



# ***Fleet Electrification***

## ***Useful Ideas***

**TIM MILBURN (GREEN WAYS 2GO)**  
**RAHUL CACHATTERJEA (COMED/EXCELON)**  
**KEN CROWLEY (VILLAGE OF OAK PARK)**  
**KARA DEMIRJIAN HUSS (TCCI, DCC MARKETING)**  
**BOB HATTIER (IBEW)**

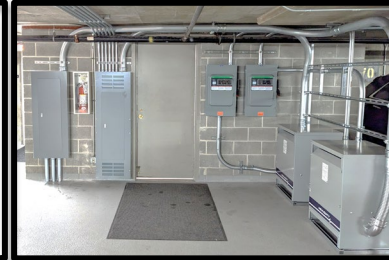
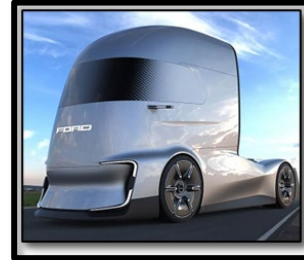
May 8, 2025





# FLEET ELECTRIFICATION

- A. Selecting EVs / EV Chargers
- B. Planning and Design
- C. Operation, Maintenance & Training
- D. Utility Engagement
- E. Codes, Standards And Best Practices
- F. Looking Forward: New Technologies and Policies





# *Selecting EVs & EV Chargers*



**TIM MILBURN**

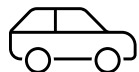
May 8, 2025



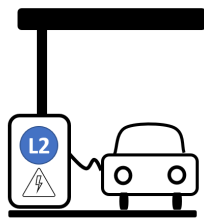


# Evolution of EV Charging

2020

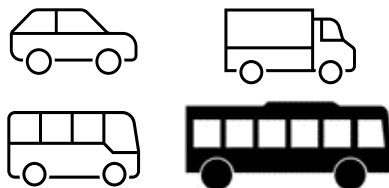


Residential  
Public  
Workplace

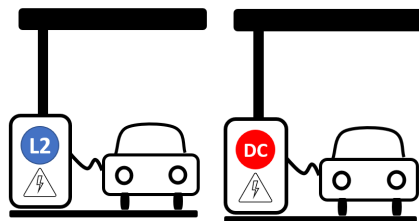


Existing Facility Power

→ 2025

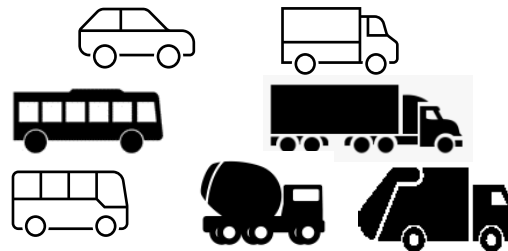


Medium Duty Fleets  
School / Transit Buses  
Charging as Business

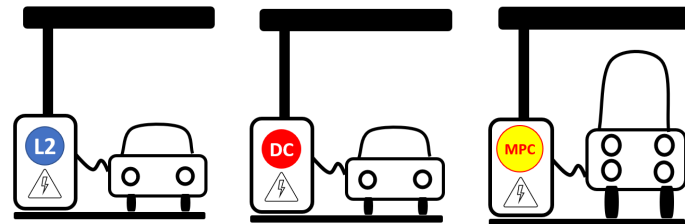


Local Utility Service Upgrades

→ 2030



Heavy Duty Fleets  
Megawatt Charging



Transmission and Distribution Upgrades



# PEV Terminology: Vehicles

- **Plug-in Electric Vehicles (PEV)**

- **Plug-in Hybrid Electric Vehicle (PHEV)** and **Extended Range Electric Vehicles (EREV)**

- Run on electricity or internal combustion engine (ICE)
    - PHEV: (AND) Can run on both fuels or one fuel
    - EREV: (OR) ICE automatically engages when battery runs low
    - Zero tailpipe emissions when running on battery only
    - ICE feature alleviates range anxiety

- **Battery Electric Vehicles (BEV)**

aka All Electric Vehicle (AEV)

100% electric battery powered

- Range limited
    - Zero tailpipe emissions
    - Quiet
    - Lower maintenance





# EV Charging Station = EV Supply Equipment = EVSE

- EVSE = Equipment that safely delivers electrical energy from an electricity source to charge plug-in electric vehicles
  - Term EVSE used to differentiate from **On Board Charger** device that regulates charge *on the EV*



Level 2 EVSEs

- Types of EVSEs
  - Hardwired
  - Plug in to standard (NEMA) outlets



Level 1 Portable EVSE  
& 120 V Outlet



Level 2 Portable EVSE &  
208 V NEMA 14-50 Outlet



# Standard Charging Power Levels

## EV Supply Equipment (EVSE = EV Charger)

- **AC Level 1:** (120 VAC)
  - Home/ mobile
  - 3 to 5 RMPH
- **AC Level 2:** (208/240 /277 VAC)
  - Home/ public/ workplace
  - 10 to 80 RMPH
- **DC Fast Charging:** (480+ VAC)
  - Public/ workplace / retail
  - Aka Level 3 Charging
  - 60 to 600 RMPH

