



# **EPA CLEAN SCHOOL BUS**

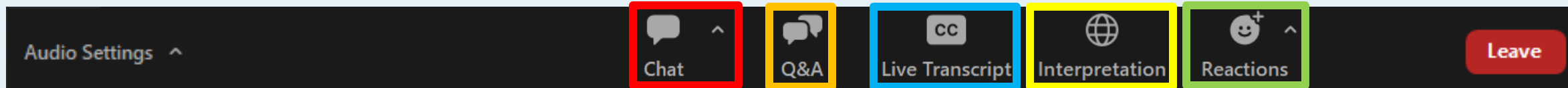
**2024 CSB Rebates: Panel with Program Selectees  
and Utilities**

**November 7, 2024 @ 1 PM ET**

Office of Transportation and Air Quality

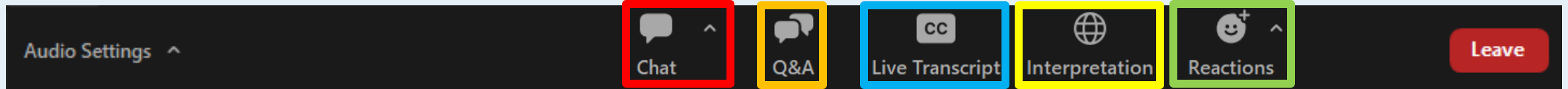
U.S. Environmental Protection Agency

# Zoom Webinar Logistics



- **This presentation is being recorded.** The slides and recording will be posted to [epa.gov/cleanschoolbus](https://epa.gov/cleanschoolbus) as soon as they are processed for posting.
- **All attendees are in listen-only mode.** Audio is available through your computer speakers or by phone. The presenter will ask you to come off mute if applicable.
- **Live transcription:** Live captioning is available by clicking the “Live Transcript” icon.
- **Live interpretation:** Live Spanish interpretation is available by clicking the “Interpretation” icon and selecting Spanish. Click “Mute Original Audio” to mute English audio when listening in Spanish.
- **Questions:** Use the Q&A feature to ask questions during the presentation. We will address as many as possible after the presentation. If we are unable to answer your question at this time, we will list all questions and answers in the Q&A document available on our website. You can also submit written questions to the EPA Clean School Bus Program helpline at [cleanschoolbus@epa.gov](mailto:cleanschoolbus@epa.gov).
- **Chat:** Chat is disabled, but the presenters might share links through the chat feature.
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# Logística de seminarios web en Zoom



- **Esta presentación es grabada.** Las diapositivas y la grabación se publicarán en [epa.gov/cleanschoolbus](https://epa.gov/cleanschoolbus) tan pronto sean procesadas para su publicación.
- **Todos los asistentes se encuentran solo en modo escucha.** Hay audio disponible a través de los altoparlantes de su computadora o por teléfono. El presentador le pedirá que quite el silencio si corresponde.
- **Transcripción en vivo:** Hay subtítulos disponibles haciendo clic en el icono “Live Transcript” [Transcripción en vivo].
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- **Preguntas:** Use la función Q&A [preguntas y respuestas] para hacer preguntas durante la presentación. Abordaremos todas las que sea posible después de la presentación. Si no podemos contestar su pregunta en este momento, anotaremos todas las preguntas y respuestas en el documento Q&A correspondiente disponible en nuestro sitio web. Puede también enviar preguntas por escrito a la línea directa de ayuda del Programa de Autobuses Escolares Limpios de la EPA en [cleanschoolbus@epa.gov](mailto:cleanschoolbus@epa.gov).
- **Chat:** Se encuentra inhabilitado el chat, pero los presentadores podrían compartir enlaces a través de la función de chat.
- **Reacciones:** Las reacciones están habilitadas para que usted interactúe con el presentador.

