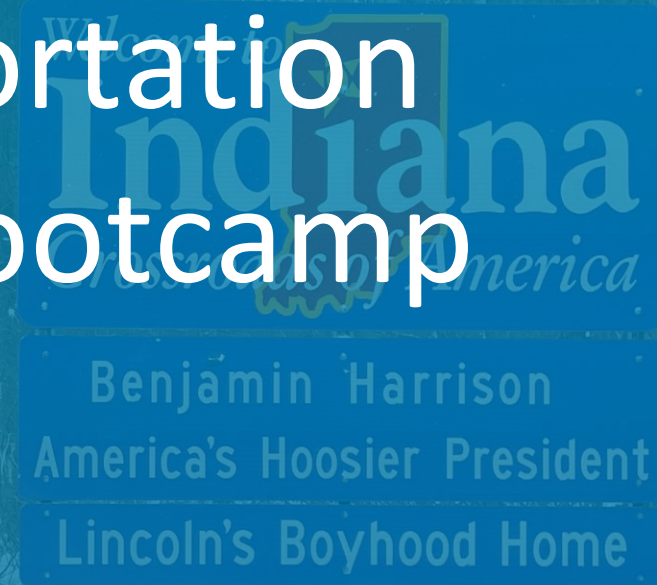


Indiana Transportation Electrification Bootcamp

April 14, 2023



Electrification
Coalition



HOUSEKEEPING

- ❑ **Please Sign In**: First, Last + Organization in chat box now
- ❑ We will be **recording** this bootcamp (and share later, with slides)
- ❑ **Speaker Bios** are hyperlinked in agenda - we will send through chat
- ❑ **Chat**: Please use Zoom's Q&A function for questions
- ❑ **Tech Help**: Please chat privately **ECTECH**



GET READY FOR SOME GREAT SPEAKERS!



Admiral Dennis Blair,
Former U.S. Director
of National Intelligence,
U.S. Navy Admiral (Ret.)



**Representative Mike
Karickhoff,**
District 30 & Speaker Pro
Tempore



**Representative Carey
Hamilton,**
District 87



Ryan Hadley,
IN Office of Energy
Development



Scott Manning,
IN Department of
Transportation



Shawn Seals
IN Department
of Environmental
Management



Anthony Maietta
United States
Environmental
Protection Agency



John Douglas,
Crawfordsville Electric
Light & Power



Joan Soller,
Wabash Valley Power
Alliance



Mike Maten,
General Motors



Ben Wrightsman,
Battery Innovation Center



Kerri Garvin,
Greater Indiana Clean
Cities Inc.



Carl Lisek,
Drive Clean Indiana



Paula Brooks
Hoosier Environmental
Council



Matthew Jones,
Francis Energy



LaToya King
South Bend Community
School Corp.



Natalia Akopian,
World Resources
Institute

Electrification Coalition

The **Electrification Coalition** is a nonpartisan, nonprofit organization dedicated to driving the policies and actions that will electrify all modes of transportation to protect economic and national security, public health, and American jobs.



