

MACOG NDEW VIRTUAL EV EXPERIENCE

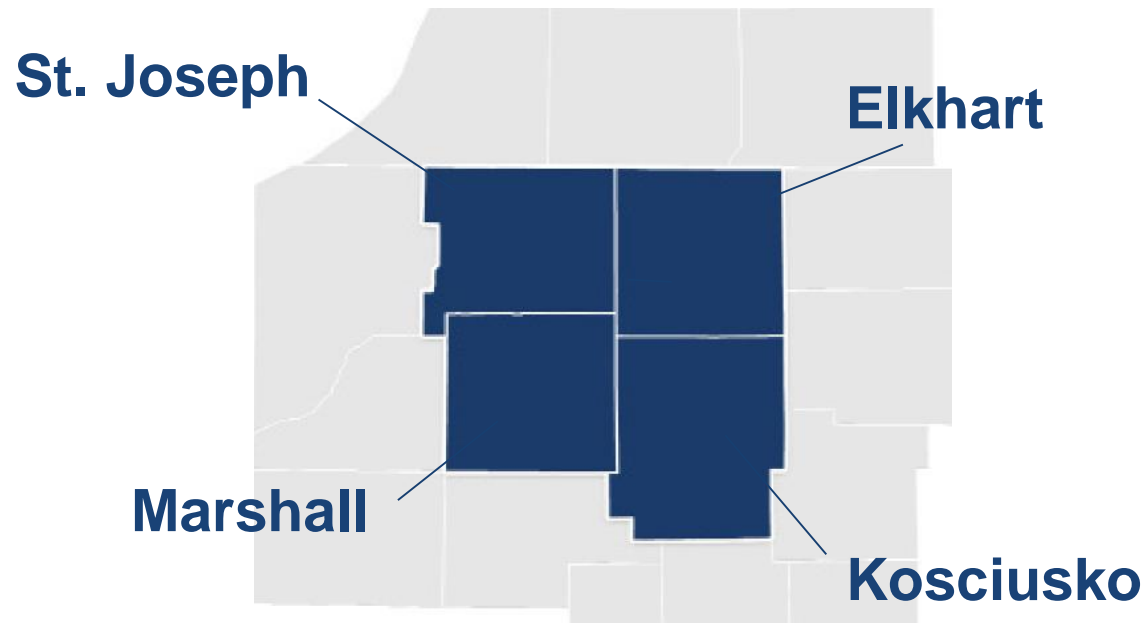
NDEW Virtual Electric Vehicle Experience