# Live Transcription / Transcripción simultánea

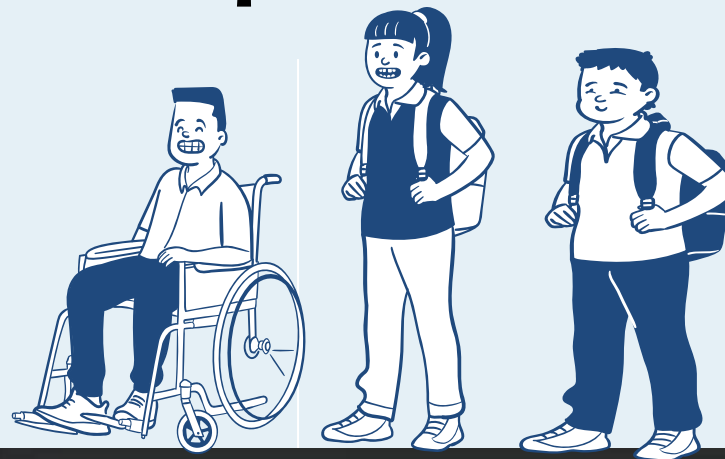


Live transcript is available

CC

Live Transcript

# Live Spanish Interpretation / Interpretación simultánea



✓ Off

English

Spanish

Mute Original Audio



Interpretation

# AGENDA

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Overview of the Clean School Bus (CSB)  
Program

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2024 CSB Rebate Program Overview

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Panel Discussion

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Questions and Answers

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Next Steps and Resources

# Overview of the Clean School Bus Program

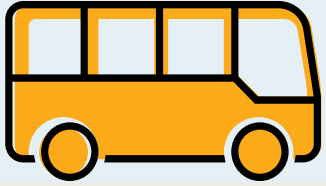
## Bipartisan Infrastructure Law

- The Bipartisan Infrastructure Law (BIL) provides **\$5 billion** over five years (FY22-26) for the replacement of existing school buses with zero-emission (ZE) and clean school buses.

## CSB Funding Opportunities

- The EPA has offered rebates and grants in [past funding opportunities](#).
- The EPA is offering another round of rebate funding.
- **Applications for the 2024 CSB Rebate Program are due by 4pm ET on January 9, 2025.**





# Why Clean School Buses?

A yellow circular icon containing a white silhouette of a factory with two smokestacks.


## Reduced Greenhouse Gas Emissions

CSBs emit zero or low tailpipe emissions.

A blue circular icon containing a white stylized wind symbol with three curved lines.

## Cleaner Air

CSBs result in cleaner air on the bus, in bus loading areas, and in the communities in which they operate.

A green circular icon containing a white silhouette of a money bag with a drawstring top.


## Cost Savings

Replacing diesel school buses with CSBs often reduces maintenance and fuel costs.

A red circular icon containing a white lightning bolt symbol.

## Resiliency

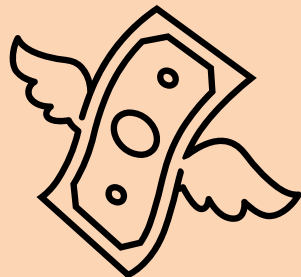
Vehicle-to-Grid (V2G) capable CSBs can provide power to the grid or buildings during power shutdowns.

A purple circular icon containing a white silhouette of a teacher standing at a whiteboard with three students sitting in front of it.

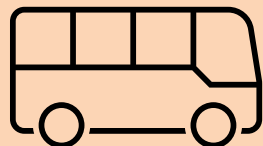
## Improved Student Attendance & Achievement

The transport of students with CSBs has been linked to student attendance and academic achievement improvements.

# 2024 CSB Rebate Program Overview



The EPA is offering up to \$965 million for ZE and clean school buses. The EPA may modify this amount based on the applicant pool and other pertinent factors. Funds are subject to availability and total awards may be higher or lower than the anticipated funds offered update if changed.



Eligible activities include the replacement of existing internal-combustion engine (ICE) school buses with electric, propane, or compressed natural gas (CNG) school buses, as well as the purchase and installation of electric vehicle supply equipment (EVSE) infrastructure.



The EPA is prioritizing applications that will replace buses serving high-need local education agencies, Tribal school districts funded by the Bureau of Indian Education or those receiving basic support payments for students living on Tribal land, and rural areas. EPA is committed to ensuring the CSB Program delivers on the Justice40 Initiative.



**Notable Changes from 2023 CSB Rebate Program:**  
Increased bus maximum (50 buses) and decreased funding per bus.



Application packages must be submitted to EPA no later than 1/9/25 at 4:00 p.m. ET.  
For more information, please visit [www.epa.gov/cleanschoolbus](https://www.epa.gov/cleanschoolbus).



