

# The 101 on Electric Vehicles in Minnesota

December 1, 2020  
1:00pm - 2:00pm CT



# Technology Reminders:

- Please type any questions into the chat - questions are welcome!
- All attendees will be muted and have their videos turned off.
- The presentations and recordings will be available on the Plug In America website.



# Minnesotans Going Electric

A Free Six-Part Webinar Series

December 1-4, 2020

- 1. The Role of Cities and Counties in the Shift to Transportation Electrification**
  - December 1, 2020      11:00am - 12:30pm CT
- 2. The 101 on Electric Vehicles in Minnesota**
  - December 1, 2020      1:00pm - 2:00pm CT
- 3. Experience Electric Vehicles in a Virtual Test Drive**
  - December 1, 2020      2:15pm - 3:00pm CT
- 4. How Minnesota Can Lead on Transportation Electrification in 2021**
  - December 3, 2020      10:00am - 12:00pm CT
- 5. Economic Development Opportunities for MN from the Transportation Electrification Sector**
  - December 3, 2020      1:00 - 2:30pm CT
- 6. Expanding Charging for MN Fleets, Workplaces, Multi-Unit Dwellings and Public Locations**
  - December 4, 2020      10:00am - 12:00pm CT

# Minnesotans Going Electric

## Thank you to our partners!





# Minnesotans Going Electric

## Thank you to our partners!



Better Energy. Better World.



# Minnesotans Going Electric

A Free Six-part Webinar Series

December 1-4, 2020

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Register at

<https://www.driveelectricmn.org/webinar-series-minnesotans-going-electric/>



# Our Speakers:



**Brendan Jordan**  
**Lead Facilitator**  
**Drive Electric**  
**Minnesota**



**Katherine Stainken**  
**Policy Director**  
**Plug In America**



**Jukka Kukkonen**  
**Chief EV Educator**  
**Shift2Electric**



**Kevin Schwain**  
**Director of**  
**Program Strategy**  
**& Development**  
**Xcel Energy**



**Lisa Thurstin**  
**Coordinator**  
**Twin Cities Clean**  
**Cities Coalition &**  
**Senior Manager,**  
**American Lung**  
**Association**



# Speaker Bios

- **Brendan Jordan** is the VP of Transportation and Fuels programs at **Great Plains Institute**, and the lead facilitator for **Drive Electric MN**.
- **Katherine Stainken** is Policy Director for **Plug In America**. Prior to her work at Plug In America, Katherine was a Director of Government Affairs at the Solar Energy Industries Association (SEIA), focused on policies to promote solar on the federal level as well as southeast and northeast regions, along with regulatory work at federal agencies. Katherine was also the chief liaison to the solar heating and cooling and EH&S groups at SEIA. She is former Fulbright and Thinkswiss scholar.
- **Jukka Kukkonen** is Chief EV Educator for **Shift2Electric** and teaches EV Market and Technologies at the University of St Thomas. He is also EV Expert for Fresh Energy and coordinates the Minnesota EV Owners group.
- **Kevin Schwain** is the Director of Program Strategy & Development at **Xcel Energy**. In this role, Kevin develops pilots and programs that help customers save money and reduce the impact of their energy usage. Kevin has been with Xcel Energy since 2008 and previously held leadership positions with Target Corporation, Advanced Technology Materials, and Hewlett Packard.
- **Lisa Thurstin** is **Twin Cities Clean Cities Coalition** coordinator and senior manager of the **American Lung Association** in Minnesota Clean Air Choice program. Lisa, has served as the TC4 coordinator since 2007 and worked on alternative fuel and advanced technology development activities in Minnesota and across the upper Midwest since 2001. She has managed a variety of large DOE funded projects with EV focus including Midwest EVOLVE, Twin Cities EV Community and the COOL EVs project.



# Agenda:

1:00	Welcome	Brendan Jordan	Drive Electric MN
1:03	EV basics	Katherine Stainken	Plug In America
1:13	MN Experience	Jukka Kukkonen	Shift2Electric
1:23	Charging EVs & Utilities	Kevin Schwain	Xcel Energy
1:33	Engagement	Lisa Thurstin	EV Driver, Twin Cities
	Clean		Cities Coalition
1:39	Virtual Test Drive	Katherine Stainken	Plug In America
1:43	Q&A		
1:58	Closing	Brendan Jordan	Drive Electric MN





**WE DRIVE ELECTRIC. YOU CAN TOO.**

101 on EVs in Minnesota

December 1, 2020

Katherine Stainken, Policy Director

# Who we are

- **The voice of the EV consumer** – in Minnesota and nationwide
- 501c3 nonprofit founded in 2008
- Our members represent the world's deepest pool of experienced EV drivers
- Two core areas:
  1. Policy and Advocacy
  2. Education and Outreach
    - PlugStar: dealers, consumers, utilities
    - National Drive Electric Week and Drive Electric Earth Day



# Definitions

INTERNAL COMBUSTION ENGINE

ElectrifyTheSouth.org



HYBRID



+



PLUG-IN HYBRID ELECTRIC VEHICLE



+



ELECTRIC VEHICLE





## All Electric Vehicles

sorted by electric range



**Tesla Model S**  
\$85,000 and up  
**310 miles** and up



**Tesla Model X**  
\$88,000 and up  
**270 miles** and up



**Tesla Model 3**  
\$42,900  
**264 miles** and up



**Chevrolet Bolt EV**  
\$36,620  
**238 miles**



**Jaguar I-PACE**  
\$69,500  
**234 miles**



**BMW i3**  
\$44,450  
**153 miles**



**Nissan LEAF**  
\$29,990  
**150 miles**



**Volkswagen e-Golf**  
\$30,495  
**125 miles**



**Hyundai Ioniq Electric**  
\$30,315  
**124 miles**



**Ford Focus Electric**  
\$29,120  
**115 miles**



**Kia Soul EV**  
\$33,950  
**111 miles**



**Honda Clarity Electric**  
\$199/mo. lease only  
**89 miles**



**Fiat 500e**  
\$32,995  
**84 miles**



**Smart EQ fortwo**  
\$23,900  
**58 miles**



## Plug-In Hybrid Vehicles

sorted by electric range



**BMW i3 REX**  
\$48,300  
**153 / 200**



**Chevrolet Volt**  
\$33,520  
**53 / 420**



**Honda Clarity Plug In**  
\$33,400  
**48 / 340**



**Chrysler Pacifica Hybrid**  
\$39,995  
**32 / 520**



**Cadillac CT6 Plug In**  
\$75,095  
**31 / 430**



**Hyundai Ioniq Plug In**  
\$25,350  
**29 / 630**



**Kia Optima Plug In**  
\$35,390  
**29 / 610**



**Ford Fusion Energi**  
\$34,595  
**26 / 610**



**Kia Niro Plug In**  
\$28,500  
**26 / 560**



**Toyota Prius Prime**  
\$27,350  
**25 / 640**



**Mitsubishi Outlander**  
\$34,595  
**22 / 310**



**Volvo S90 T8 Plug In**  
\$63,650  
**21 / 410**



**Volvo XC90 T8 Plug In**  
\$64,950  
**19 / 380**



**Volvo XC60 T8 Plug In**  
\$62,900  
**18 / 370**



**BMW i8**  
\$147,500  
**18 / 320**



**Subaru Crosstrek Hybrid**  
\$34,995  
**17 / 480**



**Porsche Panamera Hybrid**  
\$99,600  
**16 / 480**



**Audi A3 e-tron**  
\$39,500  
**16 / 400**



**BMW 530e Plug In**  
\$63,400  
**16 / 370**



**Porsche Cayenne Hybrid**  
\$79,900  
**14 / 490**



## Plug-In Hybrid Vehicles

sorted by electric range



**BMW 330e Plug In**  
\$45,600  
**14 / 350**



**BMW 740e Plug In**  
\$91,250  
**14 / 340**



**Mini Cooper SE Plug In**  
\$36,800  
**12 / 280**



**Mercedes GLE 550e**  
\$66,700  
**10 / 460**



**Mercedes C 350e**  
\$47,900  
**9 / 410**



# Where to charge

## LEVEL 1 STANDARD OUTLET

- Plug into a standard 120V wall outlet
- Connector provided with every EV
- Great for overnight or workplace charging
- Ideal for typical commutes (up to 40 miles)



