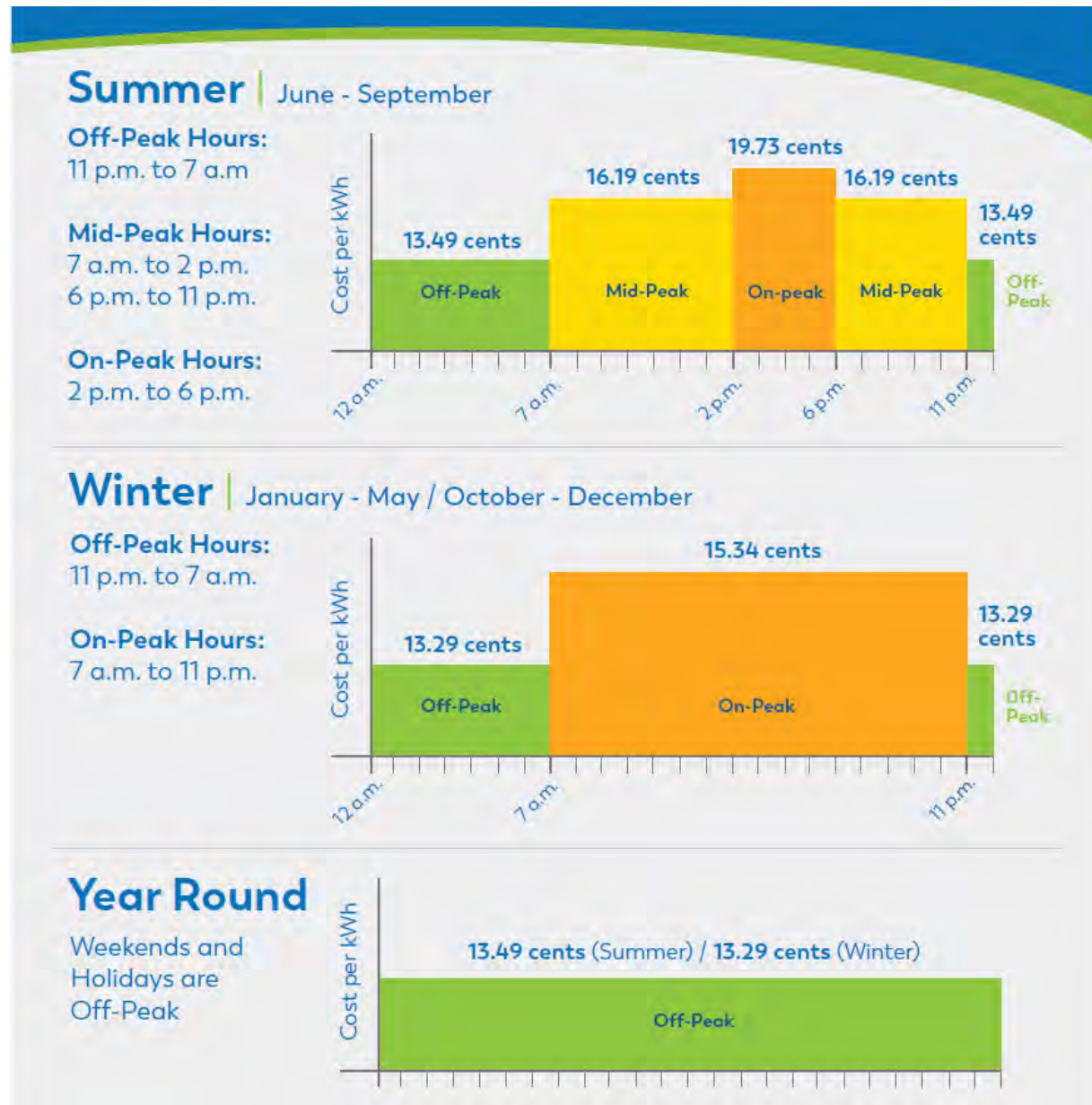


VS

Off-peak load growth
optimizes the grid &
benefits all customers!



Time of Use Rates (TOU) Save \$



Rebates Available

Level 2 (AC)

- ✓ 7 kW to 19 kW
- ✓ Lower cost
- ✓ Can be 8+ hour charge times
- ✓ \$7,500 rebate per 2 port



Direct Current (DC)

- ✓ 20 kW to 50 kW
- ✓ Higher cost
- ✓ Can be 4+ hours charge times
- ✓ \$15,000 rebate per port





Thank you!

Program Information: <http://www.ConsumersEnergy.com/EV>

Fleet Specific Link: [PowerMIFleet™ | Consumers Energy](#)

Stephen C. Seelye

PELLSTON PUBLIC SCHOOLS





ENERGY SAVINGS NOW

A PROGRAM BY THE MICHIGAN
LEAGUE OF CONSERVATION VOTERS

Thank you!

