Midwest Electric Vehicle Opportunities: Learning, eVents, Experience

- Chicago Area Clean Cities
- Clean Fuels Ohio
- Earth Day Coalition
- Greater Lansing Area Clean Cities
- North Dakota Clean Cities
- South Shore Clean Cities
- Twin Cities Clean Cities Coalition
- Wisconsin Clean Cities
- Argonne National Laboratory
- Make Ideas Reality
- PlugInConnect



Project Period:

10/1/2016 - 9/30/2019



# **Events & Driving Opportunities**

### **25 Large Showcases:**

- 2017 Ohio Earthfest
- 2017 Taste of Chicago
- 2017 Milwaukee Summerfest
- 2017 National Drive Electric Week
- 2018 Twin Cities Auto Show
- 2018 Chicago Auto Show
- 2018 North American
   International Auto Show

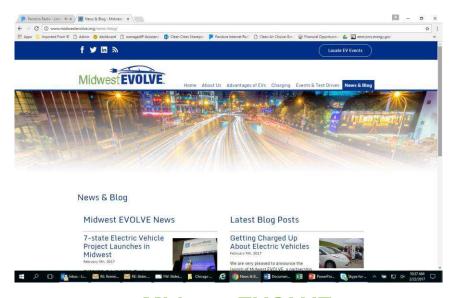
**53 Smaller Showcases** 

**16 EV Dealership Training Events** 

52 Workplace Charging Events + 34 Extended Test Drives

Midwest **E** 

39 EV Forum Events/Meetings



www.MidwestEVOLVE.org
#MidwestEVOLVE

# **Key Stakeholders – 50+**

### **Workplace Charging Locations**

- Anderson Corporation
- Aveda
- Book Factory
- Cincinnati Zoo
- City of Cincinnati
- City of Cleveland, Office of Sustainability
- Grove City
- Health Partners
- IBEW/NECA Technical Institute
- Rife Autobody
- Tennant

### **Utilities**

- ComEd
- Great River Energy
- First Energy
- Madison Gas and Electric Company
- Xcel Energy

### **OEMs and Dealerships**

- Nissan
- Germain Nissan
- Mike Bass Ford
- McCluskey Chevy
- Perillo BMW

# Let's add your company to this list!



# **Key Stakeholders - Continued**

### **Additional Partners**

- Carbon Day
- Clipper Creek
- ChargePoint
- NRG EVgo
- Element Financial Corporation
- E-RIVE
- Great Lakes Renewable Energy Association
- Lake Michigan Clean Cities
   Consortium
- Minnesota Plug-in Electric Vehicle Owners Circle
- Drive Electric Minnesota

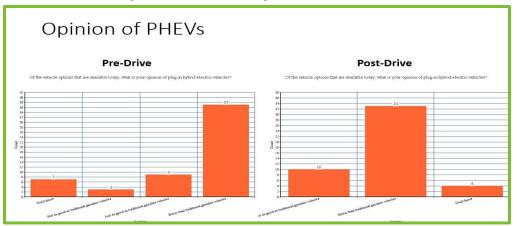
- Fresh Energy
- Minnesota Pollution Control Agency
- Jo Miller & Associates
- Electric Auto Association of Northwest Ohio
- Green Energy Ohio
- Ohio EV Solutions
- Upgrade Athens County
- Marshall Auto Body

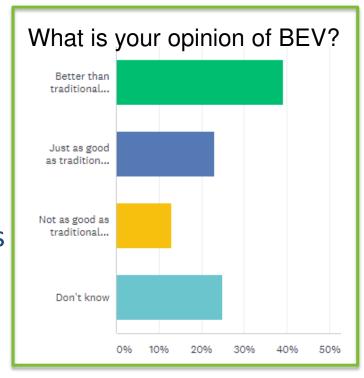




### **Tools & Resources**

- www.MidwestEVOLVE.org
  - Event listing
  - Blogs
  - Vehicles
  - Tools
- EVolution Tool: https://evolution.es.anl.gov/
- Midwest Factsheets & Concept papers
- Surveys & Perceptions









### Consumer Vehicle Purchase Guidance Tool: EVolution-informing your choice for a smart purchase



Is an electric vehicle a smart consumer choice? Absolutely! But first you need the facts about EVs and how they relate to your driving needs. The EVolution consumer choice tool is here to help.

So, what are the benefits of owning an electric vehicle?