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Coalition

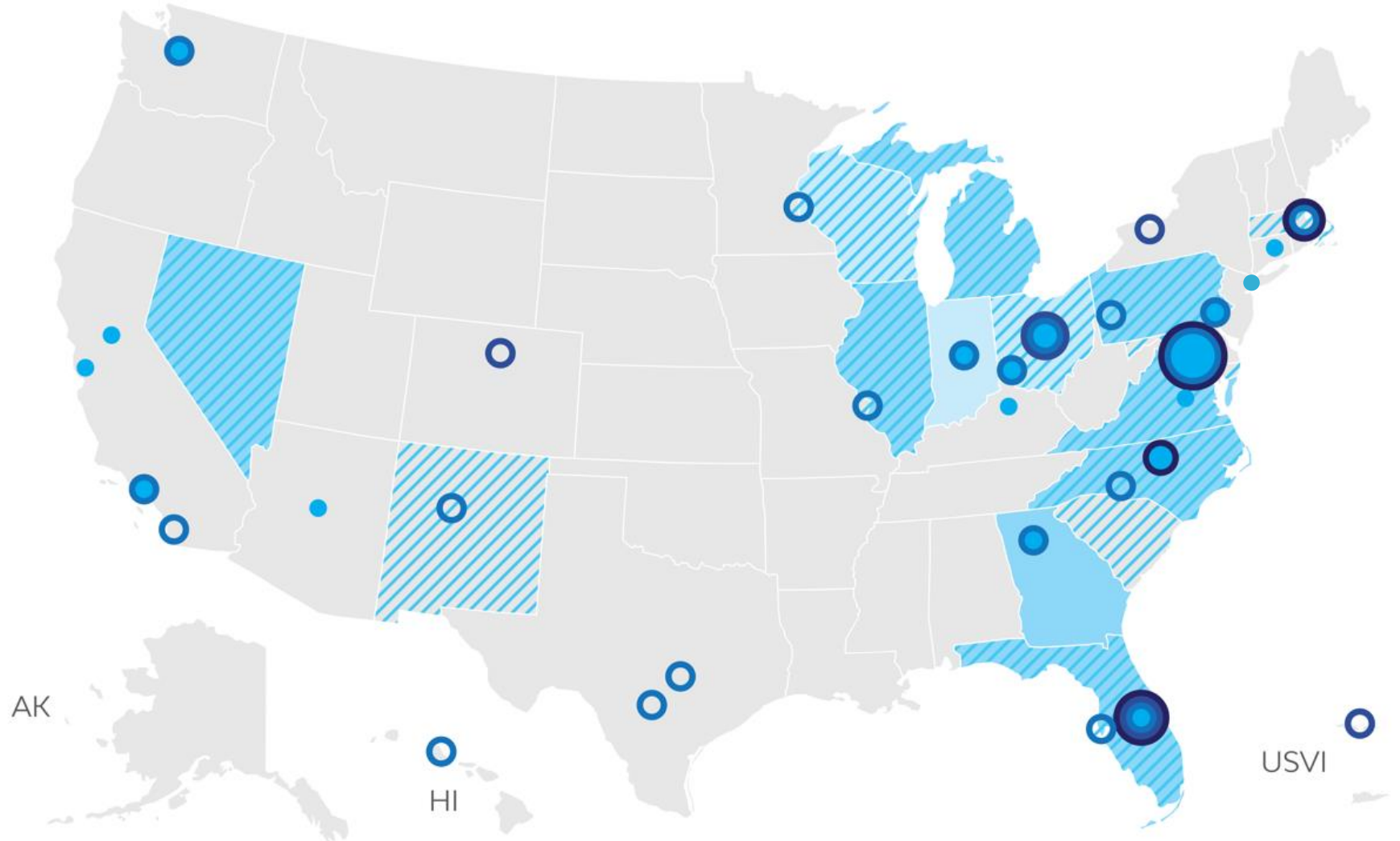


SAFE

The EC National Presence

- EC Staff Locations
- Priority States
- Tier 2 States
- ▨ State Fleet Cohorts
- Priority Cities
- Smart / Accelerator Cities
- Roadmap Cities