12 p.m.-1:15 p.m. Eastern | Sept. 29, 2020



Event Partners

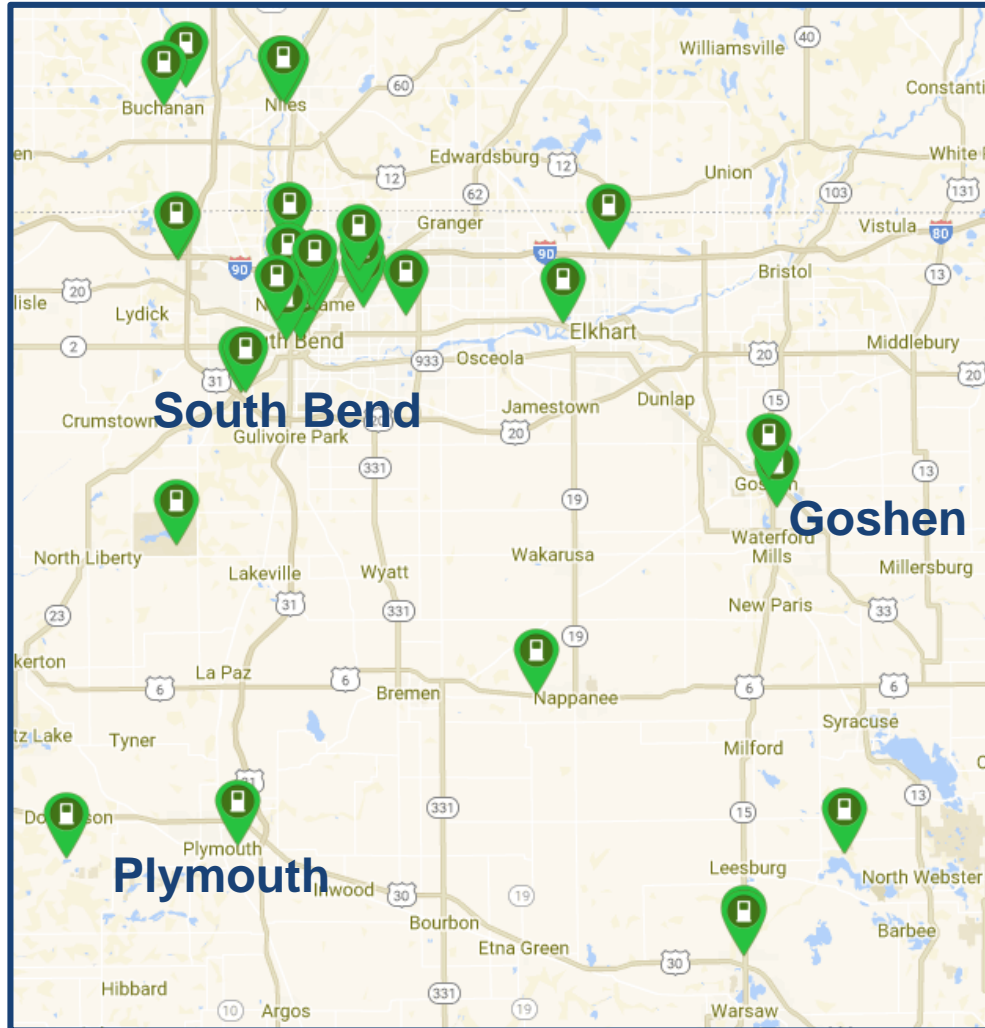


Local EV Drivers

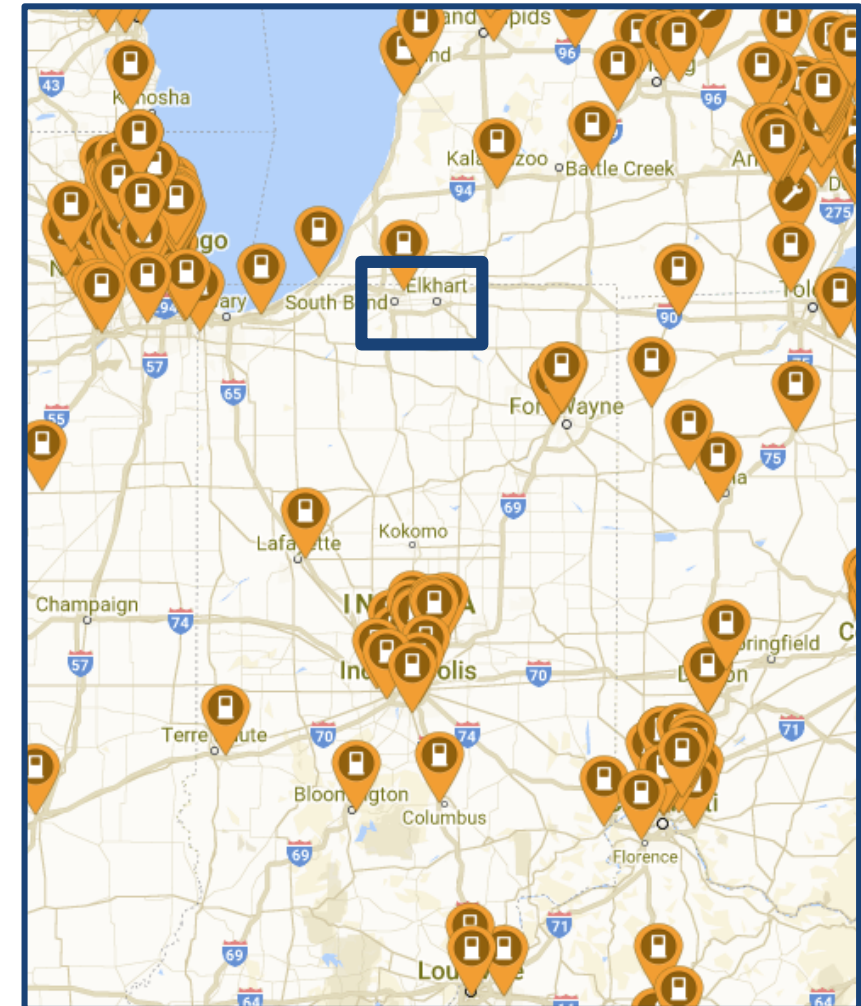
- **Leah Thill** – 1 all-electric vehicle
 - **Sheila McCarthy** – 2 all-electric vehicles
 - **Rachel Novick** – Plug-in hybrid minivan
 - **City of Goshen** – All-electric vehicle & Hybrid Police vehicles
 - **Adam Thada** – Plug-in hybrid and plug-in fleet vehicles at work.
 - **Tim Peters** – Plug-in hybrid
- 
- A decorative graphic consisting of several parallel diagonal lines in a dark blue color, located in the bottom right corner of the slide.

Local Charging Stations

Level 2 “Destination” Charging in Northern Indiana

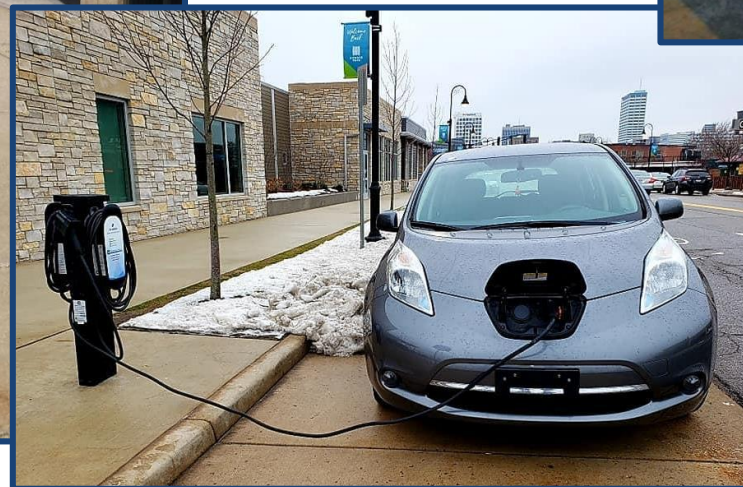


Level 3 Fast Charging near Indiana (Non-Tesla)