AC in, **AC** out

AC in, **DC** out



**RMPH** = Range Miles per Hour added when connected

**AC** = Alternating Current

**DC** = Direct Current



# Direct Current Charging : *Higher Power is here*

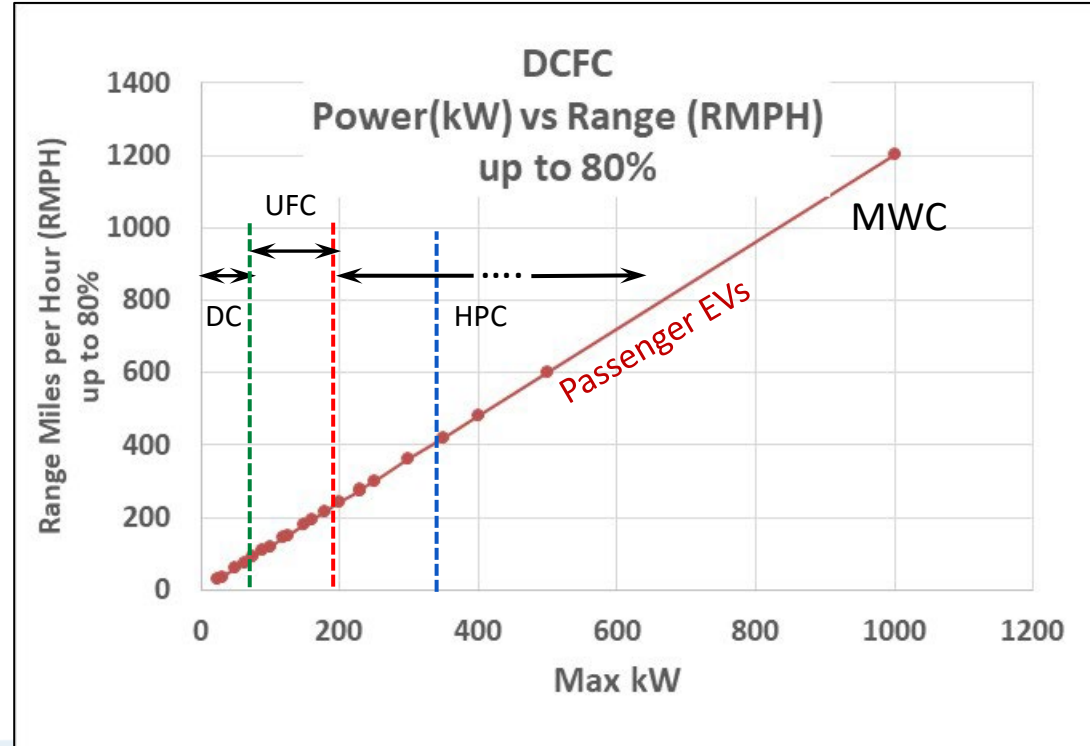
**Per Charin\*:**

- (DC) DC Charging: < 50 kW
- (FC) Fast Charging: 50 to 99 kW
- (UFC) Ultra Fast Charging: 100 to 149 kW
- (HPC) High Power Charging:  $\geq 150$  kW
- (MWC) Megawatt Charging: 1,000 kW

kW= kilowatt

RPMH = Range Mile per Hours

For DCFC – basis only up to 80% fill



\*Charin - Global Standards organization for EV Charging



# Use Case Decision Factors

- **Operational**

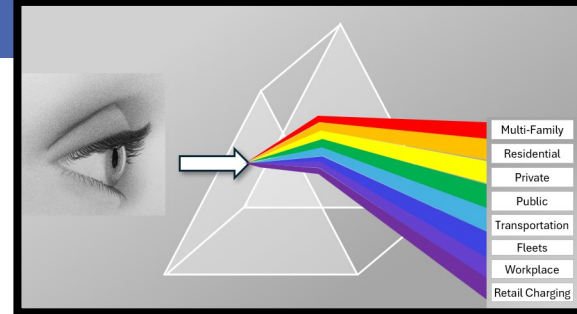
- Daily travel, long distance travel, work travel.
- Daily/seasonal demand variation – temperature impacts
- Rate of recharge
- Special needs (e.g., PTOs, police & fire, IT gear)
- Reliability - equipment and vehicles
- Changes in maintenance needs
- Training
- Safety

- **Vehicle**

- Types and quantities of EVs
- Acceptance and recharge rates
- Performance: payload, towing load, acceleration, torque
- Right-sizing
- Market availability

- **Facility**

- Logistics, parking
- Parking space ownership
- Power capacity, ability to power share, peak demand costs





# Use Case Decision Factors

- **Operational**
- **Vehicle**
- **Facility**
- **Investment recovery**
- **Communications and networking**
- **Sustainability**



## Determines

- Best EV and EV Charger Fits
- Investment sequences, ROI
- Charging schedules and logistics
- Energy management
- Electricity costing and pricing
- Training needs
- Use of home-based vs. third party charging





# RANGE FACTORS





# EV Range Factors and Solution Designs

*Top Priority concern:*

*RANGE MILES PER HOUR (RMPH) connected*

- Recharging directly affects daily lives and operational predictability
  - Vehicle availability
    - Miles recharged in known time frame
    - Daily miles → year round
  - Charger reliability and availability