**40 miles**  
overnight

## LEVEL 2 240 VOLT OUTLET

- Faster charging for longer drives
- Provides a full charge for most EVs in:



**100% Electric**

**4-8 hours**

empty to full  
charge



**Electric & Gas**

**1-2 hours**

empty to full  
charge



**25 miles**  
per hour of  
charging

## DC FAST CHARGE

- Much faster charging at public locations
- 3 different connectors depending on vehicle:



**CCS Combo**  
**65 miles**  
in 20 minutes



**CHAdeMO**  
**67 miles**  
in 30 minutes

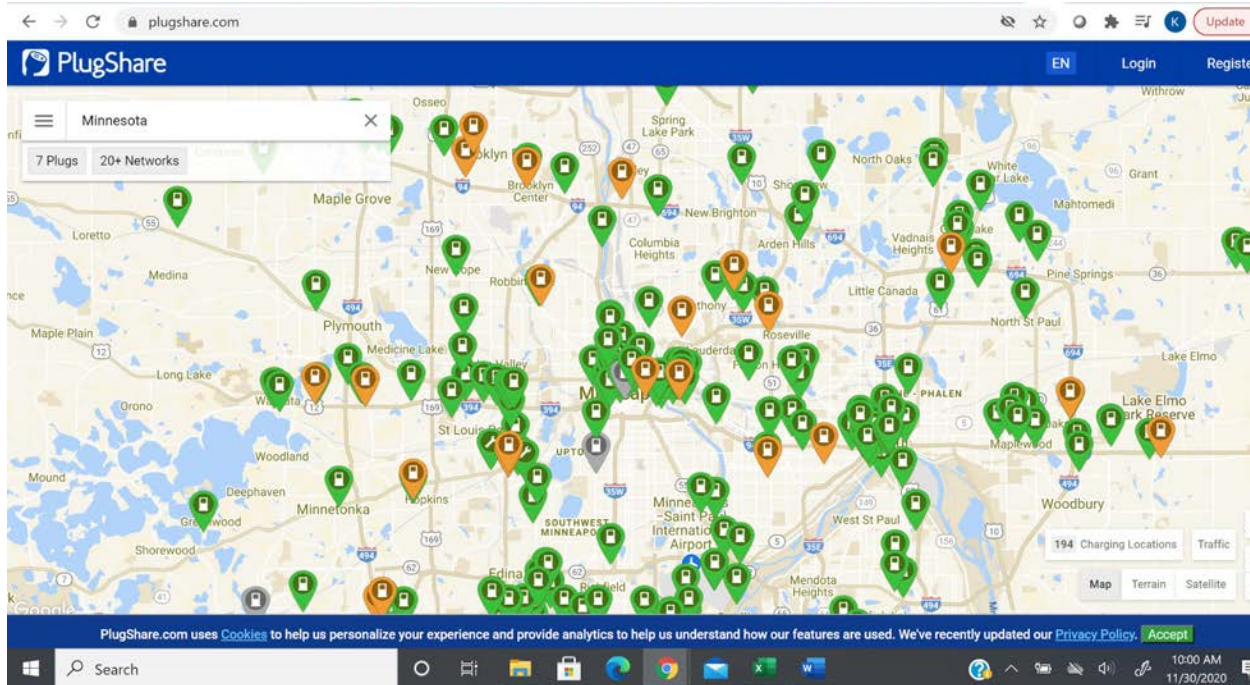


**Tesla Supercharger**  
**130+ miles**  
in 20 minutes



**0 to 80%**  
30-40 minutes

**\*Can be much  
faster depending  
on if 50kW or  
350kW station**



- Plugshare
- Chargepoint
- EVgo
- Blink
- Greenlots
- Volta
- Electrify America
- Tesla
- ...and more!



# Benefits for Consumers



Affordability

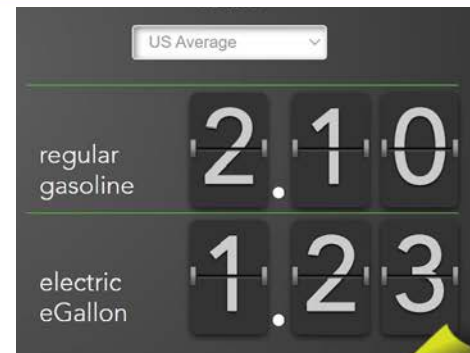
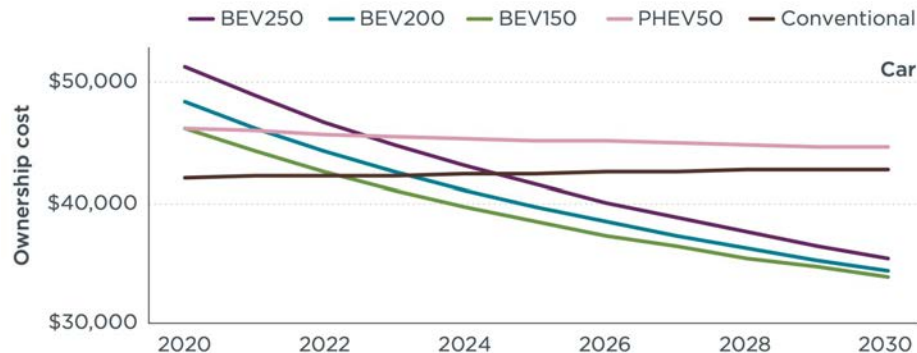
Average maintenance / repair costs over vehicle lifetime:

- BEV: \$0.03/mile
- PHEV: \$0.03/mile
- ICE: \$0.06/mile

*Consumer Reports*



Convenience



*Courtesy of ICCT*

# Benefits for Consumers



**Performance**



# Benefits for Consumers



**Environmental  
Stewardship**



**Air Quality**



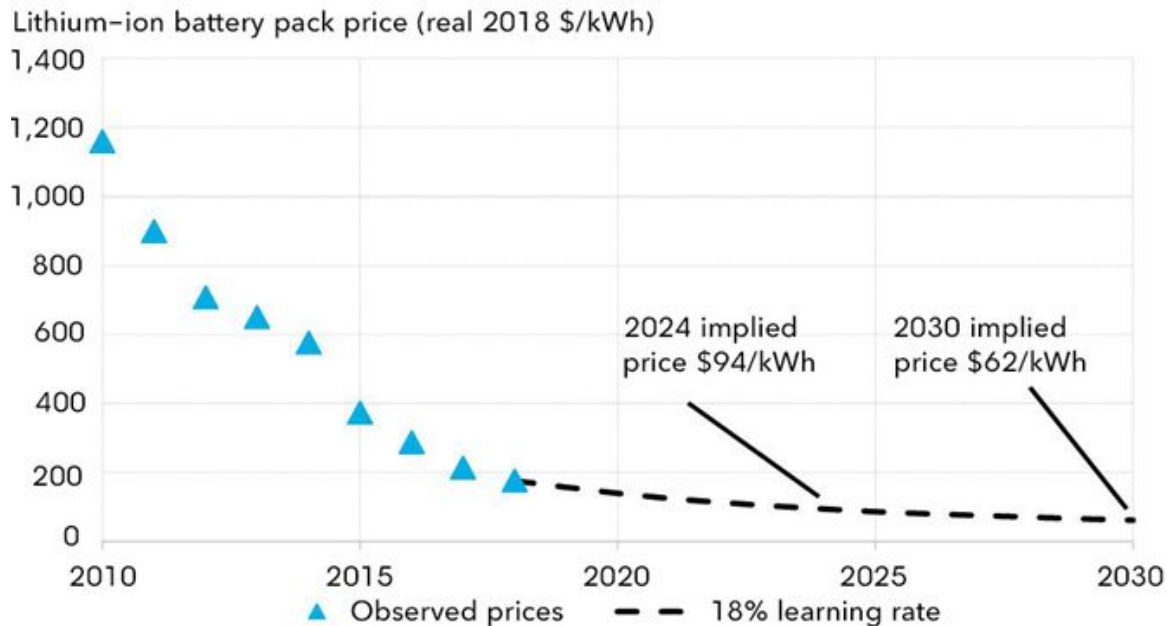
**National Security**





# Battery Prices are Falling

## Lithium-ion battery price outlook



Source: BloombergNEF

## Nationwide Sales

Cumulative Sales from 2011 to 2020

1,571,404

EV Sales

984,669

BEV Sales

586,735

PHEV Sales

70 Models

EV Models

24 Makes

EV Makes

BEV

984,669

PHEV

586,735

GAS PRICES

EV MARKET SHARE

EV Sales & EV Share of Total Market from 2017 to 2020

Date Filter

1/1/2017

7/1/2020

- Audi
- BMW
- Chevrolet
- Fiat-Chrysler
- Ford
- Honda
- Hyundai
- Kia
- Mercedes-Benz
- Nissan
- Other
- Tesla
- Toyota
- Volkswagen
- EV Share of All Light-Duty
- EV Share of Passenger Cars



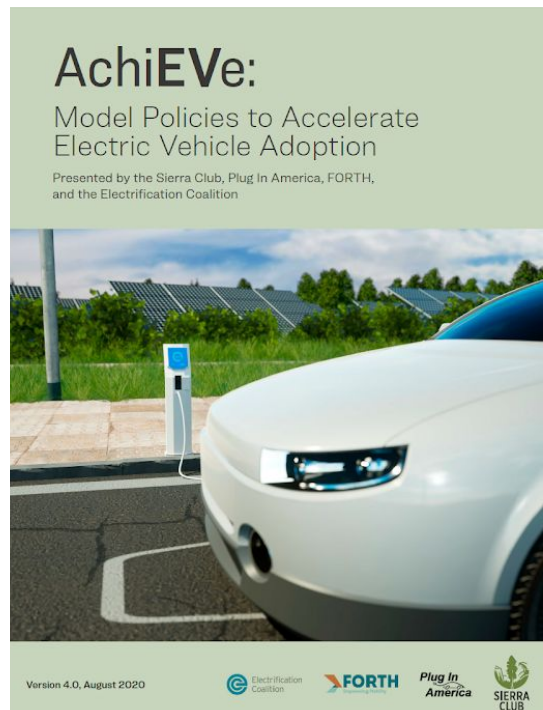
Cumulative Sales from 2011 to 2020

EV Share of All Light-Duty & Passenger Cars



Courtesy of  
Atlas Public  
Policy  
EVHub

- Collaboration between PIA, Sierra Club, Electrification Coalition, Forth Mobility
- Designed for 6 key stakeholder groups:
  - Legislators; Governor's offices / state agencies; transit agencies; cities and local government, businesses; regulators & utilities
- Various categories of policies
  - Enable vehicle purchase
  - Increase charging infrastructure
  - Prioritize equity and expand access
  - Electrify fleets
  - And more!



# Other ways to get involved....

- National Drive Electric Week
  - Sept. 25 – Oct. 3, 2021
  - [driveelectricweek.org](http://driveelectricweek.org)
- Drive Electric Earth Day
  - April 2021
  - [driveelectricearthday.org](http://driveelectricearthday.org)



## United States National Online Events

Event	Day(s)
<a href="#">New EVs - First Look</a>	Sep 29, 2020
<a href="#">Home EV Charging Station Installation Walk Through</a>	Sep 27, 2020
<a href="#">EV Battery Recycling/Reuse</a>	Oct 02, 2020
<a href="#">NDEW Kick-Off Event</a>	Sep 24, 2020
<a href="#">EV Batteries: Straight Talk Edition</a>	Sep 28, 2020
<a href="#">Find Your Perfect Match: EV Speed Dating</a>	Sep 27, 2020
<a href="#">EV Trivia Happy Hour</a>	Sep 29, 2020
<a href="#">The Policies Driving EV Adoption Forward</a>	Oct 01, 2020
<a href="#">An Evening of Electrified Classic Cars</a>	Sep 30, 2020
<a href="#">Electrify Your Ride to School</a>	Oct 01, 2020
<a href="#">EVs and Solar: Driving on Sunshine</a>	Sep 29, 2020
<a href="#">EV Myth Busting: Fact vs Fiction</a>	Sep 28, 2020
<a href="#">Electric Cars and Vehicle to Grid Technology</a>	Sep 28, 2020
<a href="#">EVs and Charging at the Workplace</a>	Sep 30, 2020
<a href="#">EVs for All: Making EV Ownership More Inclusive</a>	Oct 02, 2020
15 Events	

Here is information on 14 events that may interest you. You can RSVP to attend any of these events.

### Local Online Events

<b>Columbus, OH</b> Sep 30, 2020	<b>Topics</b> Driving Experience Environmental Benefits Other	<input type="button" value="RSVP"/>
<b>Columbus, OH</b> Oct 03, 2020	<b>Topics</b> Driving Experience Local Public Charging EV 101	<input type="button" value="RSVP"/>
<b>Lexington, KY</b> Oct 04, 2020	<b>Topic</b> Various	<input type="button" value="RSVP"/>
<b>Erie, PA</b> Erie, Pennsylvania Sep 26, 2020	<b>Topics</b> Cost of Ownership Driving Experience EV 101	<input type="button" value="RSVP"/>
<b>Louisville, KY</b> Oct 03, 2020	<b>Topic</b> Various	<input type="button" value="RSVP"/>

### Local In-Person Events

<b>Columbus, OH</b> Sep 26, 2020	<b>Topics</b> Driving Experience EV 101 Local Public Charging	<input type="button" value="RSVP"/>
<b>Perrysburg, OH</b> The Town Center at Levis Commons Sep 26, 2020	<b>Topic</b> Various	<input type="button" value="RSVP"/>
<b>Avon Lake, OH</b> Avon Lake Public Library Sep 26, 2020	<b>Topic</b> Various	<input type="button" value="RSVP"/>
<b>Independence, OH</b> Independence Court Parking Lot Sep 29, 2020	<b>Topic</b> Various	<input type="button" value="RSVP"/>
<b>Cleveland, OH</b> West Side Market Parking Lot Sep 30, 2020	<b>Topic</b> Various	<input type="button" value="RSVP"/>
<b>Windsor, OH</b> Green Sun Rising / Renewable Energy Technology Centre Sep 26, 2020	<b>Topic</b> Various	<input type="button" value="RSVP"/>