Free Public Charging Stations

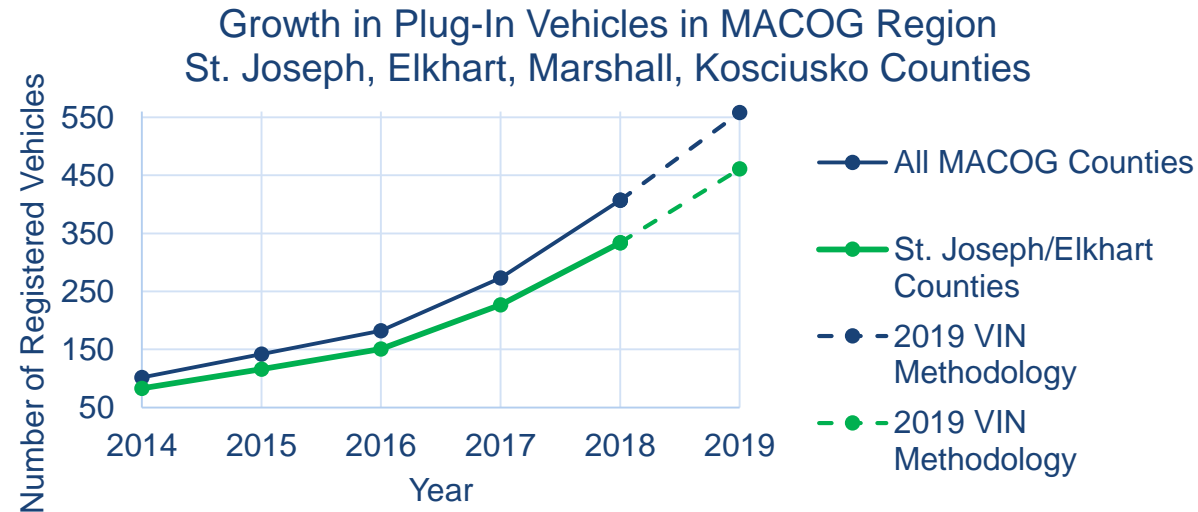
Downtown South Bend & Howard Park



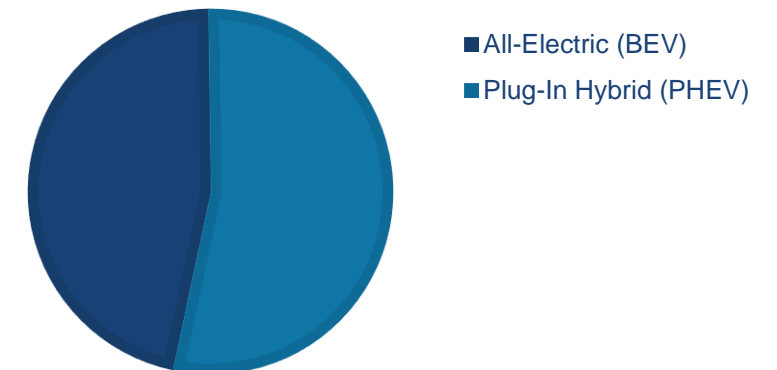
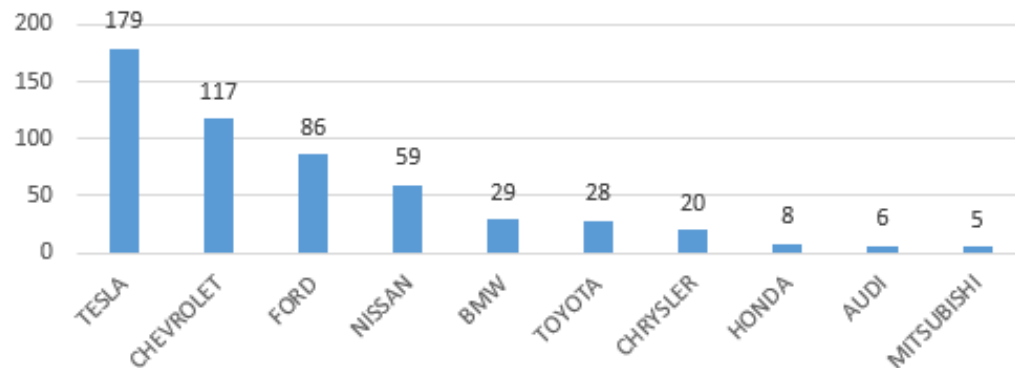
Downtown Goshen – City Hall



Adoption of Electric Vehicles



Top 10 Plug-In EV Manufacturers,
MACOG Region, 2019
Total PEVs: 558



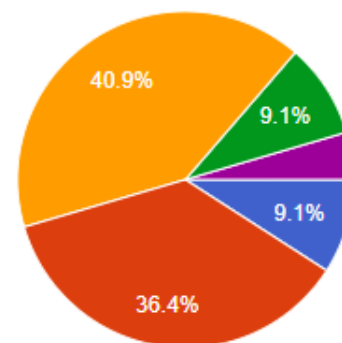
TYPE OF PEV IN MACOG REGION, 2019

Local EV Drivers Survey



How long have you been driving a plug-in vehicle?

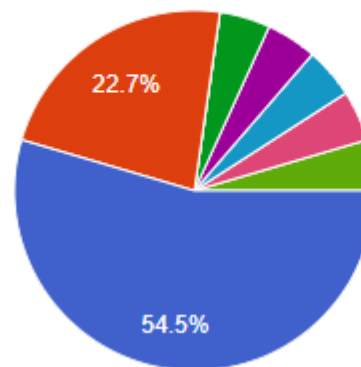
22 responses



- Less than 1 year
- 1 year - 2 years
- 3 - 5 years
- More than 5 years
- I do not yet have a plug-in vehicle but am seriously considering it.

Most of the time, how do you charge your vehicle?