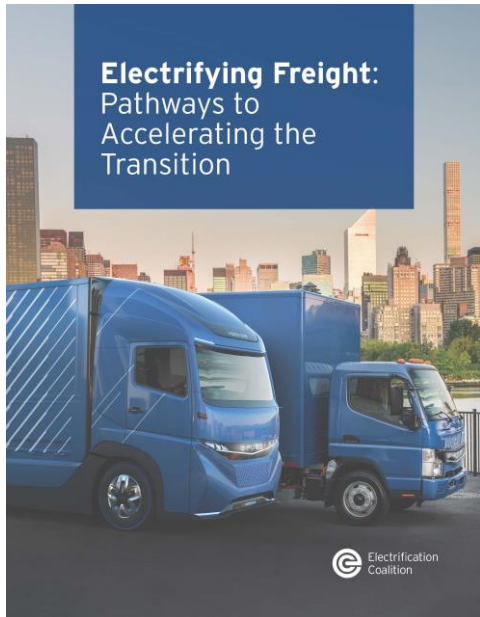
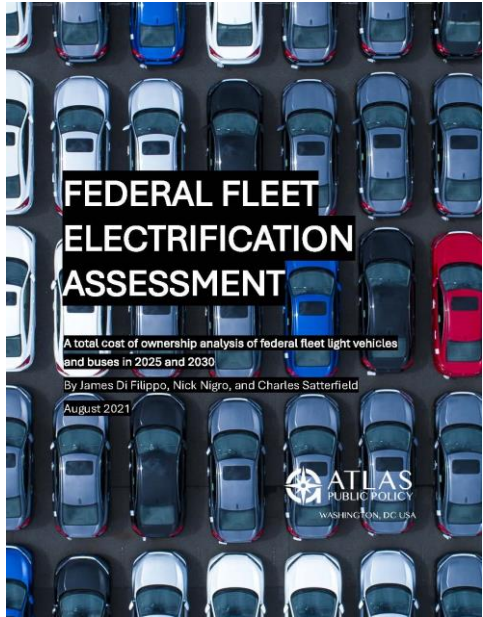
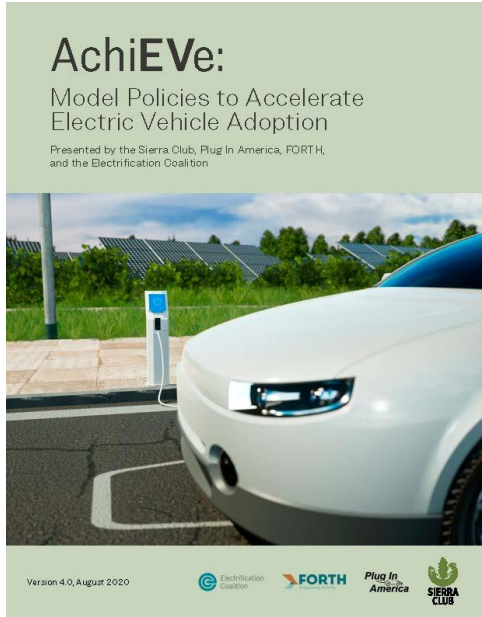
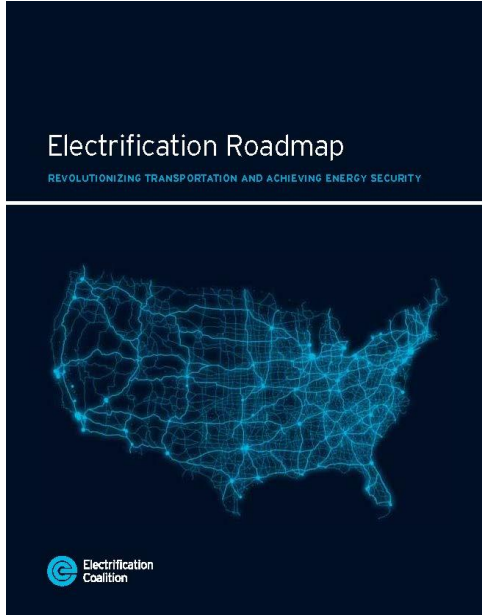
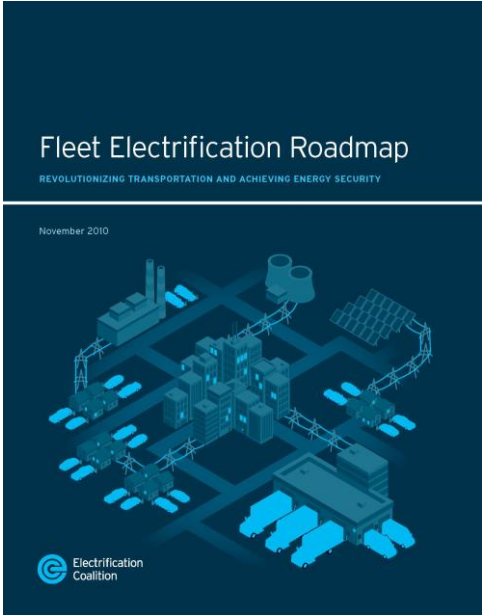
*Does not include national programs like the Climate Mayors EV Purchasing Collaborative that works with more than 400 public fleets across America.