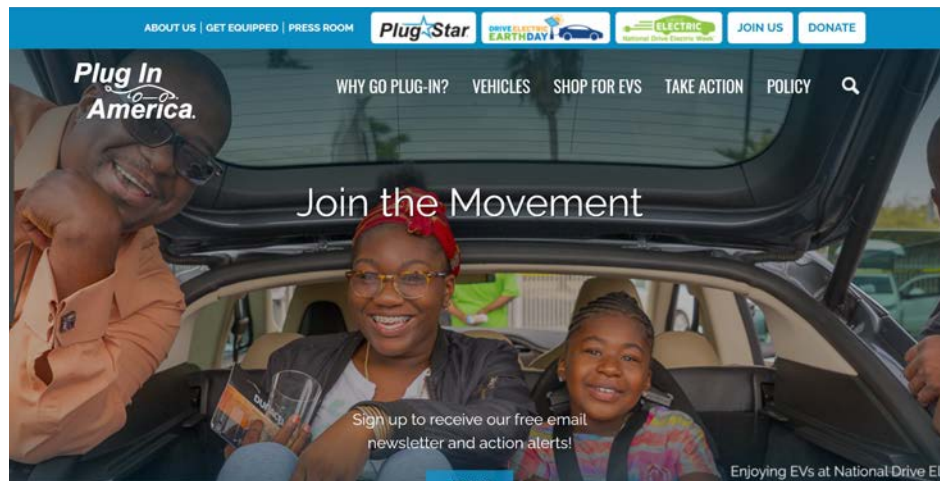
# Thank you!

Katherine Stainken

Policy Director

[kstainken@pluginamerica.org](mailto:kstainken@pluginamerica.org)

[www.pluginamerica.org](http://www.pluginamerica.org)

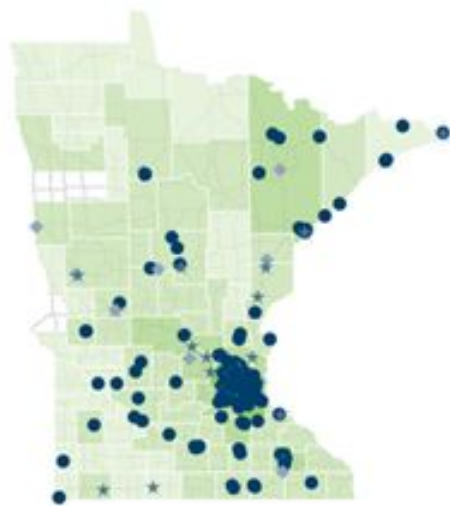






# Electric Vehicles in Minnesota

Jukka Kukkonen  
**Shift2Electric**  
jukka@Shift2Electric.com



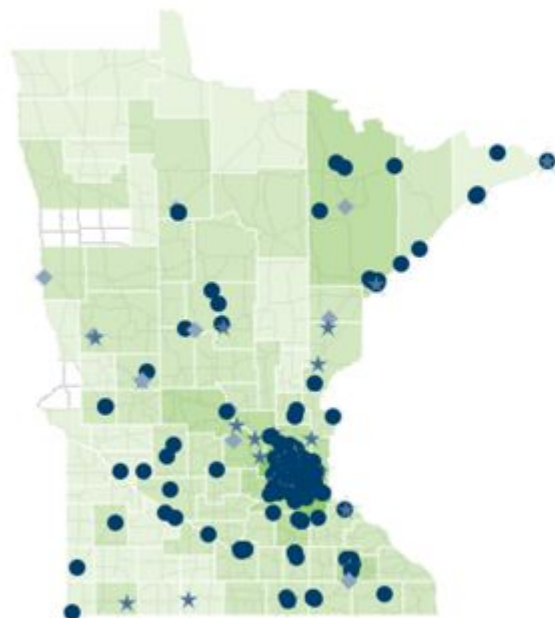
Models available in Midwest



Photos: Vehicle manufacturers

PlugInConnect.com





## Electric Vehicle Dashboard

### Charging stations

Level 2 charger	DC fast charger	Total
824	187	1,011

Total vehicles per Level 2 charger	Total vehicles per DC fast charger
18	77

### Vehicles

Battery electric vehicles (BEV)	Plug-in hybrid electric vehicles (PHEV)	Total
7,808	6,676	14,484

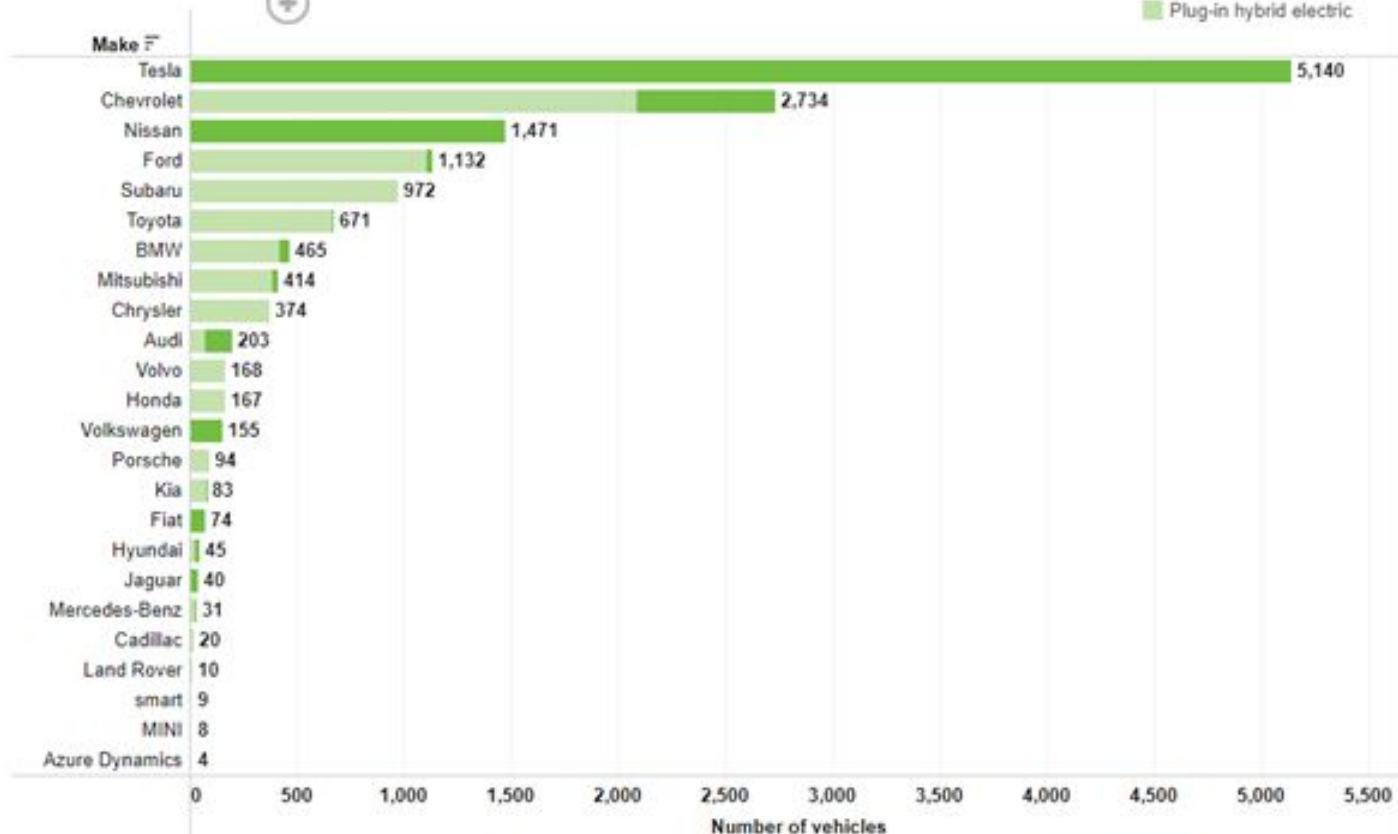


## Electric Vehicle Dashboard

### Vehicle details



Battery electric  
Plug-in hybrid electric



[Download data](#)