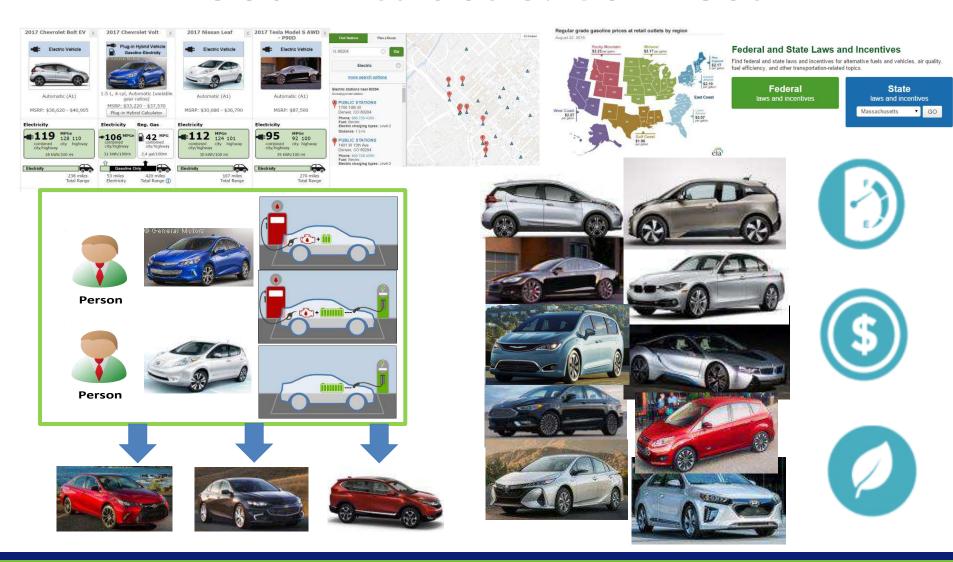


Click here to learn more

Electric Vehicles: What You Need to Know!



### Goal: Attract & Connect



# Interactive Process in 6 steps

#### **Vehicle Selection**

- Type, size, seats, price range
- Comparison across powertrains, maker and models
- Allows for 2 alternative powertrains compared to ICE

### **Location Details (Specific to zip code)**

- Timely fuel price (gasoline, electricity)
- Average travel time, speed
- Links to Workplace/Public charging locations
- Links to local incentives

### Travel and Charging

- Workday travel and other travel (speed, duration, etc.)
- Home, workplace and other charging (duration, charger type)
- Other information (financial, ownership, etc.)

#### **Educational Information about PEVs**

- Types of charging vs. Charging time
- Weather Effects on performance and range
- Energy saving depends on travel pattern, charging rate/time

### **Outputs**

- Savings in \$ and gallons
- Total Cost of Ownership
- Savings as a function of average speed

#### Federal and State Laws and Incentives

Find federal and state laws and incentives for alternative fuels and vehicles, air quality, fuel efficiency, and other transportation-related topics.

Federal laws and incentives









## **Evolution vs. Other EV Tools**

		Information Provided				Inputs/Defaults						Outputs					
Tools	1 LOV 1006/8	Vohick EV	EVSEAVAIONIII.	Customize	Somos Deliver	Daily mile	10/10 Distance	% High.	Charging Faver	See and Berticol	100 May 100 Ma	Flex Cost	70a/0mo/shij	Geomouso omission	Criteria	Model Collutants	Sugasstions
My Plugin Hybrid Calculator					×	×	×	×	×	×	×	×					
AFDC Vehicle Cost Calculator	×	×		_	×	×	×	×	×	×	×	×	×	×			
UC Davis GreenLight EV Explorer	×			×	×	×		×	×	×		×					
Sierra Club		×	×	×	×	×	×	×	×							×	
Go Electric Drive		×	×													×	
My GreenCar (GPS Tracking)		×		×	×	×		×		×	×	×	×	×	×	×	
Nyserda EV Calculator					×	×					×	×	×	×		×	
UC Davis Analytic Tool to Support the Implementation of EV Programs		×		×	×	×	×	×	×	×		×	×				
EVolution	×	×	×	×	×	×	×	×	×	×	×	×	×	×		×	

# **Click for EVolution Tool**

Consumer Vehicle Purchase Guidance Tool: *EVolution-informing your choice for a smart purchase* 



https://evolution.es.anl.gov/



# Midwest Electric Vehicle Opportunities: Learning, eVents, Experience

Twitter: @MidwestEVOLVE

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https://evolution.es.anl.gov/

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