22 responses



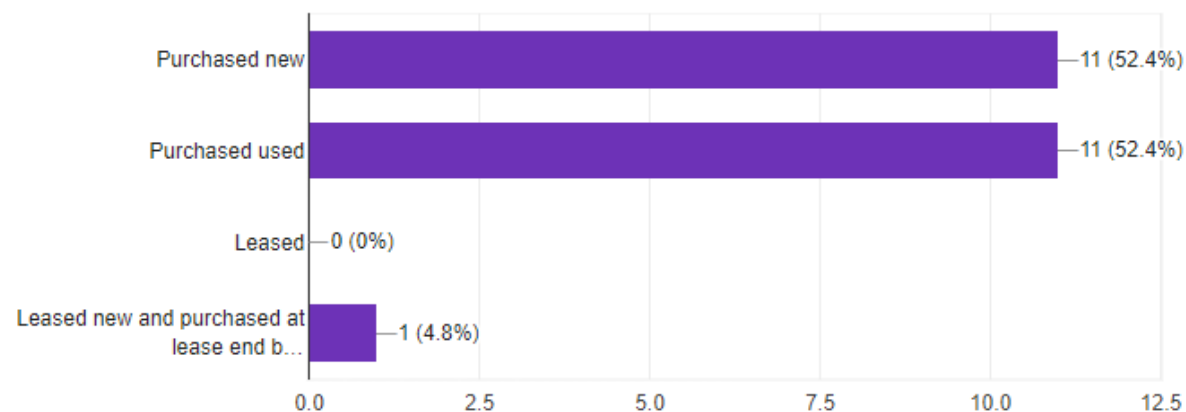
- At home, Level 2
- At home, Level 1 (regular 110 V outlet)
- I do not have access to charge at home - I rely on public or other stations (i.e....
- 50/50 split between home and public stations
- At home: Tesla Wall Connector
- When I get a PHEV, will use at home...
- Work, Home, Gym, Public Chargestati...
- work level 2 home level 1



www.facebook.com/MichianaEV/

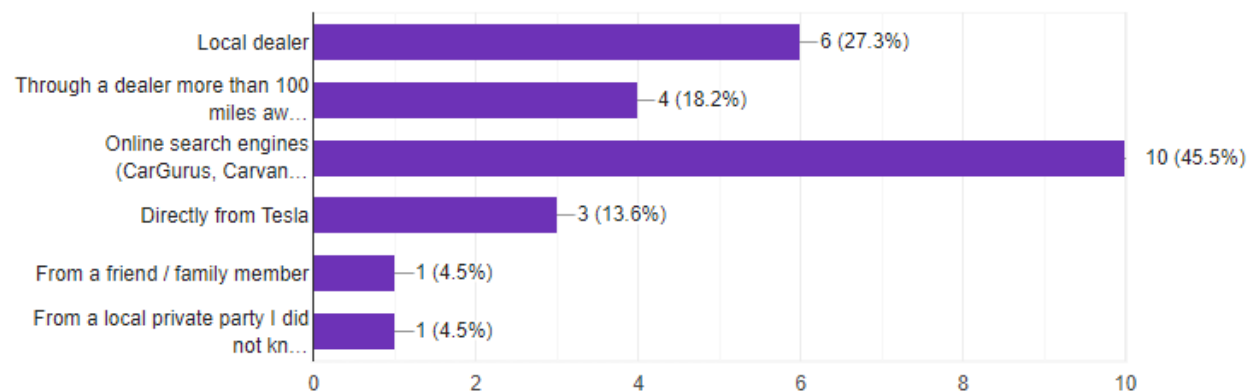
How did you acquire the plug-in vehicle(s)? (select all that apply)

21 responses



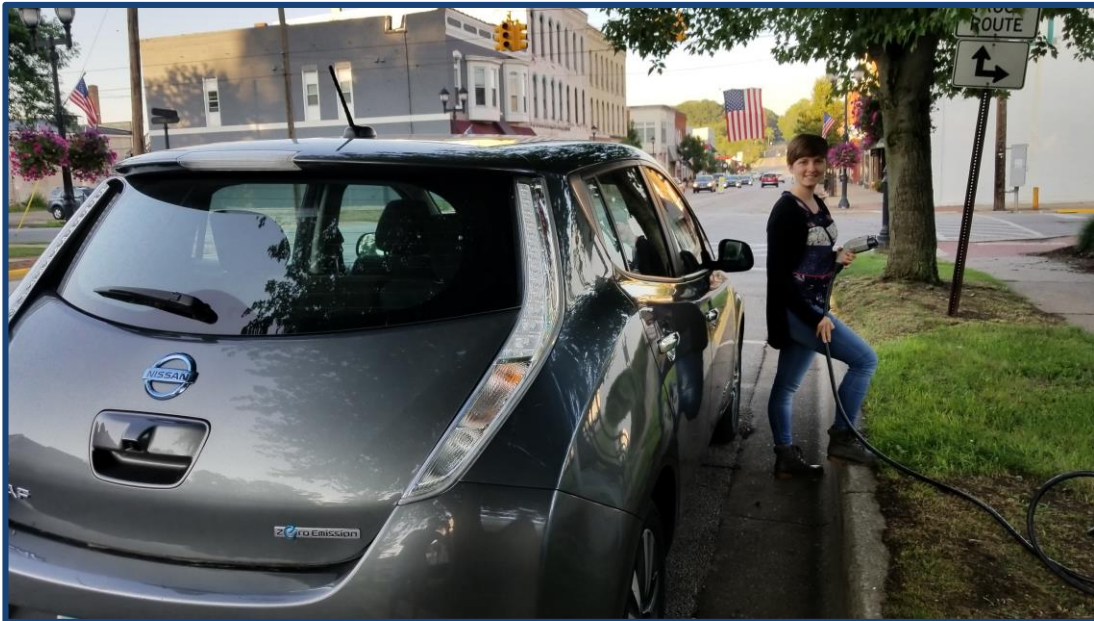
How did you find the vehicle(s) you ultimately acquired?