Stephen C. Seelye
Superintendent
sseelye@pellstonschools.org

WORLD RESOURCES INSTITUTE
Resources

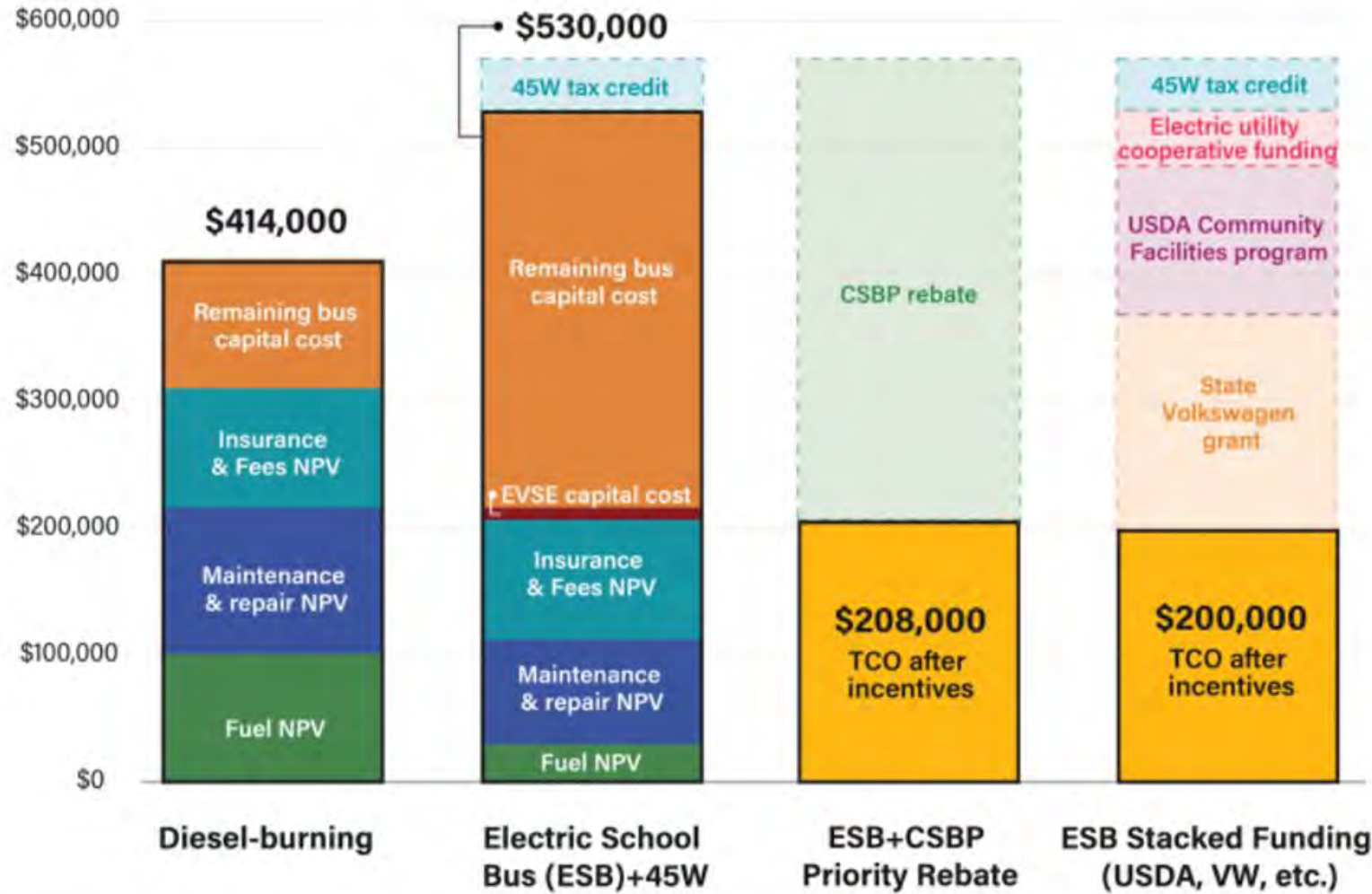


TOOLS AND RESOURCES

- WRI: [All About Total Cost of Ownership \(TCO\) for Electric School Buses](#)
- WRI: [All About Electric School Bus Tax Credits](#)
 - [Federal Electric School Bus Tax Credits 101](#) - webinar slides and recording
- WRI: [All About the Clean School Bus Program](#)
- WRI: [FAQs on Electric School Buses](#)
- WRI: [Step-by-step guide for fleet electrification](#)
- WRI: [Electric School Bus Data Dashboard](#),
- WRI: [Power Planner for Electric School Bus Deployment](#),
- WRI: [Electric School Bus U.S. Market Study and Buyer's Guide: A Resource for School Bus Operators Pursuing Fleet Electrification](#)
- WRI: [Office Hours - Talk To an Expert](#)
- WRI: [School District Stories - Resource Library](#)
- NREL Fleet Advisory Services: [Contact Us: Joint Office Concierge](#) · [Joint Office of Energy and Transportation](#) or contact cleanschoolbusta@nrel.gov



BUS TOTAL COST OF OWNERSHIP (TCO)



After incentives, the TCO for electric school buses can be **hundreds of thousands of dollars less** than the TCO of a diesel-burning school bus.