Last update :  
September 9, 2020

Shift2Electric.com



# MN EV Owners

- ▶ Started 2012
- ▶ Over 2000 members
- ▶ Meetings, events, experience sharing

[www.MNEVOwners.org](http://www.MNEVOwners.org)

[Facebook.com/groups/mnevowners](https://Facebook.com/groups/mnevowners)



**MN EV Owners**

**Join us to drive the change!**

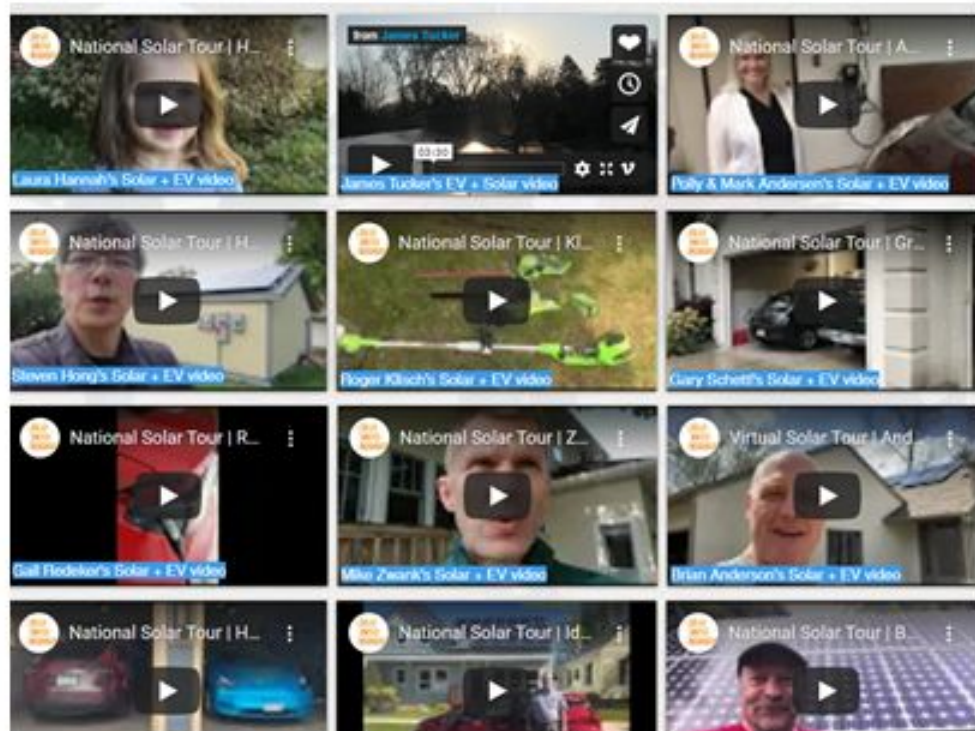
MN Electric Vehicle Owners (MNEVO) provides a forum for Minnesota plug-in vehicle (BEV and PHEV) owners to connect, share their experiences and learn more about EV related topics. We meet every second month in various locations. Our membership and meetings are free and open to anyone who owns or is interested in shifting to drive electric. MN EV Owners is a chapter of the National [Electric Auto Association](#).

[Join our mailing list](#)



# EV Experience Gallery

([www.MNEVOwners.org](http://www.MNEVOwners.org))



Manufacturer			Range										Charging speed (miles/hr)				Performance			
Make	Model	Photo	Seating	EV Type	FWD/ RWD/ AWD	Base MSRP	Federal tax credit	Price after federal tax credit	Battery size (kWh)	Electric Range (miles)	Total Range (miles)	Charging rate (kW) L1/DCFC	Level 1 120V	Level 2 240V	DCFC 400V	MPGe/ MPG	Top Spd (mph)	0-60 mph (sec)	Towing capacity (lbs)	Crash Rating: NHTSA
Audi	e-tron		5	BEV	AWD	\$74,800	\$7,500	\$67,300	95	204	204	11/130	3	24	228	74	155	5.5	4000	Top Safety Pick + / Not rated
Audi	Q5 e		5	PHEV	AWD	\$53,900	\$6,712	\$46,188	14.1	20	390	7.4	2	14	N/A	61/27	130	5	4800	Good/ Not rated
Audi	A8L PHEV		5	PHEV	AWD	\$94,000	\$6,795	\$87,205	14.1	17	420	7.4	2	12	N/A	54/23	130	4.9	0	Not Rated
BMW	i3		4	BEV	RWD	\$44,450	\$7,500	\$36,950	42	153	153 (200)	7.4/50	4	27	147	124 (100)	93	6.9-7.2	0	Good- Acceptable/ Not rated
BMW	i8		4	PHEV	AWD	\$147,500	\$3,795	\$143,705	7.2	15	330	3.3	3	7	N/A	76/28	155	4.2	0	Not rated/ Not rated
BMW	X3 xDi																			Top Safety Pick + / Not rated
BMW	5B																			Top Safety Pick + / Not rated
BMW	745e		5	PHEV	AWD	\$95,550	\$5,836	\$89,714	12	16	290	3.7	2	6	N/A	56/22	155	4.9	0	Not rated / Not rated
Chevrolet	Bolt EV		5	BEV	FWD	\$36,620	\$5,875	\$30,745	66	259	259	7.2/50	4	25	140	118	98	6.5	0	Top Safety Pick / 5 star
Chrysler	Pacifica Hybrid (PHEV)		7	PHEV	FWD	\$38,995	\$7,500	\$31,495	18	33	570	6.8	3	16	N/A	84/32	107	7.8	0	Top Safety Pick / 5 star
Ford	Fusion Energi		5	PHEV	FWD	\$35,000	\$4,609	\$30,391	9	26	610	3.3	3	9	N/A	97/42	85	8.5	0	Good/ 5 star
Honda	Clarity PHEV		5	PHEV	FWD	\$33,400	\$7,500	\$25,900	17	48	340	6.8	4	22	N/A	133/43	110	8.8	0	Not rated/ Not rated
Jaguar	I-PACE		5	BEV	AWD	\$69,850	\$7,500	\$62,350	90	246	246	7.0/85	3	16	153	76	124	4.5	0	Not rated
Kia	Niro PHEV		5	PHEV	FWD	\$28,500	\$4,543	\$23,957	8.9	26	560	3.3	4	10	N/A	105/46	107	9	0	Top Safety Pick + / 4 star

This table is updated by Jukka Kukkonen, Shift 2 Electric.