22 responses



Leah Thill
Electric vehicle driver for ~4 years
Resident of South Bend
Works at MACOG

Previous Vehicle - Nissan LEAF:
All-electric vehicle, older model (2016)
Range < 100 miles.



Current Vehicle – Chevy Bolt:
Range 259 miles!



Almost all my charging happens at home,
unless I'm out of town.

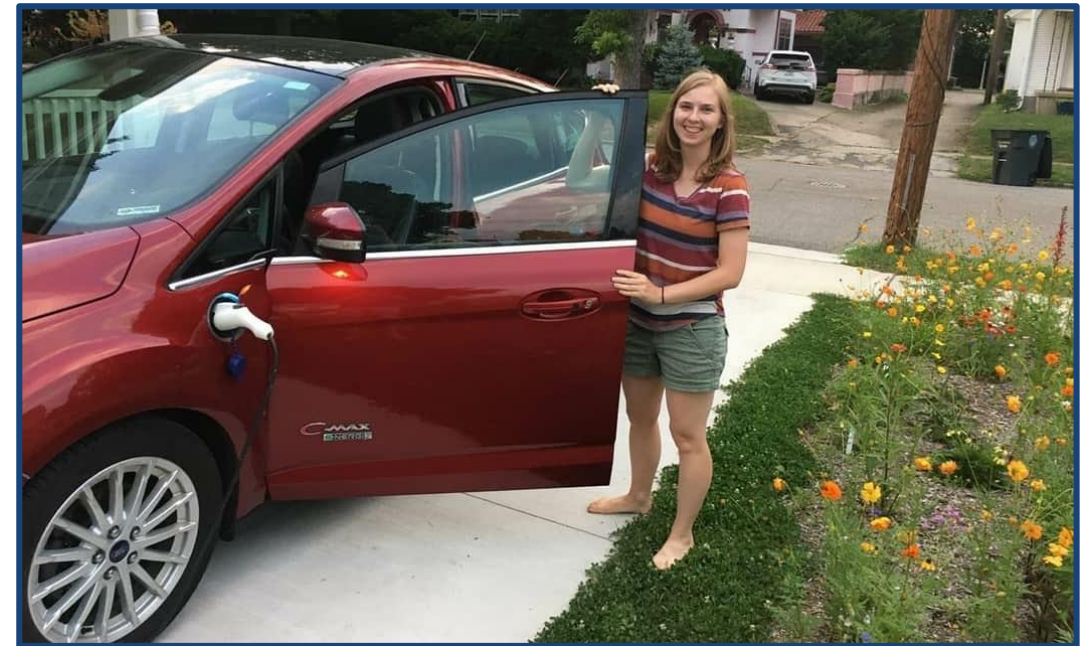
Fun Fact: We're now a big EV family!

My 85 year old grandparents are my inspiration!
They have been driving Nissan LEAFs since 2013.



Youngest sister's first car: used Ford C-MAX plug-in.

My parents live in rural southern Indiana with their
new Chevy Bolt, despite lack of public charging.



Local EV Driver – Video Feature

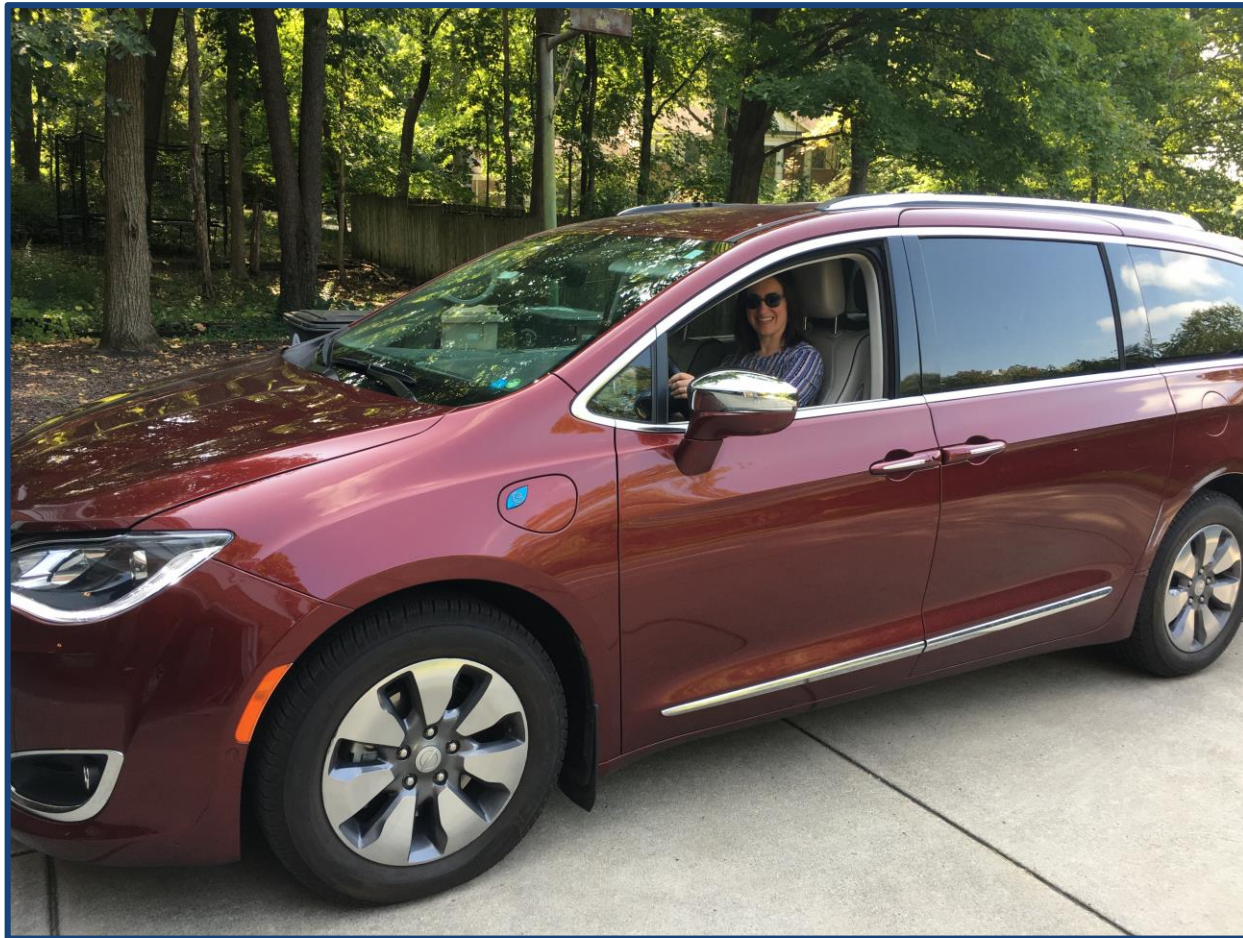
Sheila McCarthy
EV Driver < 1 year
South Bend Resident
Notre Dame Professor

