

NIRPC NDEW Virtual EV Experience

NDEW Virtual Electric Vehicle Experience



9:30 a.m.-11 a.m. Central | Oct. 1, 2020



South Shore Clean Cities

NIRPC NDEW Virtual EV Experience

Catherine Yoder,
Marketing & Project Coordinator

October 1, 2020



About Us

- ❑ SSCC -- headquartered in St. John, Indiana -- is a 501(c)(3) nonprofit organization managed by Legacy Environmental Services, Inc., an Indiana Certified Women's Business Enterprise.
- ❑ Designated as the 71st Clean Cities coalition on June 15, 1999, SSCC is one of the U.S. DOE's nearly 100 Clean Cities coalitions across the country.



Our Mission



“South Shore Clean Cities is a member-based coalition dedicated to promoting fuel- & technology-neutral sustainable transportation and clean energy options in Indiana. We guide our diverse membership base in the public, private and nonprofit sectors to increase the use and implementation of sustainable transportation methods and infrastructure. Our programs improve air quality, promote domestic fuels, strengthen the nation’s energy security, reduce dependence on imported oil and support local jobs and the local economy.”

How do we do it?



PARTNERSHIPS!



Learn More

Contact South Shore Clean Cities to learn how we can help with all of your sustainable transportation & clean energy needs.



Thank You!

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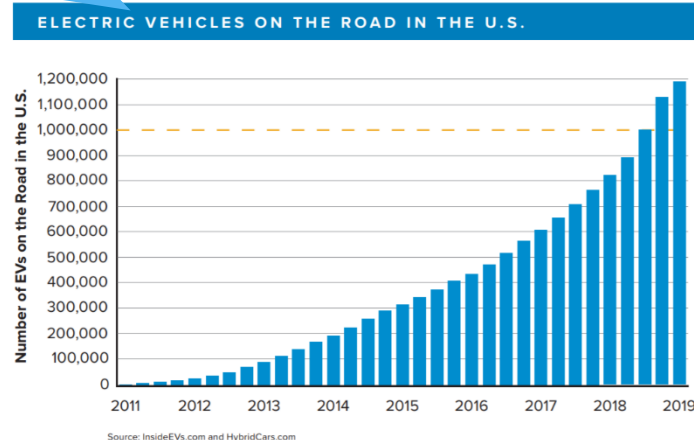
Speaker: Kevin Kirkham
Manager New
Business

-EV Owner Since 2018

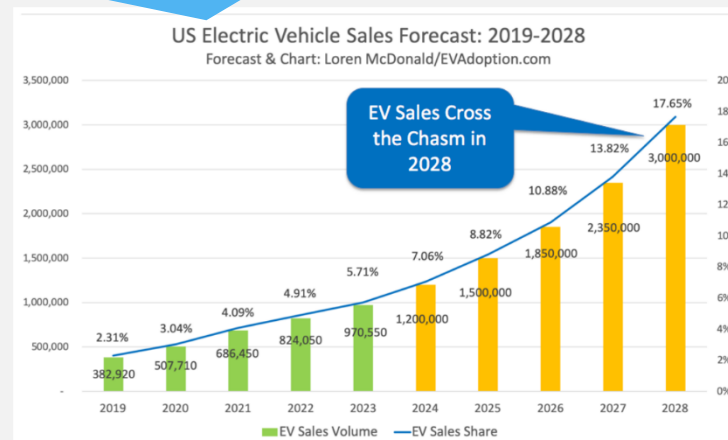
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Adoption of Electric Vehicles has shown consistent, sustained growth across the country; however, **implementing DC fast charging infrastructure remains a challenge**