Photos and information sources: Manufacturers' websites and www.fueleconomy.gov

Get the latest version: www.EVInfoList.com

# Vehicle availability

- EV availability at dealers is generally very poor
- 1 Ford Fusion Energi (PHEV)  
vs.  
278 Fusion ICE or hybrid
- 5 Toyota Prius Prime  
vs.  
136 Toyota Prius

Make and Model	Number of dealers in MN	New vehicles at dealers
Audi e-tron		25
Audi Q5 e		4
Audi A8L PHEV	4	1
BMW i3		0
BMW X5 xDrive40e		0
BMW 330e		2
BMW 530e		0
BMW 745e	3	0
Chevrolet Bolt EV	95	95
Chrysler Pacifica Hybrid (PHEV)	64	28
Ford Fusion Energi	82	1
Honda Clarity PHEV	13	0
Jaguar I-PACE	2	9
Kia Niro PHEV	10	8
Mercedes-Benz GLC350e	4	0
Mini Cooper S E	1	0
Mitsubishi Outlander PHEV	4	82
Nissan Leaf	15	15
Porsche Panamera S E-hybrid		2
Porsche Cayenne S E-hybrid		3
Porsche Taycan	2	14
Tesla Model 3		Well available
Tesla Model S		Well available
Tesla Model Y		Well available
Tesla Model X	2	Well available
Toyota Prius Prime	17	5
Volvo S60 T8		0
Volvo S90 T8		2
Volvo XC60 T8		0
Volvo XC90 T8	2	0
Total	320	296
All light duty vehicles at MN dealers		43069

2020 Fusion Plug-In Hybrid  
Titanium

**\$4609 Tax Credit!**



2020 Fusion Titanium

[View Local Inventory](#)

[Build & Price](#)



Starting at  
**\$35,000**

MPG (City/Hwy)  
**109/97**

Leasing for  
**5**

Some models finance at 1.9%  
**\$449/mo**  
2024-01-01/2024-12-31

Starting at  
**\$34,450**

MPG (City/Hwy)  
**21/31**

Leasing for  
**5**

Some models finance at 1.9%  
**\$438/mo**  
2024-01-01/2024-12-31

[— COLLAPSE ALL](#)

2021 Toyota  
**Prius Prime LE**  
1.8L 4-Cyl. ECVT Hybrid

[CHANGE VEHICLE](#)

2021 Toyota  
**Prius**  
LE FWD

[CHANGE VEHICLE](#)

2021 Toyota  
**Corolla Hatchback**  
SE AT

[CHANGE VEHICLE](#)

Estimated Combined  
(MPGe)

133

**BEST**

52

35

MSRP

\$28,220

\$25,735

\$21,665

Federal tax credit

-\$4,502  
**\$23,718**



# MNEVBuyer.com



Get e-news

Charging

Economics

EV Sales Savvy

Questions?



## Info for EV buyers in Minnesota.

All about charging

Economics

Connect with  
your utility company

This site is brought to you by **Fresh**  **Energy** and **SHIFT2**  **ELECTRIC**