Electrification Coalition Business Council

The United States' transition to an electrified transportation future isn't a question of if – it's when. ECBC creates a strategic alliance that can supercharge support for the policies and actions needed to accelerate transportation electrification at a mass scale.





Explore more resources at www.electrificationcoalition.org

Bloomberg
Philanthropies

American Cities Climate Challenge

St. Paul increased
EV deployment of
the HourCar program
from **50 to 100 EVs.**



Albuquerque's application
for FTA Low-No funding
resulted in **\$980,000 in
funding** for 5 new Battery
Electric Buses and EV charging.



Cincinnati submitted a
robust application for
**\$240,000 in EV
charging projects.**

US DOT Smart City Challenge

- Nearly **\$350 million** in public and private funds for smart city and advanced transportation technologies with U.S. Department of Transportation and Paul G. Allen Foundation
- Columbus, OH launched Smart Columbus program, focused on **connected, autonomous, shared, and electric technologies**



Climate Mayors EV Purchasing Collaborative

- A partnership designed to help **accelerate the electrification** of public fleets across the country
- The Collaborative works to **reduce the costs and barriers to electrifying fleets** to make it easy for public fleets to go electric

Learn more at www.DriveEVfleets.org



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Sourcewell 



SPARK! STATE PLUG-IN ADOPTION RESOURCE KIT

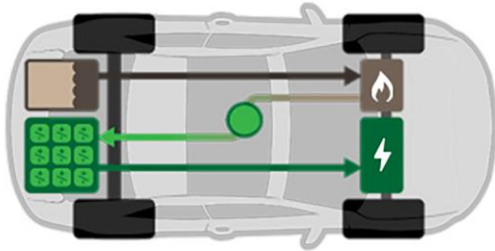
A State Fleet Electrification Resource
designed in partnership by the
Electrification Coalition and *US Climate
Alliance*

EV BASICS



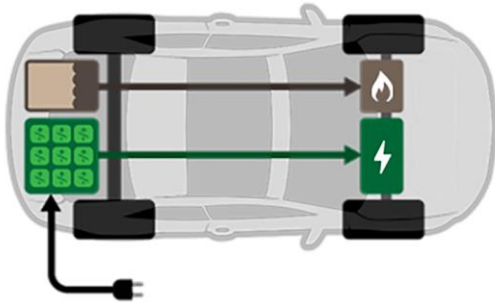
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Coalition

Electric Vehicle Types



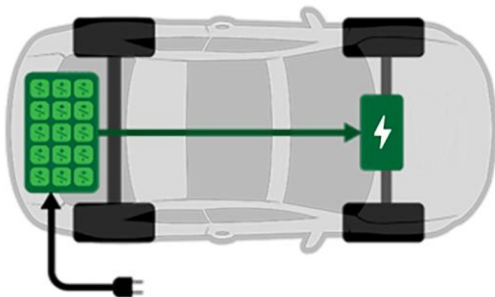
HYBRID VEHICLE (not considered an EV)

Internal combustion engine is the primary energy source. Cannot be charged through a plug, but it does have an electric motor and a battery that can be recharged through regenerative braking.



PLUG-IN HYBRID ELECTRIC VEHICLE (PHEV)

PHEVs are powered by an internal combustion engine AND an electric motor. The vehicle can be plugged into an electric power source to charge the battery. Some can travel up to 100 miles on electricity alone, and all can operate solely on gasoline if needed.



BATTERY ELECTRIC VEHICLE (BEV)

BEVs use a battery to store the electric energy that powers the motor. EV batteries are charged by plugging the vehicle into a power source. Because there is no internal combustion engine, zero tailpipe emissions are produced.