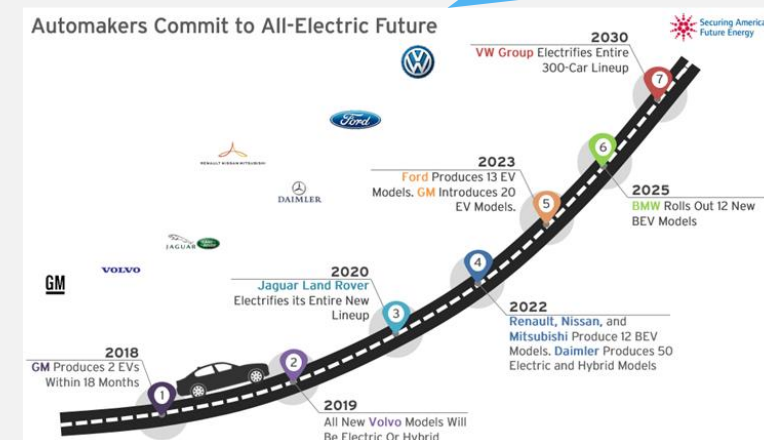
EV sales were 2% of all auto sales in 2019¹



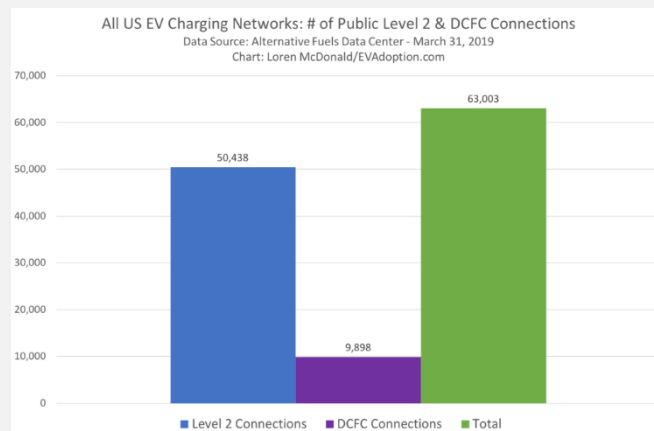
EV sales forecast is expected to continue to grow over next decade²



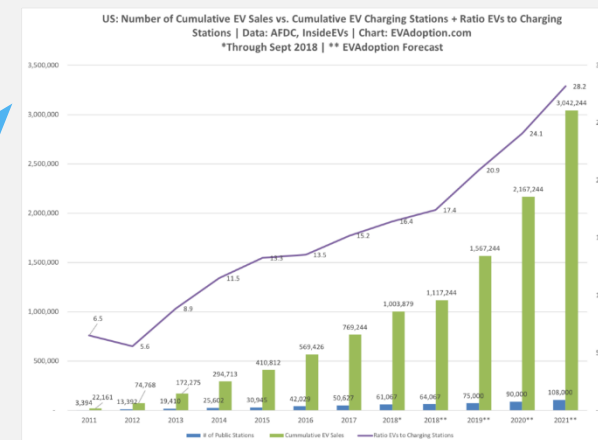
OEMs forecast big expansion in EV models³



DC fast charging stations make up only 16% of all charging stations in the USA⁴



The growth of EVs is significantly outpacing the growth of EV charging stations⁴



* See slide 18 for citations

Adoption in Indiana is on a steady growth path and peer NIPSCO utilities are addressing EV growth; however, the availability of EV infrastructure may limit adoption



EV adoption in Indiana is slow relative to Illinois, but growing organically without State support

2.3M⁵ Total registered vehicles

6,600⁶ Plug-in EVs

0.28% Registered EVs

18⁸ DC fast charging stations



For comparison, EV adoption in Illinois is growing faster, but has benefited from State support

4.5M⁵ Total registered vehicles

15,000⁷ Plug-in EVs

0.33% Registered EVs

34⁸ DC fast charging stations

The majority of the DC Fast Charging stations are Tesla Stations which only allow Tesla cars to plug in

EV adoption is growing in Indiana, but the 18 DC fast charging stations in Indiana are scattered with no clear network of DC fast charging stations, which may limit future adoption