Nissan LEAF
Chevy Bolt



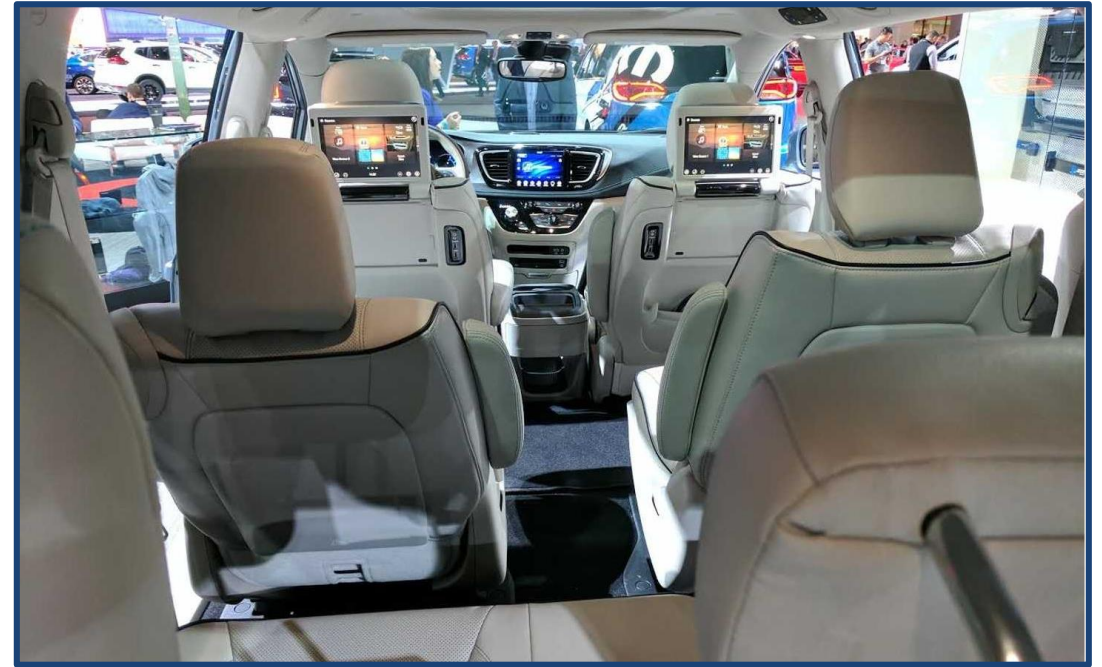
Rachel Novick
EV Driver 1+ year
South Bend
Notre Dame Professor

About My EV:
2017 Chrysler Pacifica
Plug-In Hybrid
33 mile range on all-electric



What we love about our vehicle:

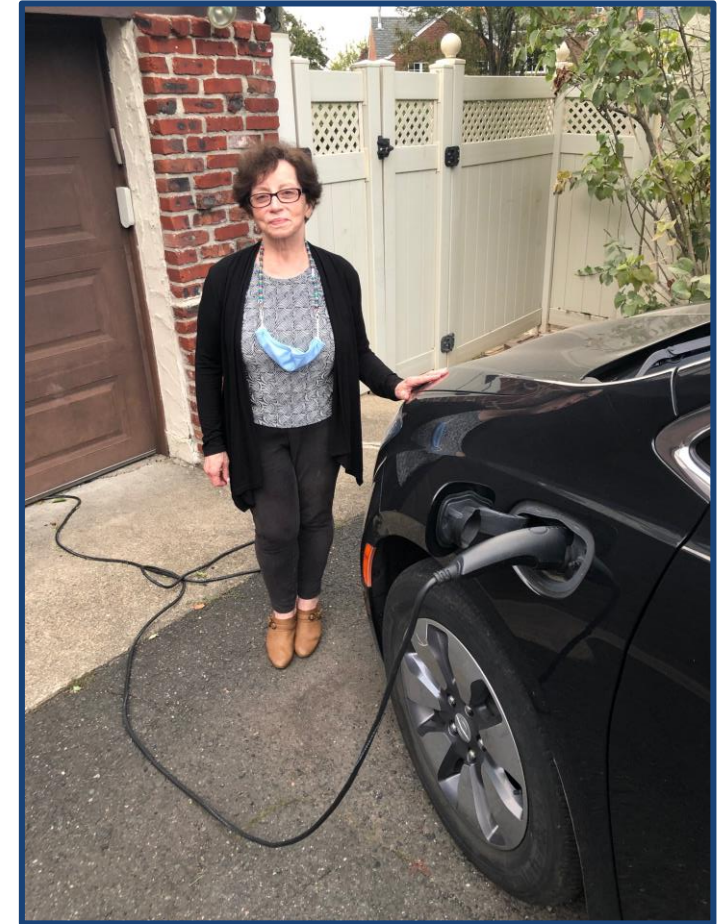
- Space and comfort for 4 kids
- Great safety features, including self-braking
- 360 degree cameras
- Entertainment system includes 2 screens
- Lots of trunk space
- Fuel efficient in hybrid mode too