Vehicle Type Examples

HYBRID



Toyota Prius



Honda Accord Hybrid



Hyundai Sonata Hybrid

PHEV



Toyota Prius Prime



Honda Clarity PHEV



Kia Niro PHEV

BEV



Nissan LEAF



Chevrolet Bolt



Tesla (Model 3)

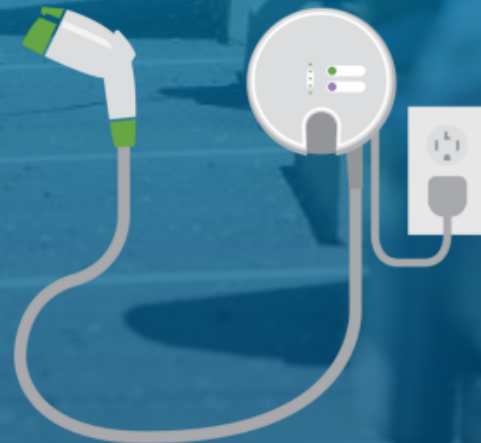
What Are Charging Levels?

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



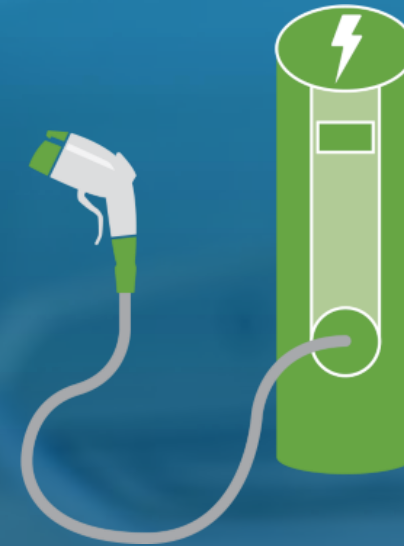
Level 1

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 2

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



Direct Current

Global Private Investment in EVs By Type

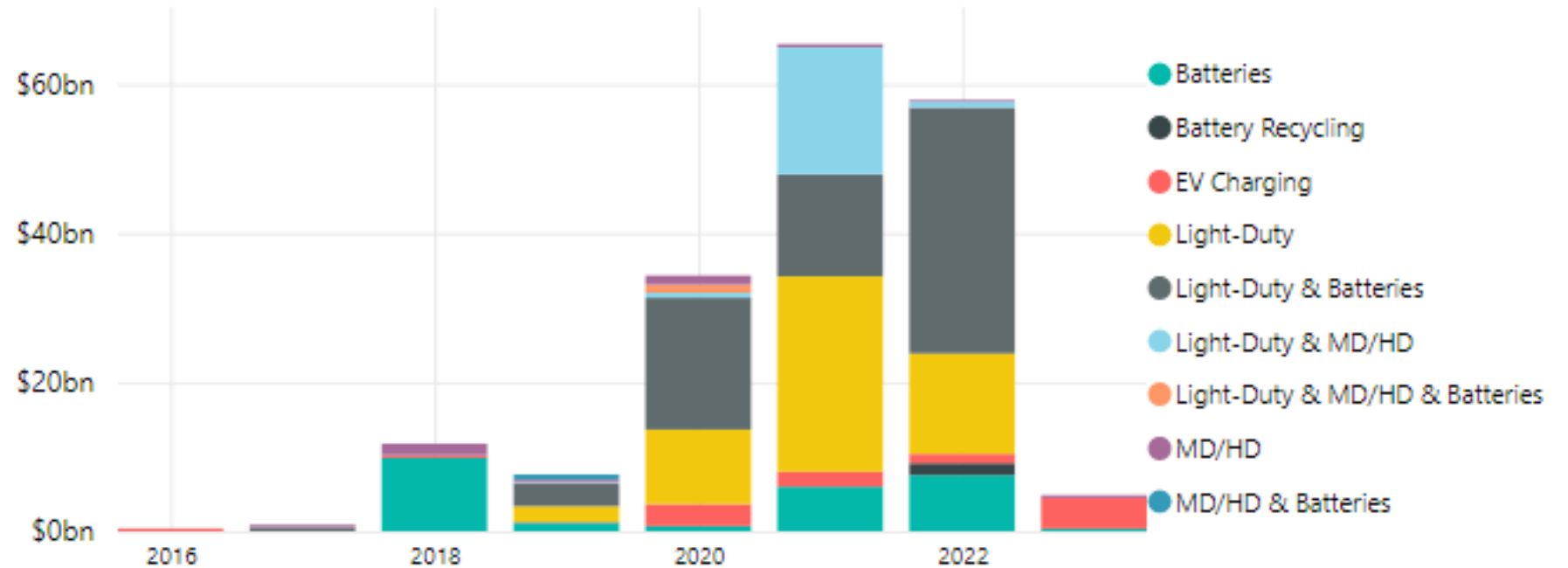
U.S. Investment
Total:
\$183B

42 Companies

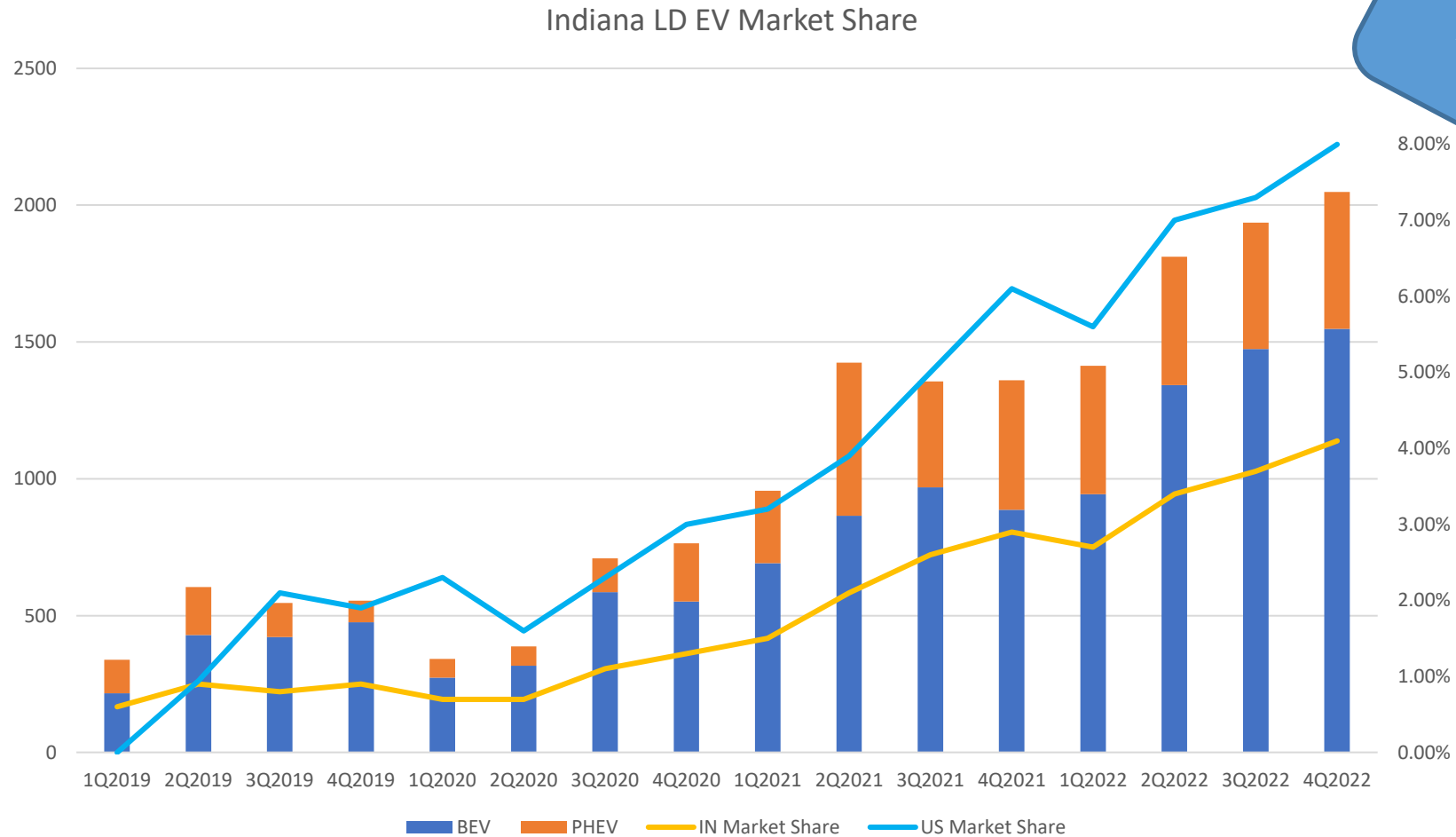
\$4.96B
Planned for
Indiana

3707 Jobs

Investment by Type and Announcement Date



Indiana EV Market Snapshot



Q4 2022: 4.1% of New Car Sales



Buckle Up!

Let's Get Started



Admiral Dennis Blair

Former Director, National Intelligence
and Commander in Chief,
U.S. Pacific Command



Electrification
Coalition

Representative Carey Hamilton

IN House, District 87



Representative Mike Karickhoff

IN House, District 30, Speaker Pro Tempore



