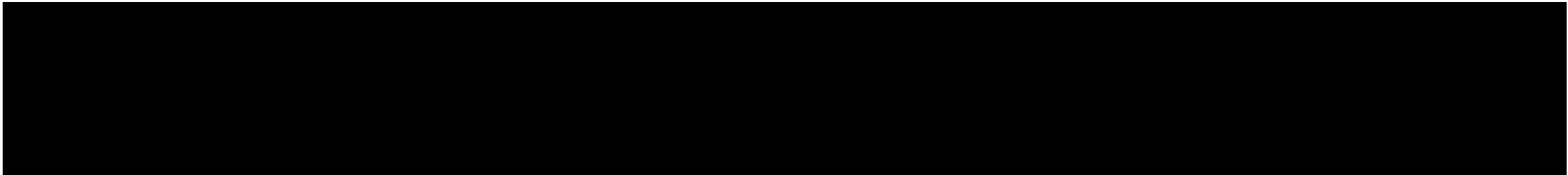




WORLD
RESOURCES
INSTITUTE

THE WRI ELECTRIC SCHOOL BUS INITIATIVE

MAY 10, 2023



● International Office ● Regional Hub ● Programmatic Office

OUR AIM: ELECTRIFY THE ENTIRE U.S. FLEET BY 2030

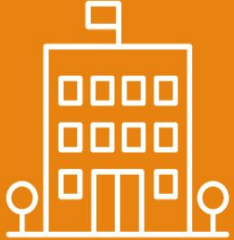
- Partner with communities, school districts, industry experts, manufacturers, utilities, and policy makers to **transform and electrify** the school bus market.
- Together, build unstoppable momentum to **electrify** 480,000 school buses in the U.S. by 2030.
- Ensure an **equitable transition** by focusing on underserved communities.



OUR VISION INVOLVES MULTIPLE STAKEHOLDERS

Goal: An Equitable Transition to Electric School Buses

School
Districts



Pillar 1

Manufacturers



Pillar 2

Utilities



Pillar 3

Federal & State
Policymakers



Pillar 4

Local
Communities



Pillar 5

Foundation: Equity, Communications, Engagement

PROJECT WIDE ADVISORY COUNCIL MEMBERS | * = CO-CHAIR



Maia D. Bellon
Partner, Cascadia Law
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Stephanie Bowman
Manager of Movements &
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Mari McClure
President & CEO,
Green Mountain Power



Molly McGee Hewitt
Executive Director & CEO,
National Association for
Pupil Transportation



Solyana Mesfin*
College student & first
Student Ex Officio Member,
Kentucky Board of
Education



Melissa Miles
Executive Director,
New Jersey Environmental
Justice Alliance



**Commissioner Patty
Monahan**
California Energy
Commission



Michael A. Nutter
Former Mayor of
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Electric Institute



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Affairs Liaison, Disability
Rights Education & Defense
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Karen Wayland
CEO,
GridWise Alliance



Randi Weingarten
President,
American Federation
of Teachers

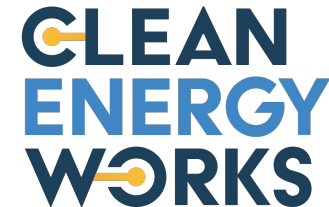


Harold Wimmer*
National President &
CEO, American Lung
Association



Curtis Wynn
CEO, SECO Energy

OUR NATIONAL PARTNERS (WITH MORE TO COME)



OUR STATE POLICY PARTNERS (WITH MORE TO COME)



ELECTRIFYNY

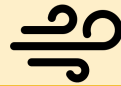


WHY ELECTRIFY THE U.S. SCHOOL BUS FLEET?

Electrification can accelerate decarbonization while bringing direct, tangible benefits to every community



Improved health and cognitive outcomes for children



Cleaner air, especially in high-pollution corridors and communities of color



Reduced operating expenses for school districts



New jobs in green manufacturing



A tipping point for MHD + electrification



Enhanced **resiliency** and **renewables integration** with V2X

THE BURDEN OF AIR POLLUTION IS INEQUITABLE



70% of low-income students take the bus compared to 50% of non-low-income students

PM exposure from on-road sources can be **75% higher for Latinos, 73% higher for Asian Americans, and 61% higher for African Americans**