Family Inspirations:

My in-laws in New Jersey bought the same vehicle - love using it to take grandkids on outings.

Our kids were the inspiration for our EV purchase. They used to protest every time we stopped at a gas station. Now we only fill the gas tank a few times a year for extended road trips.



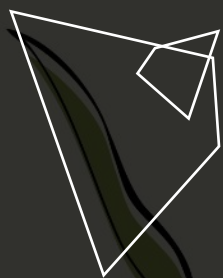
City of Goshen – Video Feature

Aaron Sawatsky-Kingsley

Department of Environmental Resilience

City of Goshen

Three parallel diagonal lines in a dark blue color, located in the bottom right corner of the slide.



taking the electric plunge

The **CENTER**
at
Donaldson

Adam Thada
Director of Ecological Relationships

EV For Fleet Usage

- Reduce emissions
- Control costs
- Be a change agent (education)



2019 Nissan LEAF

- +/- 150 mi range with 50 kW fast-charging
- Battery-electric only (simplicity)



Driver's Log: First 6 months

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	date	charge	end	%	range	range	range	odometer	odometer	miles	destination	driver	passenger
2		percentage	percentage	used	start	end	used	start	end	driven			
3													
4	Friday, January 11, 2019	100			150	67	83		driven from Warsaw distance of 30.7 miles				
5	Wednesday, January 16, 2019	100	76	24	137	108	29	284	309	25	Plymouth	Jim	Barb Borskie
6	1/17/2019 car parked outside overnight. When Andy decided to plug it in it was totally dead												
7	Friday, January 18, 2019	100	85	15	140	122	18	309	328	19	Plymouth	Stewart	Sr. Coletta
8	Monday, January 21, 2019	84	63	21	132	88	44	328	348	20	Plymouth	Jim	errands
9	Monday, January 28, 2019	97	69	28	135	85	50	348	370	22	Plymouth	Jim	Sr. Coletta
10	Monday, February 4, 2019	99	82	17	123	106	17	370	388	18	St. Michael's	Stewart	Sr. Rosemary
11	Tuesday, February 5, 2019			0			0			0			
12	Wednesday, February 6, 2019	126	84	42	154	136	18	388	410	22	Culver	Adam T.	none
13	Thursday, February 7, 2019	100	20	80	164	34	130	411	520	109	Merr / Hobart	Tom N.	
14	Monday, February 18, 2019			0	Tom				heater by Adam - used seat heater, steering			heater and defrost/fan	
15	Tuesday, February 19, 2019	100	40	60	164	68	96	520	597	77	Anc. Ply SB Ply Anc.	Adam T.	
16	Wednesday, February 20, 2019			0			0			0			
17	Thursday, February 21, 2019	100	63	37	142	92	50	597	637	40	Ply 2x	Jim	Srs. Eileen & Rosem
18	Friday, February 22, 2019	98	18	80	141	29	112	637	731	94	Hobart	Adam T.	Matthew
19	Tuesday, February 26, 2019	100	17	83	134	17	117	731	819	88	Michigan City	Adam T.	none
20	Wednesday, February 27, 2019			0			0			0			
21	Thursday, February 28, 2019	100	85	15	144	117	27	819	833	14	Plymouth	Stewart	Srs. Kate & Sharon

Usage

- 8,000 mi/year
- Mostly local day trips, some regional trips
- ~20 unique drivers...
“butts in seats”



Impact

- More utilization =
More impact
- Education
- Next steps

Relationships

out ecology in the Heartland



ing down for dinner, the car was back up to 97%, so we hit the interstate without delay.