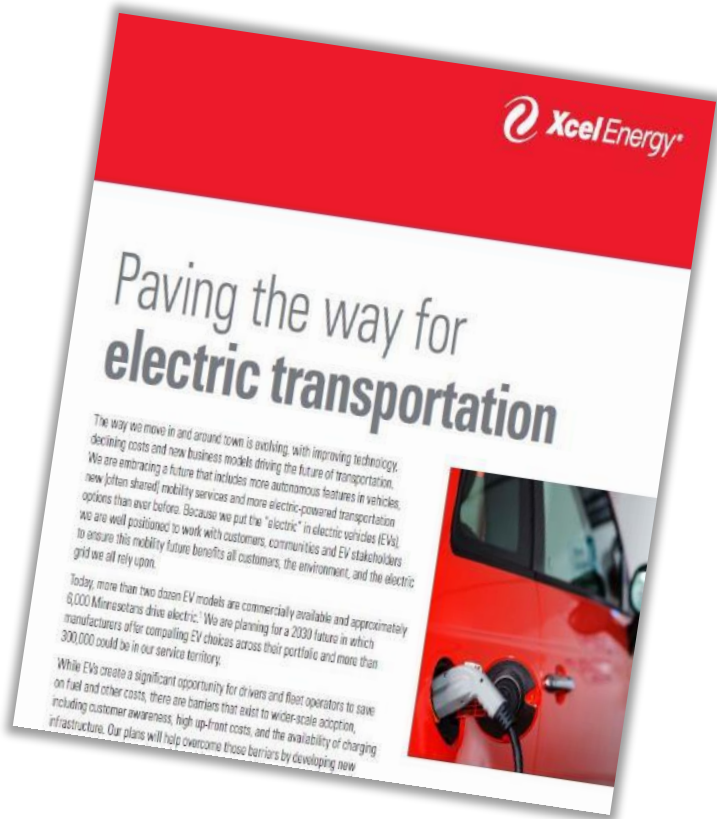
Shift2Electric.com





**Electric Vehicles**

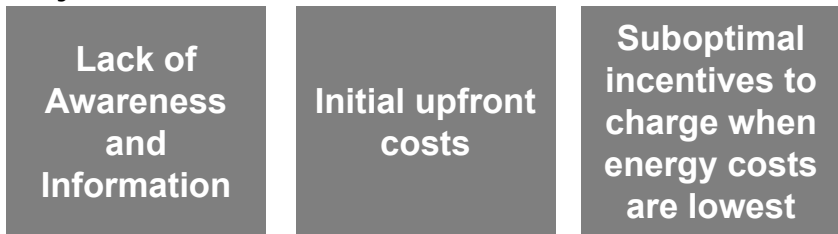
# Our EV Plan



## Focus on 3 Market Segments:



## Key Barriers to Address:



# Our Company-Wide EV Vision



## **1.5 MILLION EVs**

On the road in the areas we serve by 2030, replacing gas-powered models

That's **20% of all vehicles**, a **30-fold** increase in EVs



## **\$1 BILLION**

In customer fuel savings annually by 2030

An EV would cost **\$700 less per year** to fuel than a gas-powered car

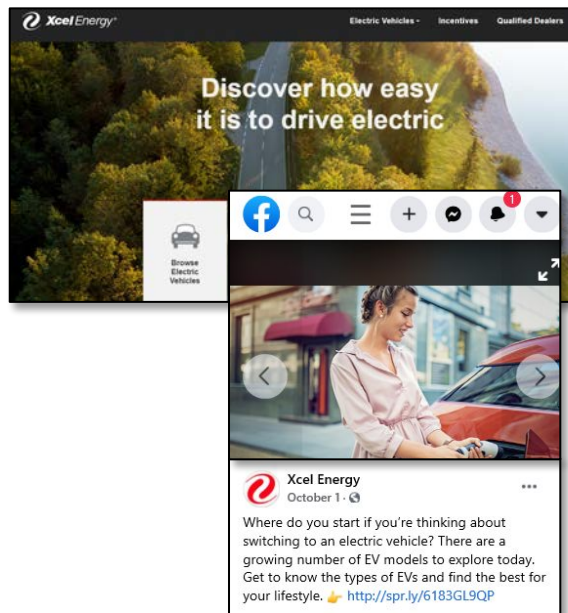


## **5 MILLION TONS OF CARBON EMISSIONS**

Eliminated annually by 2030 with our clean energy

That's about **3 tons of carbon reduction** per vehicle

# Increasing awareness with advisory services



Awareness

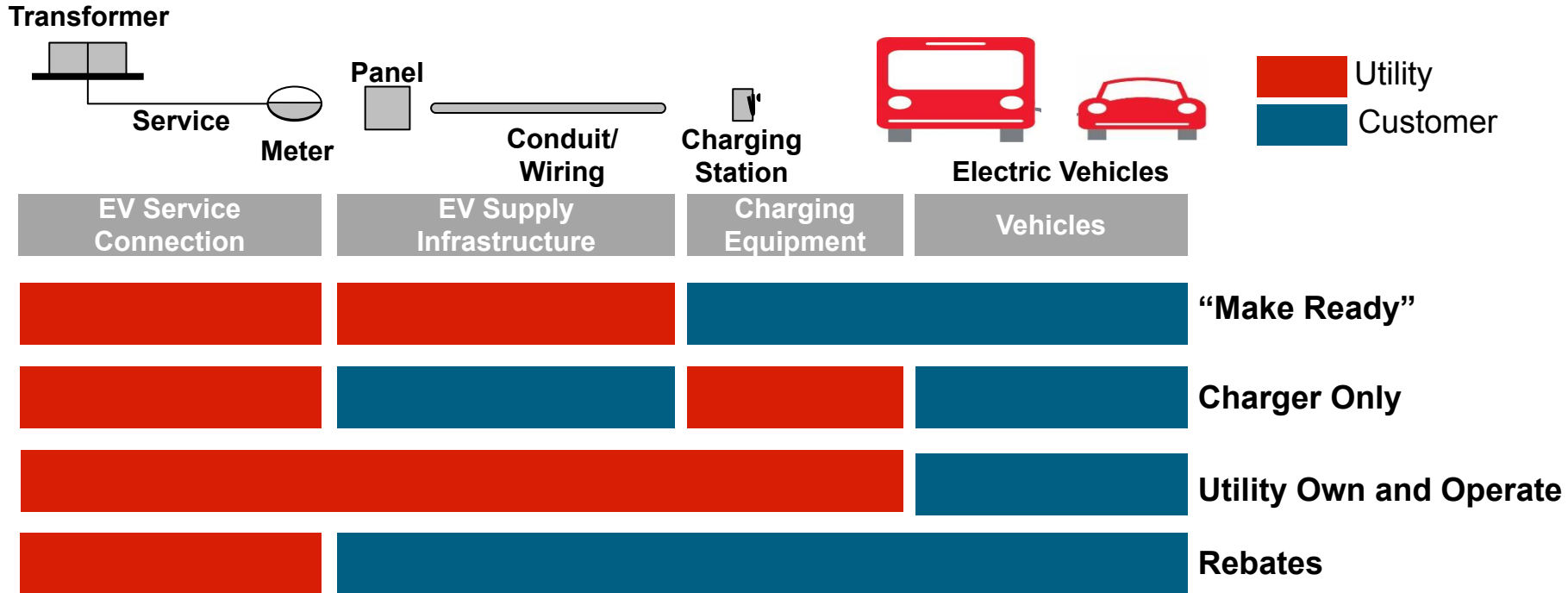


Outreach



Education

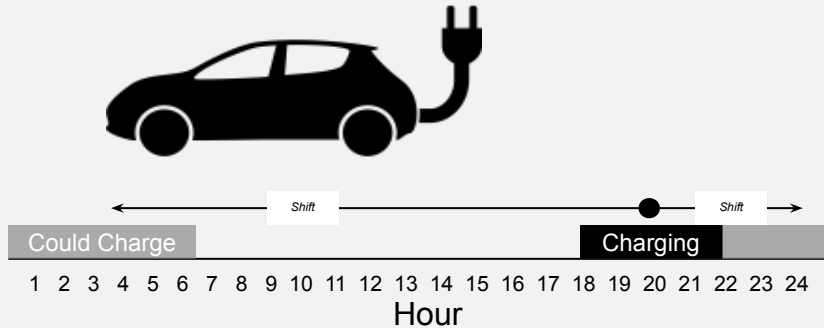
# Increasing access by lowering upfront costs





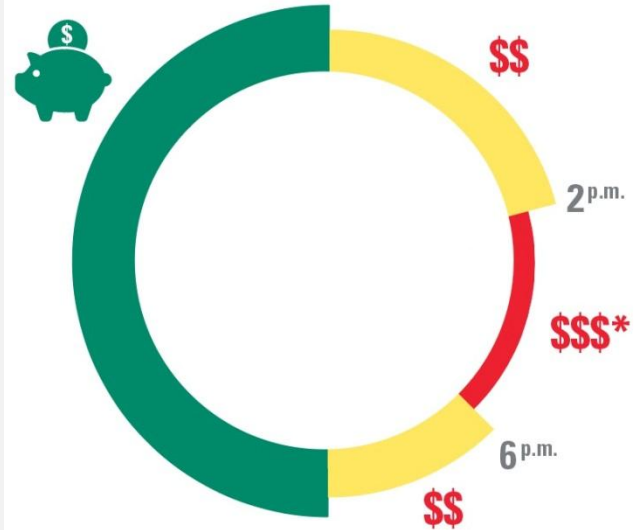
# Reducing customer bills with optimization

Smart Charging



*Illustrative*

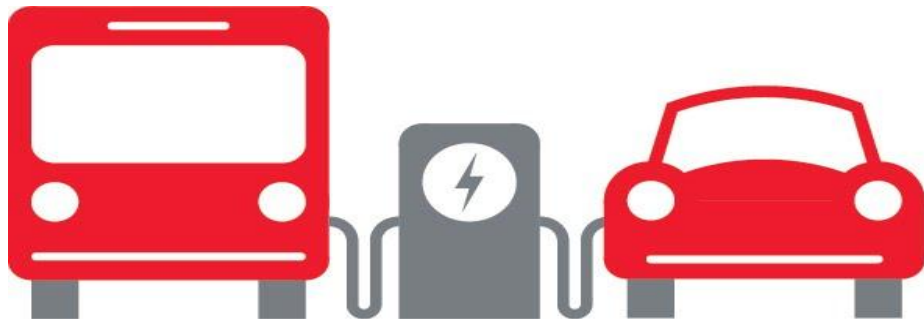
Time of Use Pricing



*Illustrative*

\*Not included on weekends

# Why focus on fleets?



## Objective:

Provide new services aimed at reducing total cost of ownership and system costs

## *Rationale:*

Size of fleets

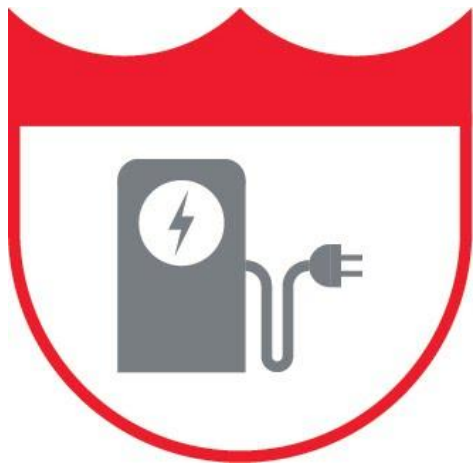
Focus on economics

Opportunity to support first-movers

Potential evolution in mobility services that will rely more on fleets

Pilot approaches and establish key learnings that can be scaled to other market segments

# Why focus on public fast charging?



## **Objective:**

Increasing fast charging infrastructure to reduce “range anxiety”