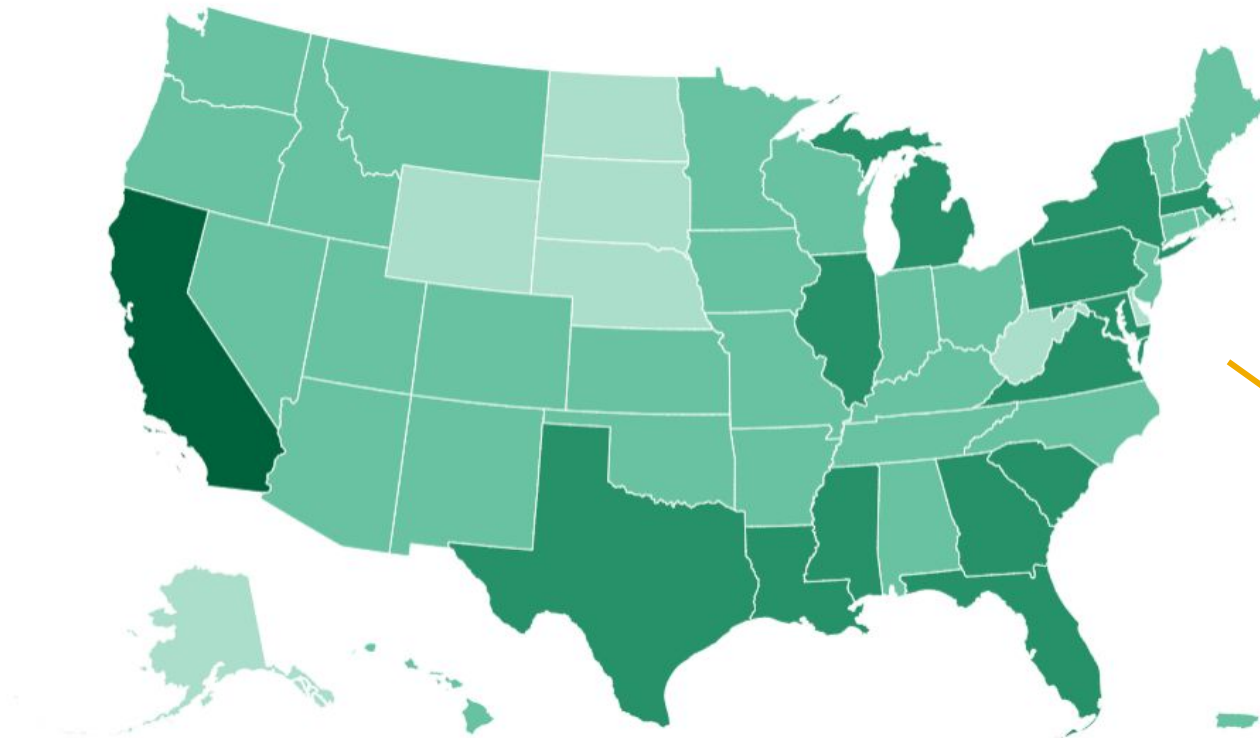
Children with disabilities often **ride longer** than other kids

Indigenous communities are **disproportionately impacted** by air pollution, and have **childhood asthma rates 150% above national average**

ELECTRIC SCHOOL BUS CONCENTRATION

Committed* electric school buses by state

1-10 11-100 101-500 501+



Leading states for commitments:

- California: 1,852 electric school buses
- Maryland: 361 electric school buses
- New York: 310 electric school buses

NEW \$5B FEDERAL ELECTRIC SCHOOL BUS PROGRAM



In November 2021, Congress passed the bipartisan Infrastructure Investment & Jobs Act, including a **record \$5 billion** to replace older, polluting school buses with cleaner and electric school buses.



That includes **\$2.5 billion in dedicated, standalone funding for electric school buses** and another \$2.5 billion for electric and alternative fuel school buses.



Now **EPA** has **designed** and is **implementing the Clean School Bus Program** to disburse the funds. Has both rebate and grant funding opportunities.

CLEAN SCHOOL BUS PROGRAM & MICHIGAN

Rebates ROUND 1 Awarded

US: Nearly \$1B awarded for 2,400+ buses (\$395K for ESB+charger)

MICHIGAN: \$52,625,000 for 135 buses in 25 school districts
24 of 25 SDs asked for only **electric** school buses

NOTE: 54 MI school districts asking for 222 ESBs waitlisted – now closed

Grants ROUND 2 Ongoing

\$400M available with funding split across EPA regions for 25 to 50 awards

- school districts (15 to 50 buses)
- third parties (50 to 100 buses covering at least 4 school districts)

Application period open now until August 22

- More competitive if complementary funds available to stack with federal funding