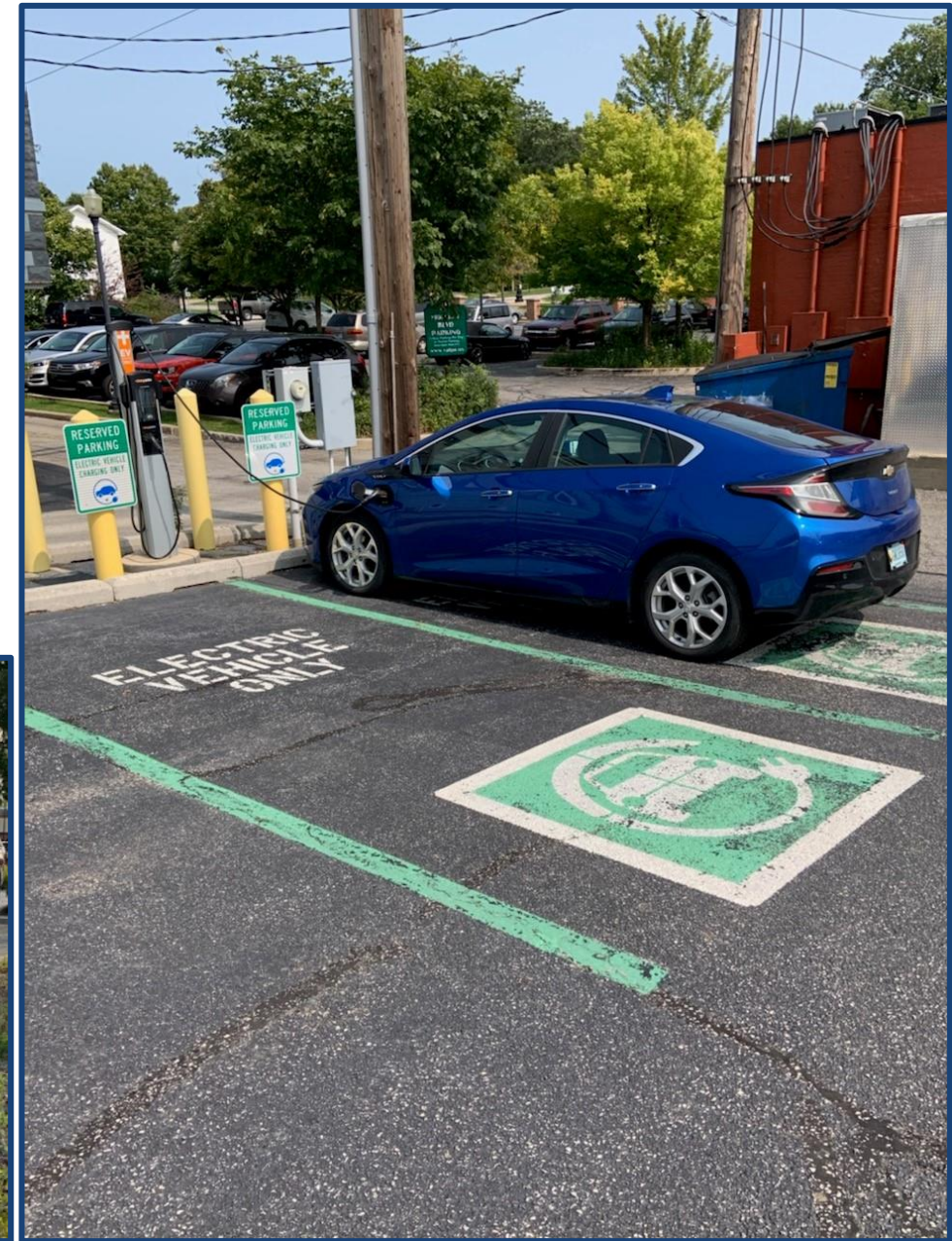
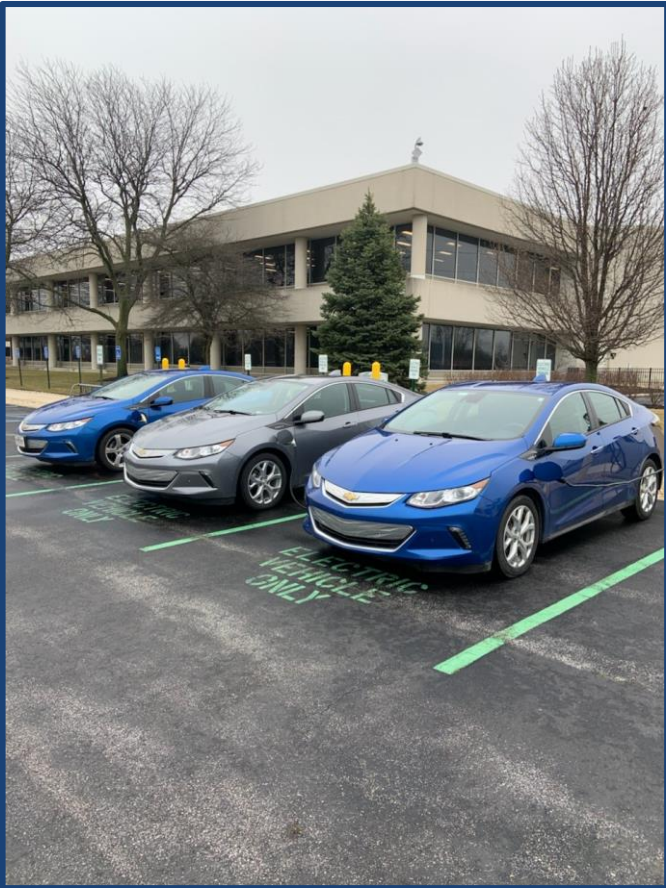
Timothy Peters, M.D. Plymouth Resident

About My EV:

2017 Chevrolet Volt

Plug-In Hybrid

~ 50 mile range on all-electric



Connect with our speakers!

Leah Thill
MACOG

Senior Environmental Planner

Experience with Nissan LEAF, Chevy Bolt

Connect you with other local EV drivers

lthill@macog.com

Aaron Sawatsky-Kingsley
City of Goshen
Director of Environmental Resilience
aaronkingsley@goshencity.com

Adam Thada
The Center at Donaldson
Director of Ecological Relationships
athada@poorhandmaids.org

Type Your Questions in the Chat Box!