An aerial photograph of New York City, showing the dense urban landscape, the Hudson River, and the East River. A large, semi-transparent blue graphic consisting of three overlapping, concentric, rounded rectangular shapes is centered over the image. The text is overlaid on this graphic.

WE WILL BE RIGHT BACK
AFTER THIS SHORT BREAK

Indiana Transportation Electrification Bootcamp
April 14, 2023



RYAN HADLEY

Executive Director, Indiana
Office of Energy
Development



SCOTT MANNING

Deputy Chief of Staff, Indiana
Department of Transportation



SHAWN SEALS

Senior Environmental Manager,
Indiana Department of
Environmental Management

The State of the
State for EVs in
Indiana



JOHN DOUGLAS

Assistant General Manager,
Crawfordsville Electric Light
& Power



RHETT BARKER

Regional Business Lead,
MOTOR



VINEET RAMAN

Director of Utility Partnerships,
MOTOR

Adapting the Grid
for Indiana's
Electric Future

Spencer Burget

Policy Associate

ATLAS Public Policy



Indiana Market Update



BEN WRIGHTSMAN

Chief Executive Officer,
Battery Innovation Center



MICHAEL MATEN

Director of EV Policy and
Regulatory Affairs, General Motors

Manufacturing
and Assembly:
Private Sector
Investment



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WE WILL BE RIGHT BACK
AFTER THIS SHORT BREAK

Indiana Transportation Electrification Bootcamp
April 14, 2023