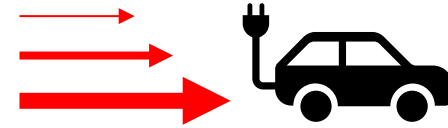




# EV Range Factors and Solution Designs

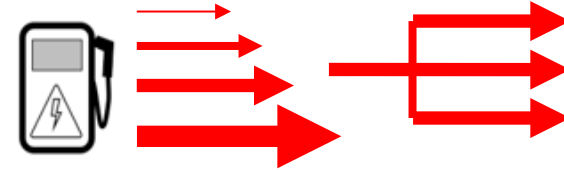
## Vehicle Factors

1. EV Acceptance Rate (kW)
2. EV Efficiency (mi/kWh)



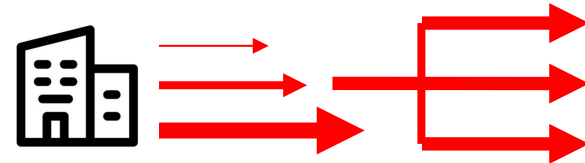
## EV Charger Factors

1. Power Delivery Rate
2. Power Sharing



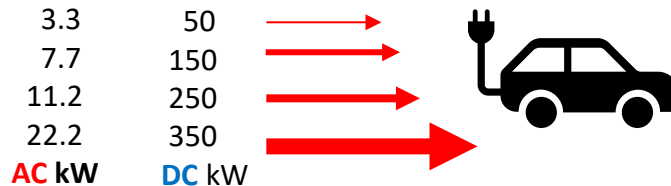
## Facility Infrastructure Factors

1. Maximum Power
2. AC vs DC
3. Power Sharing





# Acceptance Rate



- **Not all EVs charge the same!**
  - *Onboard Vehicle Charging Systems* regulates energy/power reaching the battery
- = Acceptance Rate
  - **AC** Acceptance Rates vary between 3.3 kW and 22 kW
  - **DC** Acceptance Rates vary between 50 and 350 kW and are going up to over 1,000 kW (large EVs)
  - *EV Chargers with more power capacity will only charge at the rate the EV allows*
  - **May influence what EV and what EV charger you buy**





# Passenger EV Acceptance Rates, kW

## AC Level 2

Model (2024)	Acceptance Rate, kW
AC Charging (L2)	
Chevy Volt (2017)	3.8
Nissan Leaf SV (2023)	7.7
Subaru Solterra (2024)	7.7
Chevy Bolt (2024)	7.7
Nissan Ariya (2024)	7.7
Chevy Blazer EV (2024)	11.5
Ford Mustang Mach-E (2024)	11.5
Hyundai Ioniq 5 (2024)	11.5
Hyundai Ioniq 6, LR (2024)	11.5
Tesla Models Y (2024)	11.5
Tesla Models X (2024)	11.5
Tesla Models 3 Long Range (2024)	11.5
VW ID.4 Pro (2024)	11.5

## DCFC

Model (2024)	Acceptance Rate, kW
DC Charging	
Chevy Bolt PEV	55
Nissan Leaf e+	125
Nissan Ariya-e-4ORCE	130
VW ID 4	125
Ford Mustang Mach-E	150
Audi -e-tron 15	150
High Powered DCFC	
Rivian R1T	220
Hyundai IONIQ Long Range 2WD	220
Kia EV6 GT	233
Tesla Model 3	250
Porsche Taycan 4S Plus	350
Tesla Model Y Performance	350
Tesla Model S Plaid	350
Tesla Model S Long Range	350
Lucid Air Grand Touring	350

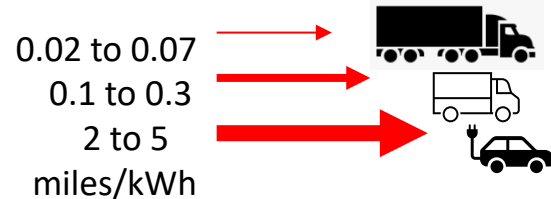


# Recharge *Efficiency* Rate, Miles /kWh

- Not all EVs get same miles with same energy
- Newer EVs models more efficient than older ones
- Measured in miles/kilowatt Hour (mi/kWh)

→ the new “*miles per gallon*” metric

- Passenger EVs: 2.00 to 5.00 mi/kWh
- Pickups, shuttles, SUVs: 0.10 to 0.30 mi/kWh
- Large trucks/buses: 0.02 to 0.07 mi/kWh



Electric car year	OEM	Model	Mile/kWh
2022	Tesla	Model 3	4.00
2021	Hyundai	Ioniq	4.00
2022	Tesla	Model Y	3.85
2022	Lucid	Air	3.85
2021	Hyundai	Kona	3.70
2022	Chevrolet	Bolt	3.57
2022	Lucid	Air	3.45
2022	Tesla	Model S Plaid	3.45
2022	Chevrolet	Bolt	3.45
2021	Kandi	K27	3.33
2021	Nissan	Leaf	3.33
2021	Kia	Niro	3.33
2021	BMW	i3	3.33
2021	Nissan	Leaf	3.23
2022	MINI	Cooper	3.23
2021	Ford	Mustang	2.94
2021	Volkswagen	ID.4	2.86
2021	Polestar	2	2.70
2021	Audi	e-tron	2.33
2021	Volvo	XC40	2.33
2021	Jaguar	I-Pace	2.27
2021	Porsche	Taycan	2.08

## TECHNICAL REFERENCE INFORMATION

[DC Acceptance Rate Data](#)

[AC EV Acceptance Rate Table](#)

EVs: Miles per kilowatt hour List for AC Charging (eco cost savings.com) [LINK](#)