**EPA CLEAN  
SCHOOL BUS**



# Meet our Panelists!

**Bill Wen** – Senior Director of Transportation Services, Orange County – Florida

**Stephen Seelye**– Superintendent, Pellston Public Schools – Michigan

**Katie Tiger**– Air Quality Program Supervisor, Eastern Band of Cherokee Indians – North Carolina

**Donnie Owle** – Service Manager, Cherokee Boys Club, Inc– North Carolina

**Pete Westlake** – Orlando Utilities Commission – Florida

**Thomas DelViscio** – Duke Energy Carolinas – Regional

# Topics

1. Introductions
2. Planning
3. Implementation
4. What's Next?
5. Q&As

# Introductions

## School District –

Reason for pursuing ZE school buses?

Size of fleet?

Urban or rural?

Stage in project?

## Utility –

Area of expertise?

Any projects or initiatives relevant to ZE school buses?

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# Planning

**How/when did you initiate connection between school district and utility?**

**What did the planning process and timeline look like?**

**What information did your utility want to know about your electric school bus project?**

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# Planning

**What size and model buses have you selected and what type of chargers (Level 2 or DCFC) are you installing and why?**

**How did you decide where to install your charging infrastructure? Was utility infrastructure a consideration?**

**How does a utility company approach infrastructure placement? What should a district be thinking about regarding location?**

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## Technical Assistance Resources

- [EPA CSB Technical Assistance](#)
  - [Coordinating with Utilities Page](#)
- The Joint Office of Energy and Transportation
  - [cleanschoolbusTA@nrel.gov](mailto:cleanschoolbusTA@nrel.gov)
  - [driveelectric.gov](https://driveelectric.gov)
  - [AFDC Utility Finder](#)
  - [Electric School Bus Charging Station Planning Form](#)
- Electric Sector Pledge to Support School Bus Electrification

# Implementation

**How can school districts utilize managed charging or other approaches to optimize their infrastructure setup?**

**How should school districts approach permitting?**

# What's Next?

**What cost savings have you seen so far?**

**What plans do you have for future projects in your community?**

**What steps are needed to initiate V2X capabilities?**

**What else should school districts consider?**

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# Question & Answer Session

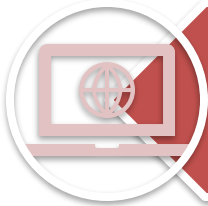


Upvote and comment on questions similar to your own.  
Type your full thought so we can follow-up with an answer.

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[epa.gov/cleanschoolbus](https://epa.gov/cleanschoolbus)

# How to Apply — Overview



1. Visit the Clean School Bus Website for Tools & Resources



2. Register your Organization with SAM.gov



3. Complete your Application Form and Supplemental Applicant Forms



4. Submit Application Package by January 9th , 2025 at 4:00pm ET

# Upcoming Webinars

November 18, 2024 at 1pm  
ET

2024 CSB Rebate Program Frequently Asked Questions  
Overview with Live Q&A

January 30, 2025 at 1pm ET

2024 CSB Rebates Feedback and Next Steps for Selectees

## Recent Webinars (materials are on the CSB webinars page)

October 1, 2024

2024 Clean School Bus Program Rebate Program Overview  
Session

October 8, 2024

Joint Office Technical Assistance Webinar Series: Fleet Planning  
and Route Analysis

*\*Please note: Webinar topics are subject to change. To view the most up-to-date list of CSB webinars and register, please visit: [www.epa.gov/cleanschoolbus/events-related-clean-school-bus-program](https://www.epa.gov/cleanschoolbus/events-related-clean-school-bus-program)*



Application packages must be submitted to EPA no later than 1/9/25 at 4:00 p.m. ET.  
For more information, please visit [www.epa.gov/cleanschoolbus](https://www.epa.gov/cleanschoolbus).



## 2024 CSB Rebates

- Applications must be submitted to the EPA no later than 1/9/25 at 4:00 p.m. ET.
- Dates and topics for future webinars are on our website under the 'Webinars' section.

## Future Funding Opportunities

- The EPA encourages school districts to consider which competition structure (grants or rebates) best suits their needs.
- The EPA anticipates opening additional CSB funding opportunities.