Paula Brooks

Environmental Justice Director
Hoosier Environmental Council



**Environmental
Justice: Ensuring
Benefits for All**

ELECTRIFICATION IN RURAL COMMUNITIES



KERRI GARVIN

Executive Director,
Greater Indiana Clean
Cities, Inc.



PAULA BROOKS

Environmental Justice
Director,
Hoosier
Environmental
Council



JOAN SOLLER

Director of Grid
Innovation & Portfolio
Integration,
Wabash Valley Power
Alliance



MATTHEW JONES

Director of Government
Relations,
Francis Energy

GETTING BUSES ON THE STREETS: ELECTRIFYING SCHOOL BUSES



CARL LISEK

Executive Director,
Drive Clean Indiana



**ANTHONY
MAIETTA**

Environmental
Protection Specialist,
U.S. Environmental
Protection Agency



LATOYA KING

Director of Transportation,
South Bend Community
School Corp.



**NATALIA
AKOPIAN**

Policy & Government
Affairs Analyst, Electric
School Bus Initiative,
World Resources
Institute



CLOSING REMARKS

Katie Lineweaver Robinson, VP of Programs



Electrification
Coalition

Thank You!

Contact the EC's Indiana Team:

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Max Turner

Campaigns Organizer

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Online: www.electrificationcoalition.org



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