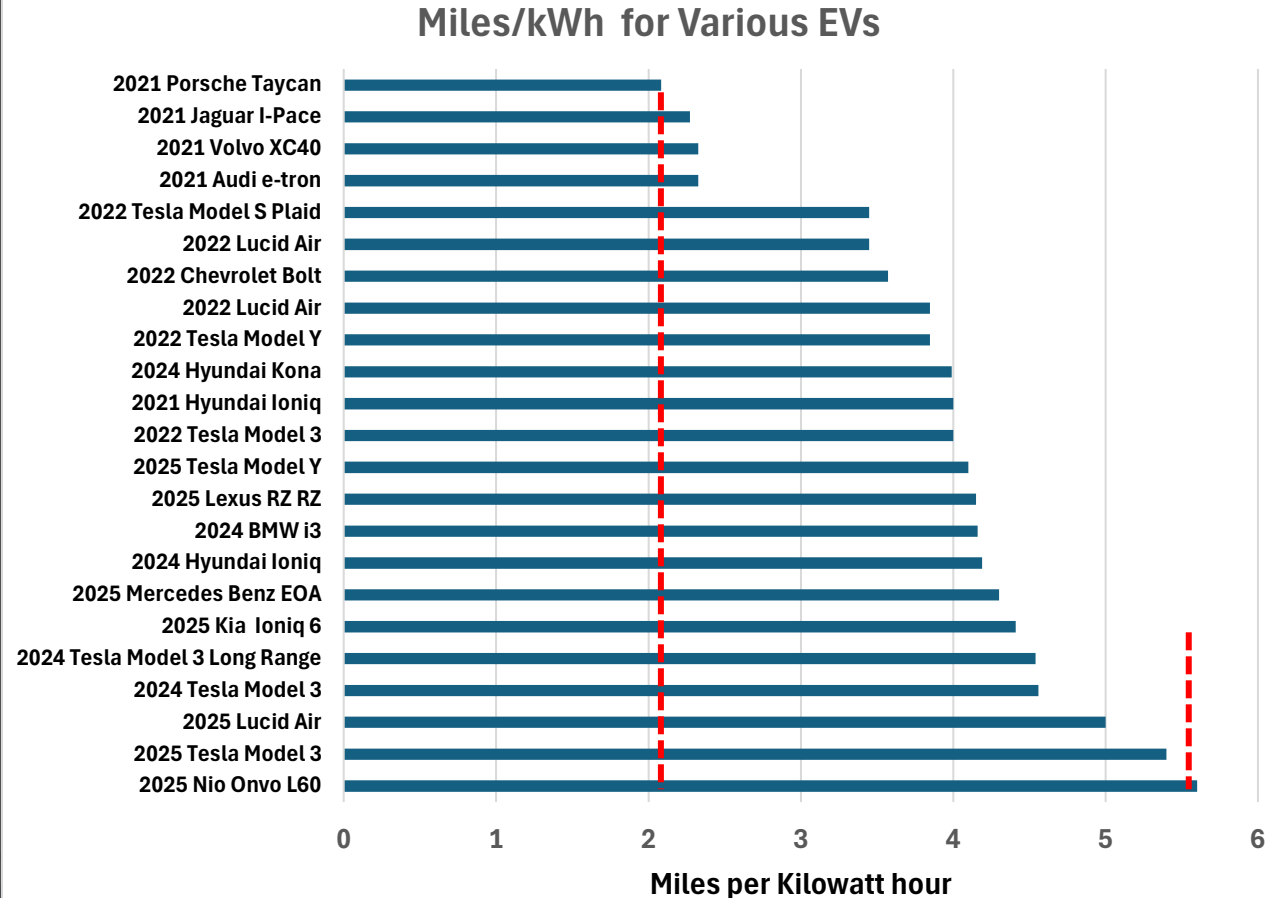




# EV Efficiency

- How far can you go on 1 kilowatt hour of energy?

Model	Mile/kWh
2025 Tesla Model 3	5.4
2024 Tesla Model 3	4.56
2022 Tesla Model 3	4.00