3 Charging Station Levels

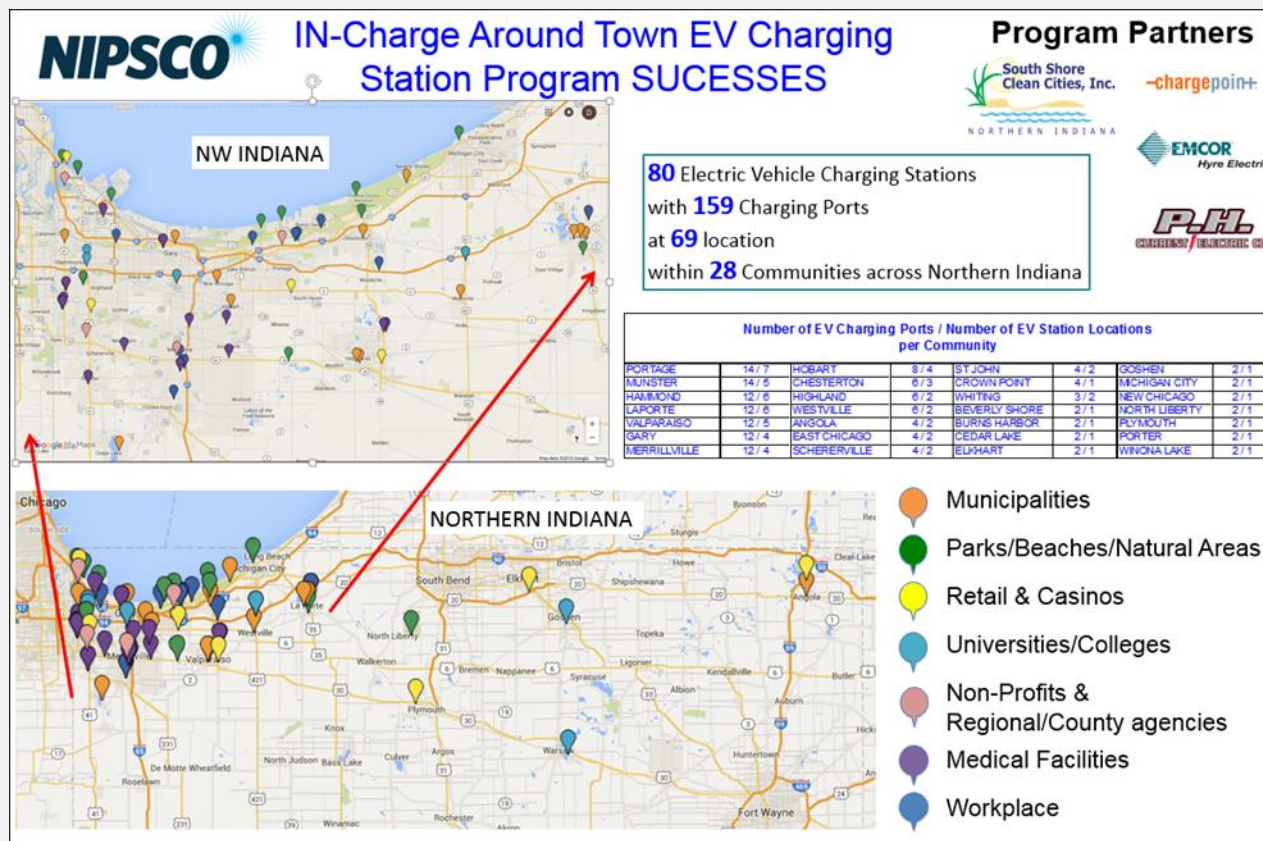
Charging Option	Use	Charging Time*
Level 1	Requires a 120-volt AC plug that can be used with a standard wall outlet. Most EVs will come with a Level 1 cord so that no additional charging equipment is required.	10-20 hours
Level 2	Requires a 240-volt AC plug and requires installation of a charging station. Ideal for overnight charging in homes.	4-6 hours
DC Fast Charging	Requires a 480-volt plug. While quick charging is a new addition to the public charging infrastructure landscape and not widely available, it is the most convenient for travelers.	Less than 30 minutes

Residential Federal Tax Credit

The U.S. federal tax credit gives individuals 30% tax credit on a electric vehicle charging station plus installation costs (up to \$1,000). Must purchase and install by December 31, 2020, and claim the credit on your federal tax return.