## ***Rationale:***

Address range anxiety

Support longer distance driving

Provide a charging solution for those who can't charge at home

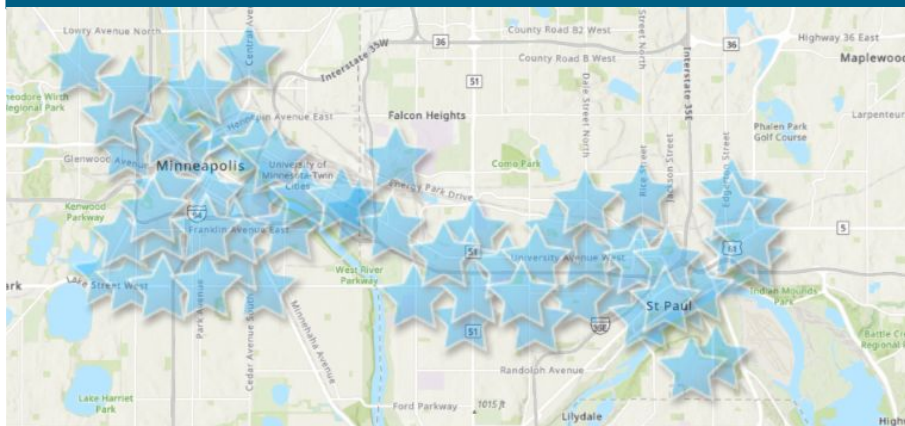
Make up for lack of infrastructure

Standalone economics for fast charging have generally been insufficient to drive required investment

Potential evolution in mobility services that will rely more on sharing

# Public Charging Pilot

## Community Charging Hubs



We are partnering with communities, charging network providers, and shared mobility companies to help customers:

- Access new, low-cost mobility services
- Provide sufficient network coverage for shared mobility, while also enabling public charging
- Lower upfront costs for building out network by providing Make Ready services
- Locate vehicles and charging infrastructure in diverse communities





# The 101 on EVs for Minnesota: The Future of Transportation is Electric

## Engagement in Community and Partners to Accelerate EVs



Lisa Thurstin | Senior Manager

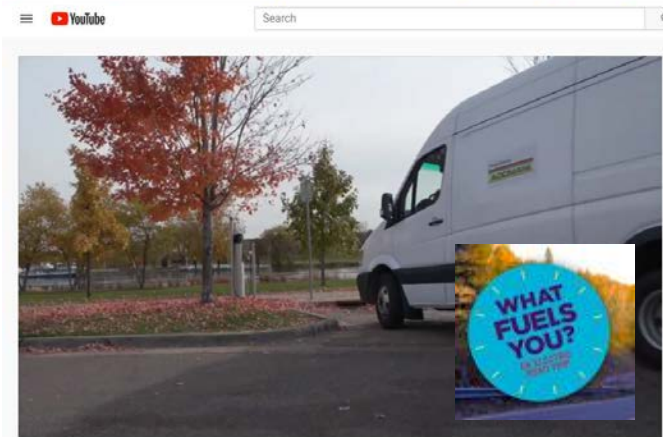
651.223.9568 | [lisa.Thurstin@lung.org](mailto:lisa.Thurstin@lung.org)



# Engagement



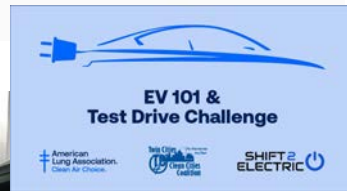
Michigan 2 Montana: National Alternative Fuel Corridor | MotorWeek Auto World



AMERICAN LUNG ASSOCIATION  
Medium and Heavy Duty 100% EVs are Here!



## Virtual, In-person & Hybrid Engagement



# Resources

Midwest EV Info List (October 2020)

Page 1 of 3

Manufacturer			Seating	EV Type	FWD/ RWD/ AWD	Base MSRP	Federal tax credit	Price after federal tax credit	Battery size (kWh)	Range		Charging rates (kW) L2/DCFC	Charging speed (miles/hr)			MPGe/ MPG	Performance		Crash Ratings: NHTSA/IIHS
Make	Model	Photo								Electric Range (miles)	Total Range (miles)		Level 1 120V	Level 2 240V	DCFC 400-V+		Top Spd (mph)	0-60 mph (sec)	
Audi	e-tron																4000		Top Safety Pick + / Not rated
Audi	e-tron Sport																4000		Top Safety Pick + / 5 star
Audi	Q5																4400		Good/ Not rated
Audi	ABL P																0		Not Rated
BMW	i3																7.2	0	Good-Acceptable/ Not rated
BMW	X3 xDrive30e		5	PHEV	AWD	\$49,600	\$5,836	\$43,764	12	18	340	3.7	2	7	N/A	60/24	130	5.9	Top Safety Pick + / Not rated
BMW	X3 xDrive45e		5	PHEV	AWD	\$65,400	\$7,500	\$57,900	24	31	400	3.7	2	7	N/A	50/2			
BMW	330e		5	PHEV	WD/ AW	\$44,550	\$5,836	\$38,714	12	23	320	3.7	3	8	N/A	75/2			
BMW	530e		5	PHEV	RWD/ AWD	\$57,200	\$5,836	\$51,364	12	21	350	3.7	3	8	N/A	69/2			
BMW	745e		5	PHEV	AWD	\$95,900	\$5,836	\$90,064	12	16	290	3.7	2	6	N/A	56/2			
Chevrolet	Bolt EV		5	BEV	FWD	\$36,620	50	\$36,620	66	259	259	7.2/50	4	25	140	116			
Chrysler	Pacifica Hybrid (PHEV)		7	PHEV	FWD	\$38,100	\$7,500	\$30,600	16	33	570	6.6	3	16	N/A	84/5			

[www.EVInfoList.com](http://www.EVInfoList.com)

Midwest EV Info List (Updated 10/2020)

US EV Info List (Updated 10/2020)

How to provide EV charging for condominium and apartment buildings Guide/Worksheets

[www.mudcharging.com](http://www.mudcharging.com)

Midwest EVOLVE

American Lung Association. Call Our Help Line. Ask a Question.

Lung Health & Diseases. Quit Smoking. Clean Air. Research & Reports.

Home > Clean Air > Road to Clean Air - Electric Vehicle Report

### Electric Vehicle Report

The Road to Clean Air

The transportation sector is a leading contributor to both climate change and air pollution. With nearly half of Americans living with unhealthy air, and climate change making it harder to protect public health today, "The Road to Clean Air" report highlights the potential for major public health and climate change benefits through a robust nationwide transition to electric vehicles.

[DOWNLOAD REPORT](#)



Electric Vehicles Charging Communities About Us The Latest Search Events

New Incentive to Promote Electric Vehicles in Minnesota

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



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

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!

# Virtual Test Drive



# Closing Reminders:

**Recordings available here:**

<https://pluginamerica.org/policy/webinar-series-minnesotans-going-electric/>

- Plug In America
  - [www.pluginamerica.org](http://www.pluginamerica.org)
  - Dean Taylor, Senior Policy Advisor: [dtaylor@pluginamerica.org](mailto:dtaylor@pluginamerica.org)
- Drive Electric Minnesota
  - [www.driveelectricmn.org](http://www.driveelectricmn.org)
  - [info@driveelectricmn.org](mailto:info@driveelectricmn.org)
- Xcel Energy
  - [www.xcelenergy.com](http://www.xcelenergy.com)
- Sustainable Growth Coalition
  - <https://environmental-initiative.org/work/sustainable-growth-coalition/>
  - Amy Fredregill, Managing Director: [afredregill@en-in.org](mailto:afredregill@en-in.org)