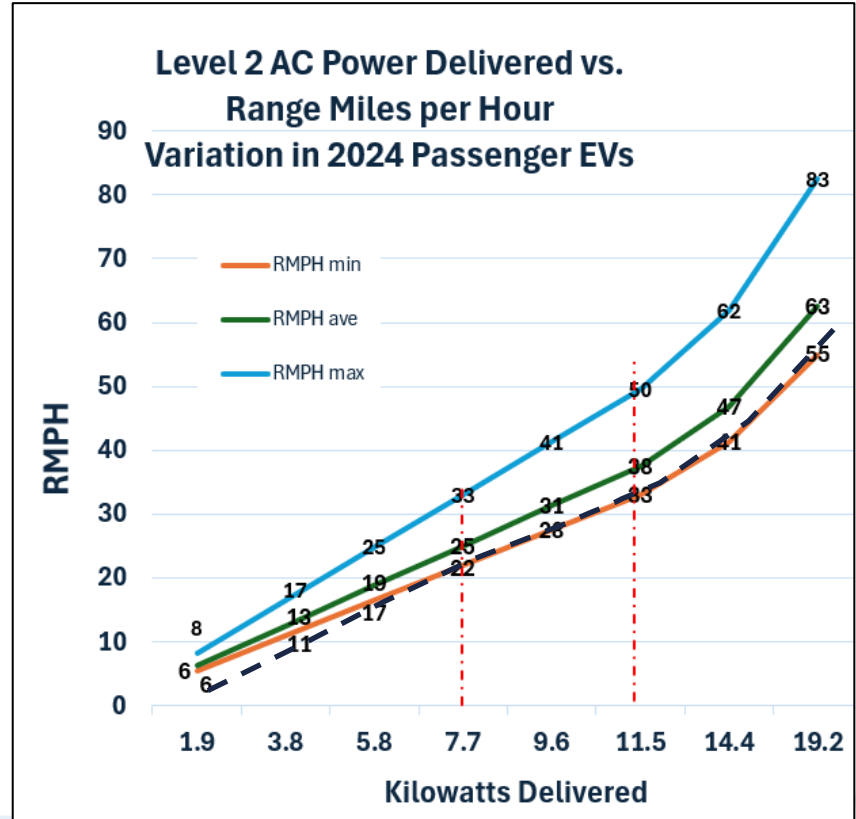




# Recharge Efficiency Rate and Power Variation

*Recharge rate efficiency depends on the EV model*

*Like Miles per Gallon!*

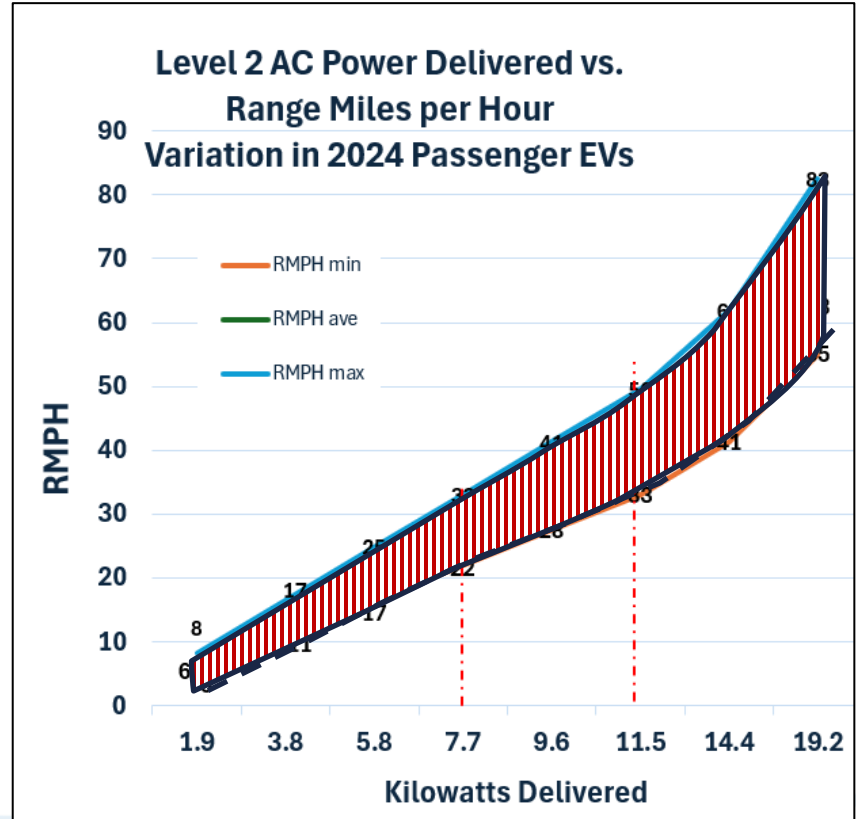




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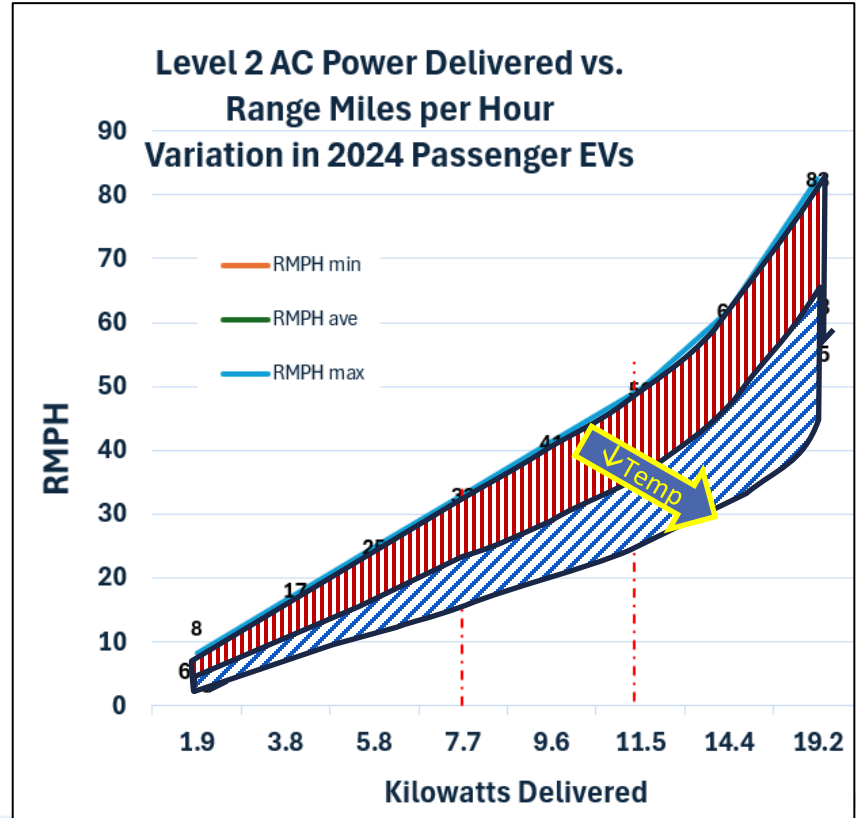