MICHIGAN: 185 school districts on priority list; 351 that can self-certify

STATE POLICY OPPORTUNITIES & 2022 EXAMPLES



Set **ambitious fleet electrification targets** and timelines

to give certainty to school districts and manufacturers

- *Transition targets set in NY, CT, MD, ME*



Invest **dedicated funding** for ESBs, especially for EJ

communities and school districts with fewer resources

- *State (CO, NJ), utility (IN, MD), bond act (NY) funding*

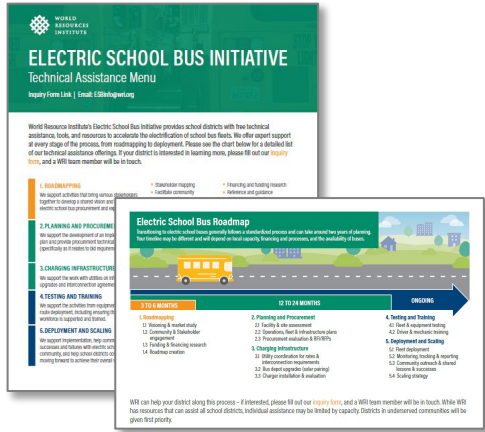


Support state-administered **technical assistance** and

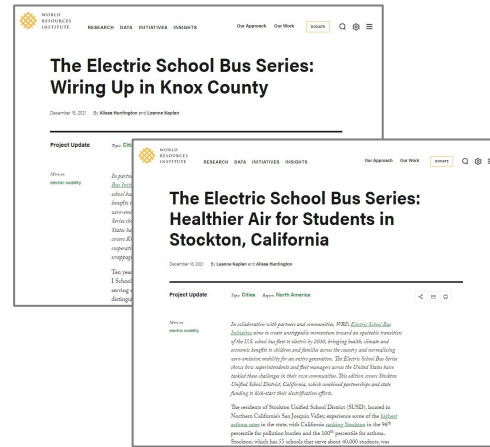
workforce development measures with a focus on equity

- *Manufacturing aid for in-state produced buses (WV)*

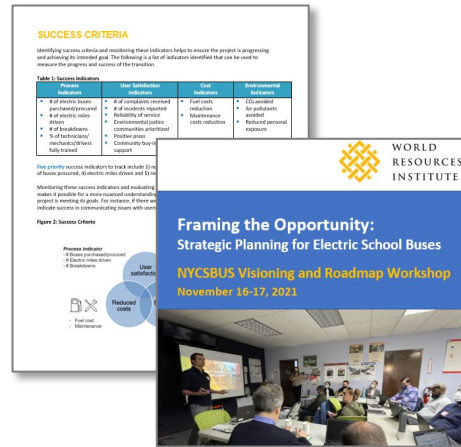
RECENT ESB INITIATIVE TOOLS & RESOURCES



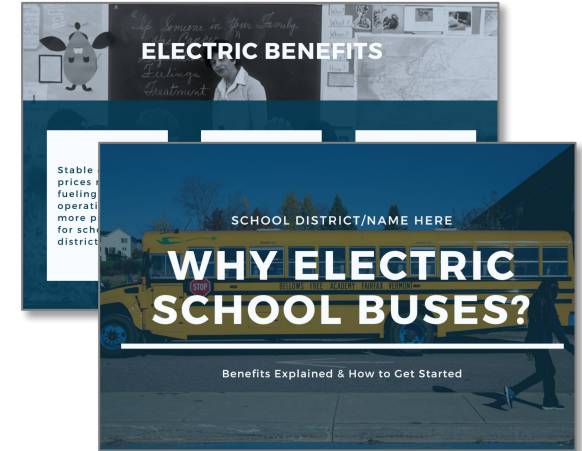
Technical assistance & instructional resources for school districts



Case studies sharing key learnings, best practices and practical knowledge

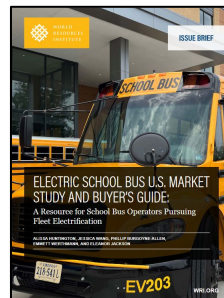


Partner-oriented strategic plans and roadmapping assessments



District-ready informational and promotional materials

New Market Study and Buyer's Guide



Additional tools and resources in development, including an equity framework, total cost of ownership calculator, site assessment checklist and more

NEW WRI REPORT -- MICHIGAN EV JOBS



With supportive policies, Michigan can create **56,000+ jobs in EV manufacturing by 2030** and thousands more jobs from EV charging infrastructure installation, maintenance and utilities by 2040.

Michigan car owners could save **\$40 billion cumulatively by 2040** on vehicle purchases, maintenance and gasoline. Re-spend savings could lead to **27,000 additional jobs** in Michigan's economy.

EV and battery tax credits in the Inflation Reduction Act could deliver at least **\$9 billion in additional savings for Michigan car owners by 2032** and **15,000 additional jobs** in Michigan's economy.

REPORT

A roadmap for Michigan's electric vehicle future

An assessment of the employment effects and just transition needs

Devashree Saha, Joel Jaeger, Sujata Rajpurohit, Evana Said, and John A. "Skip" Laitner

Electric
School Bus

INITIATIVE

THANK YOU

Find out more at [electricschoolbusinitiative.org](https://www.electricschoolbusinitiative.org)

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