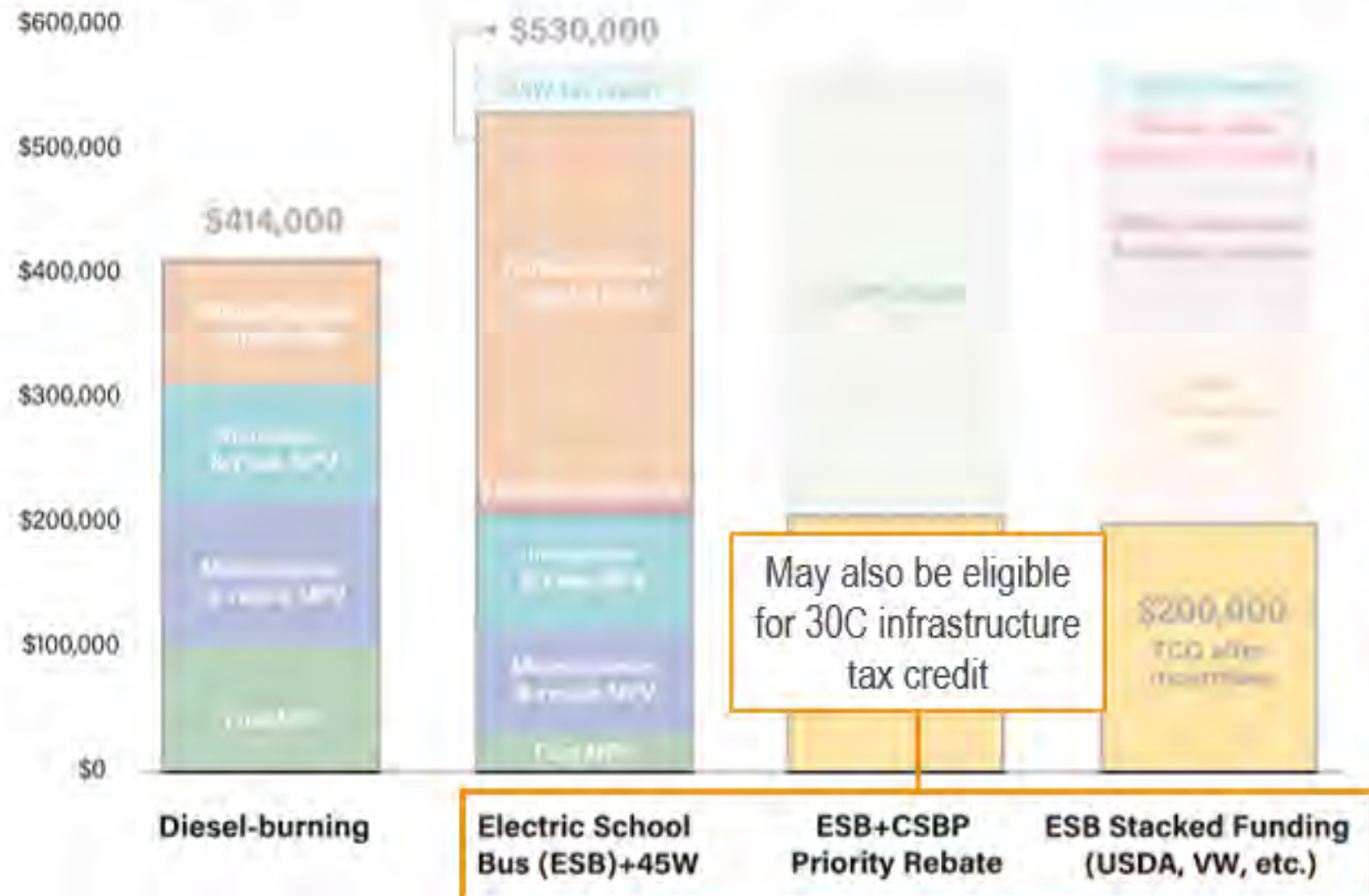
Notes: NPV= net present value. USDA= U.S. Department of Agriculture.

Source: WRI.



WORLD RESOURCES INSTITUTE

BUS TOTAL COST OF OWNERSHIP (TCO)



After incentives, the TCO for electric school buses can be **hundreds of thousands of dollars less** than the TCO of a diesel-burning school bus.

Source: [WRI's Electric School Bus Initiative – All About Total Cost of Ownership for Electric School Buses](#);

Note: NPV = net present value; USDA = U.S. Department of Agriculture; ESB Stacked Funding is illustrative real-world example from Knox County, MO



Electrification Coalition

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