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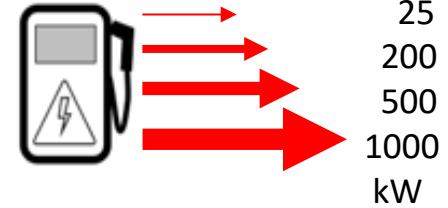
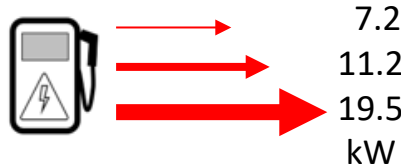
*Like Miles per Gallon!*

*Temperature effects will apply*





# EVSE Delivery Rate



## Level 2

- Power range from 6 to 22 kW
- Volts: 208/240/277
- Amps: 16 to 80

## DCFCs

- kW range from 25 to 1,000+
- Supply voltage from 480 to 1,600 AC
- Amp range depends on Voltage
- Excerpted from [EPRI Vetted EVSE Product list](#) Aug 2024

## Level 2 EVSE

Brand	Max Power (kW)	Max Amperage
ABB	19.2	80
ABB	9.6	40
Autel	19.2	80
Autel	12	50
Autel	8.3	35
Blink	12	50
Blink	7.2	30
Blink	7.2	30
Blink	11.52	48
Blink	9.6	40
Blink	11.52	48
Blink	19.2	80
Blink	19.2	80
Blink	8.3	35
ChargePoint	9.6	40
ChargePoint	12	50

## DCFC

Name	Max Power (kW)	Max Amperage
ABB	24	29
BTCPower	25	30
Blink	30	36
ZeroVA	30	36
Autel	40	48
FLO	50	60
ChargeTronix	60	72
ChargePoint	62.5	75
Enel X Way	75	90
Autel	80	96
ChargePoint	80	96
ABB	90	108
XCharge	95	114
Autel	100	120
Delta	100	120
Autel	120	145
Blink	120	145
BorgWarner	125	151
Autel	140	169
ABB	150	181



# Direct Current Charging : *Higher Power is here*

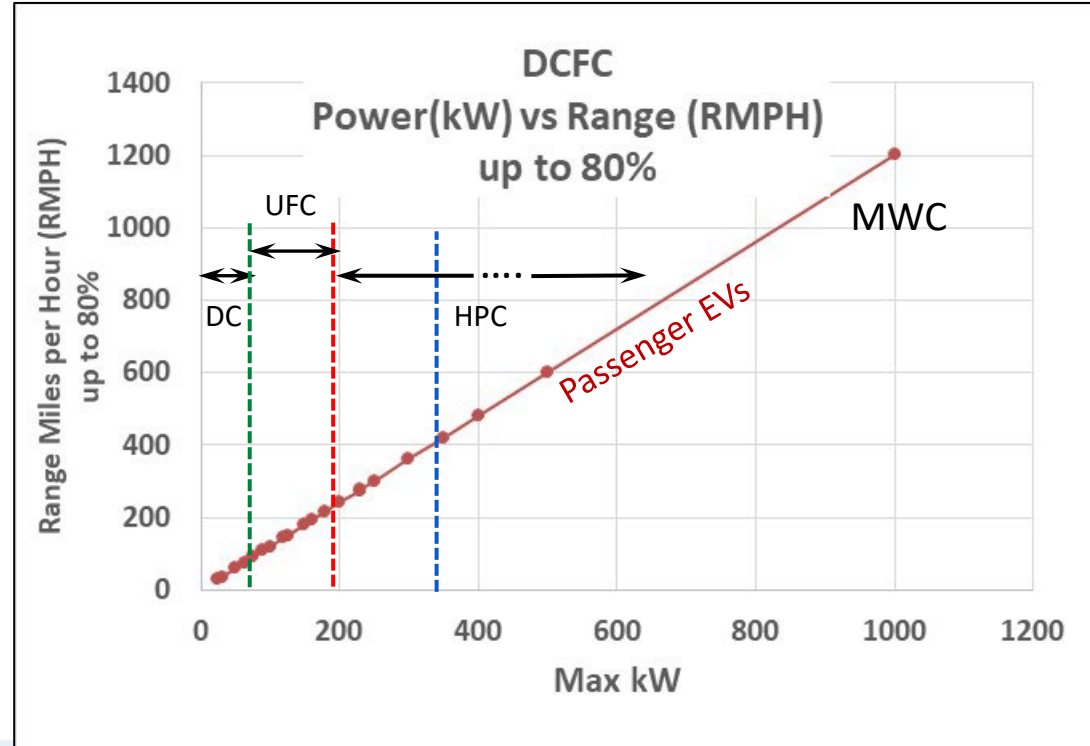
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- (MWC) Megawatt Charging: 1,000 kW