## Resources

- [The EPA's CSB Program website](#)
- The Joint Office of Energy and Transportation ([cleanschoolbusTA@nrel.gov](mailto:cleanschoolbusTA@nrel.gov))
- The CSB Helpline ([cleanschoolbus@epa.gov](mailto:cleanschoolbus@epa.gov))

## Stay in Touch

- Learn more about 2024 CSB Rebates at [epa.gov/cleanschoolbus/school-bus-rebates-clean-school-bus-program](https://epa.gov/cleanschoolbus/school-bus-rebates-clean-school-bus-program)
- Submit questions to [cleanschoolbus@epa.gov](mailto:cleanschoolbus@epa.gov)
- Joint Office Technical Assistance Helpline: [cleanschoolbusTA@nrel.gov](mailto:cleanschoolbusTA@nrel.gov)
- Don't miss any updates! To sign up for the listserv, please visit [epa.gov/cleanschoolbus](https://epa.gov/cleanschoolbus).



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# Appendix A: Utility Considerations

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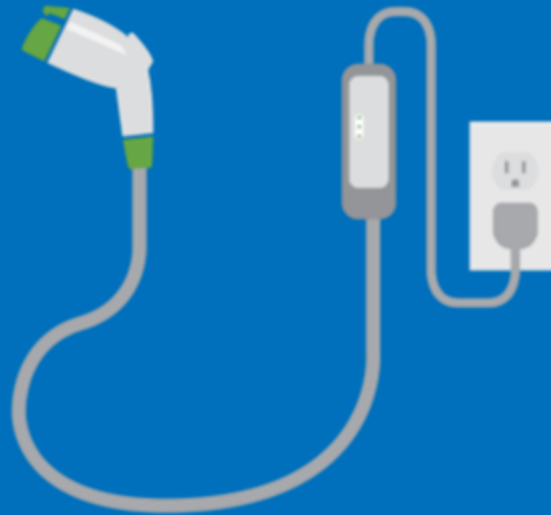
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# Main Steps to Fleet Transition

1. Assessing your existing fleet and modeling how it will look as electric
2. Assess your location for charging capacity
3. Assess potential funding sources and grants
4. Complete a pilot
5. Set a charging and transition strategy

# What Are Charging Levels

**Level 1 chargers** use standard 120V outlets. 120V circuits are also used by most home electronics. 1 hour = 5 miles.  
Used at home.

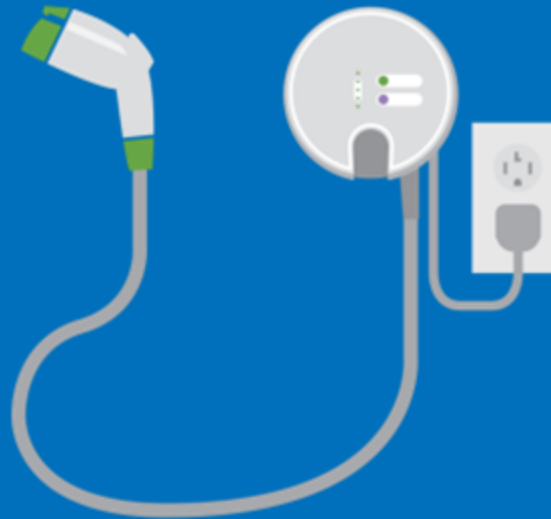


Level<sub>1</sub>



# What Are Charging Levels

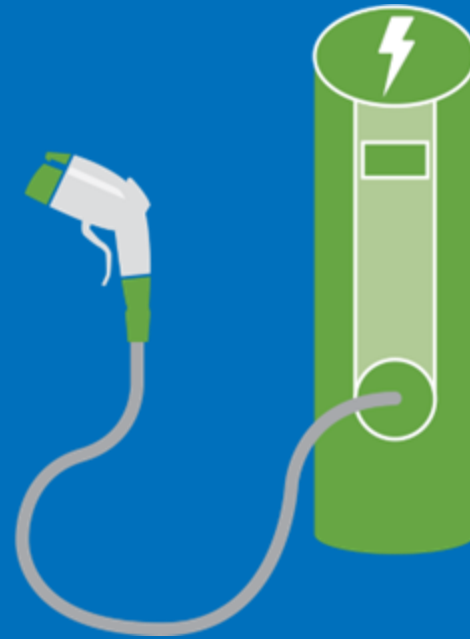
**Level 2 chargers** use 240V circuits. 240V circuits are also used by dryers and stovetops. 1 hour = 25-45 miles. Used at home, in public or at work.



Level<sub>2</sub>

# What Are Charging Levels

**Direct Current (DC) Fast Chargers** use 480V circuits at public charging stations. 10 minutes = 40+ miles.



Direct Current Fast Charger (DCFC)