You can view map of charging stations at Department of Energy website: <https://afdc.energy.gov/>

NIPSCO In-Charge Around Town program ran from 2014 thru 2018



In Charge Around Town Program

- Provided Free L2 Public Charging Station (\$6k value)
- Provided incentive for up to 50% of installation costs up to \$2500
 - (Installation Costs range from \$2k to \$10k)



Indiana utilities are working to address the infrastructure challenge to create the 'Crossroads of America Electric Vehicle Interstate Corridor' supported by the Volkswagen Mitigation Trust Fund

The goal is to create a network of EV DC fast charging stations along Indiana's major interstates and highways

\$40.9M

granted to Indiana from
Volkswagen Environmental
Mitigation Fund with

- **\$5.54M**
allocated for EV DC fast chargers
- **\$0.62M**
allocated for L2 Chargers

Indiana Energy Association (IEA)
and its members are leading the effort



* Committing to 30 fast charging locations well beyond the scope of this program⁹

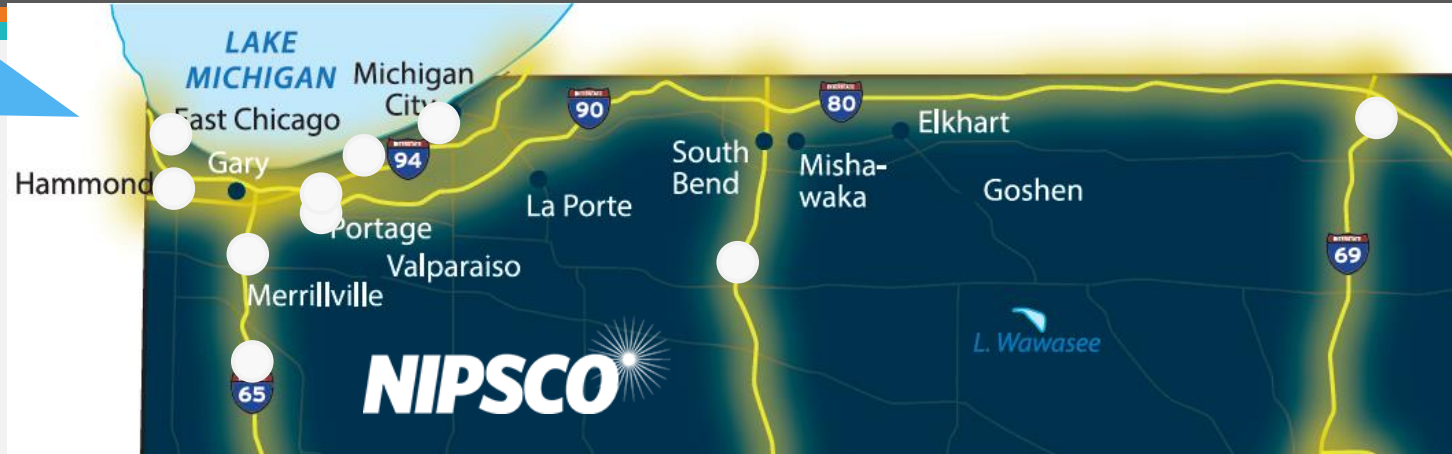


If approved the Crossroads of America EV Interstate Corridor would have between 62 – 70 DC fast charging stations!

6

NIPSCO would have 10 of the total 62-70 potential charging locations identified by IEA across the partnering utility territories to align with the EV Interstate Corridor Vision

10 preliminary locations have been identified for NIPSCO



DC Fast
Chargers

charge EV in
30-40 mins



62-70 sites

124+
charger ports



Key locations
along Indiana
**interstates,
highways
and
population**



120 kW
min. power
per station
2 ports per
station



50 miles
target max.
separation
(1 mile from
highway exit)



Consistency
across
charging
station
standards

Electric Vehicle Owner Testimonials Video

Mitch Barloga - Hyundai Ioniq

Scott Weber - Tesla Model 3

Dana Hybl - Nissan LEAF

Joe O'Rourke - Tesla Model 3

Electric Vehicle Panel Discussion



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Type your questions in the question box!



Contact Our Speakers!

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