kW= kilowatt

RPMH = Range Mile per Hours

For DCFC – basis only up to 80% fill



\*Charin - Global Standards organization for EV Charging



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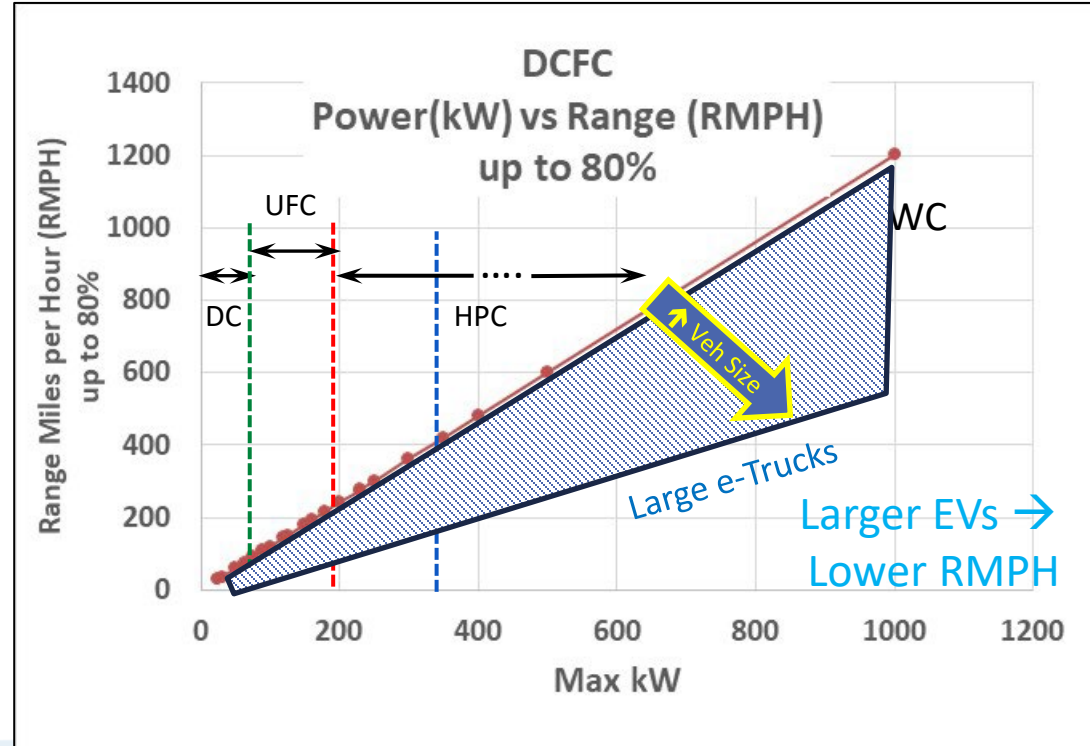
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# EV / EVSE Standard Connectors: North America



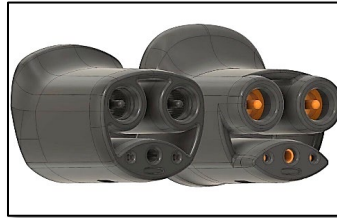
**SAE J1772** Standard Level 1 & 2 Charging Connection (Left) and Plug (Right)  
US EVs



**CHAdeMO** DCFC Standard EV Connection (Left) and Plug (Right)  
Japanese EVs



**SAE Combined Charging System (CCS1)** (Left) Standard Level 1 and 2 AC EV and DC Fast Charging connection and Plug (Right) - US EVs



**NACS vs J3400**  
Same mechanical connection  
NACS ; 250 V Max  
J3400 1000 V Max



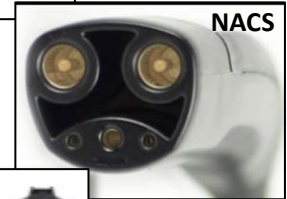
**Tesla EV Connector** (Left) and Plug (Right), Recently approved as **SAE J3400** or **North American Charging Standard (NACS)**



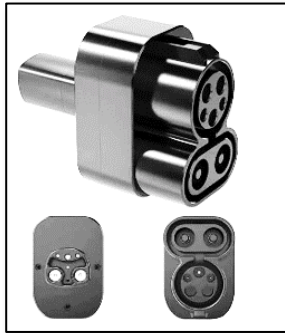


# Changing Charging Standards

- Through 2024, all US EVs use standard AC & DC connectors except Tesla:
  - **AC**: SAE J1772
  - **DC**: Combo Charging Standard (CCS1 – US EVs)
  - **DC**: CHAdeMO (Japanese EV Standard)
- Tesla uses one connection for **AC** and **DC**
  - North American Charging Standard (NACS)
  - NACS is now SAE J3400 Standard
- Starting in 2025 – **Migration** to NACS/ SAE J3400
  - All Major EV OEMs
  - Major EVSE vendors
  - Japanese vendors – phasing out CHAdeMO in new US EV products
  - Goal: allow network of Tesla and US DCFCs to charge any EV (in time)
- Adapters are available to charge between standards



Adapters



**NACS → CCS Adapter**



**CCS → NACS Adapter**



**NACS → J1772 Adapter**

# Adapters

*EVSE cords and connectors can be swapped out in the future (in **Yellow**).  
Not all models.*



**J1772 → NACS Adapter**

# Transitioning: CCS/J1772 to J3400



*Tesla Supercharger featuring  
**Magic Dock** J3400 or CCS1*



*ChargePoint **Omni Port** featuring J3400 or  
J1772*



# Finding EVSEs for Purchase

- [ERPI Vetted EVSE list](#)



- [Energy Star List](#)



- [Sourcewell List](#)





# Passenger EV Availability

## *Plug-in EVs (PEVs, aka “EVs”)*

- **Battery EV (BEV), aka All Electric Vehicles**
  - 33 OEMs / 295 models (2025)
  - 150 to 350-mile range for most
  - 410-mile Rivian Silverado, Tesla
  - 512-mile Lucid
  - 60 models have DC Acceptance Rate at >300 kW (7 OEMs)
- **Plug-in Hybrid EV (PHEV), aka Extended Range EVs**
  - 15 OEMs / 85 models (2025)
  - 22 to 52-mile EV range min
  - Up to 559-mile total range (Prius)
- **Availability varies by region and model**

EV Data per Plugstar





# Shopping for EVs:

## AFDC Advanced Vehicle Search

**Alternative Fuel and Advanced Vehicle Search**

Find and compare alternative fuel vehicles, engines, and hybrid/conversion systems. Some of the light-duty vehicles may count toward vehicle acquisition requirements for federal fleets or state and alternative fuel provider fleets regulated by the Energy Policy Act. For downloads of past model years, see the publications search.

Light-Duty Vehicles All Vehicles

**Vehicles by Type**

**Vehicles by Manufacturer**

Light-Duty

Medium- and Heavy-Duty

**Engines and Hybrid Conversion Systems**

For medium- and heavy-duty vehicles

ENGINE & POWER SOURCES CONVERSION & HYBRID SYSTEMS

**Pick Engine Fuel/Technology**

- ☐ All
- ☐ Biodiesel (B20)
- ☐ Ethanol (E85)
- ☐ Hydrogen Fuel Cell
- ☐ LNG - Liquefied Natural Gas
- ☐ CNG - Compressed Natural Gas
- ☐ Propane
- ☒ Electric
- ☒ Plug-In Hybrid Electric
- ☐ Hybrid Electric
- ☐ Hydraulic Hybrid
- ☐ Diesel/Hybrid Electric
- ☐ Natural Gas

Search Results - 1 - 8 of 8 vehicles

Filter by: Model Year: 2024, Fuel/Technology: Electric, Plug-In Hybrid Electric (Class/Type: Pickup) Manufacturer: All View

**Chevrolet Silverado EV (2024)**

Electric pickup  
\$74,800 base MSRP

Alternative Fuel Economy (Combined): 63 MPGe  
Electric-Only Range: 450 miles  
Battery Capacity: 200 kWh  
Engine/Motor(s): 151 kW electric motors (x2)  
Transmission: Auto  
Drivetrain: AWD  
[Find a Dealer](#)

**Chevrolet Silverado EV (2024)**

Electric pickup  
\$74,800 base MSRP

Alternative Fuel Economy (Combined): 67 MPGe  
Electric-Only Range: 393 miles  
Battery Capacity: 150 kWh  
Engine/Motor(s): 158 kW electric motors (x2)  
Transmission: Auto  
Drivetrain: AWD  
[Find a Dealer](#)

**GMC Hummer EV Pickup (2024)**

Electric pickup  
\$95,550 base MSRP

Alternative Fuel Economy (Combined): 50-53 MPGe  
Electric-Only Range: 240-314 miles  
Battery Capacity: 160 kWh  
Engine/Motor(s): 214 kW electric motors (x3)  
Transmission: Auto  
Drivetrain: AWD  
Note: Includes models with MT tires  
[Find a Dealer](#)

**Ford F150 Lightning 4WD (2023)**

Electric pickup  
\$55,974 base MSRP

Alternative Fuel Economy (Combined): 68-70 MPGe  
Electric-Only Range: 300-320 miles  
Charging Rate:  
Level 2: 11.6-19.6 kW | DC Fast: 150 kW  
Charging Speed (per hour of charging):  
Level 1: 2 miles | Level 2: 24-40 miles | DC Fast: 249 miles  
Battery Capacity: 123 kWh  
Engine/Motor(s): 358 kW electric motors (x2)  
Transmission: Auto  
Drivetrain: AWD  
Note: Includes Platinum and Extended Range models  
[Find a Dealer](#)

**Ford F150 Lightning 4WD Plat Ext. Range (2023)**

Electric pickup  
\$55,974 base MSRP

Alternative Fuel Economy (Combined): 68-70 MPGe  
Electric-Only Range: 300-320 miles  
Charging Rate:  
Level 2: 11.6-19.6 kW | DC Fast: 150 kW  
Charging Speed (per hour of charging):  
Level 1: 2 miles | Level 2: 24-40 miles | DC Fast: 249 miles  
Battery Capacity: 123 kWh  
Engine/Motor(s): 358 kW electric motors (x2)  
Transmission: Auto  
Drivetrain: AWD  
Note: Includes Platinum and Extended Range models  
[Find a Dealer](#)

**Lordstown Endurance (2023)**

Electric pickup  
\$55,950 base MSRP

Alternative Fuel Economy (Combined): 48 MPGe  
Electric-Only Range: 174 miles  
Battery Capacity: 158 kWh  
Engine/Motor(s): 98 kW electric motors (x4)  
Transmission: Auto  
Drivetrain: 4WD  
[Find a Dealer](#)

### Ford F150 Lightning 4WD (2023)



Electric pickup  
5 seats  
\$55,974 base MSRP

**Alternative Fuel Economy (Combined): 68 MPGe**

**Electric-Only Range: 240 miles**

**Charging Rate:**

Level 2: 11.6-19.6 kW | DC Fast: 150 kW

**Charging Speed (per hour of charging):**

Level 1: 2 miles | Level 2: 24-40 miles | DC Fast: 249 miles

**Battery Capacity: 123 kWh**

**Engine/Motor(s): 358 kW electric motors (x2)**

**Transmission: Auto**

**Drivetrain: AWD**

[Find a Dealer](#)

<https://www.energy.gov/vehicles/search/>



# Fleet EV Availability by Vehicle Type

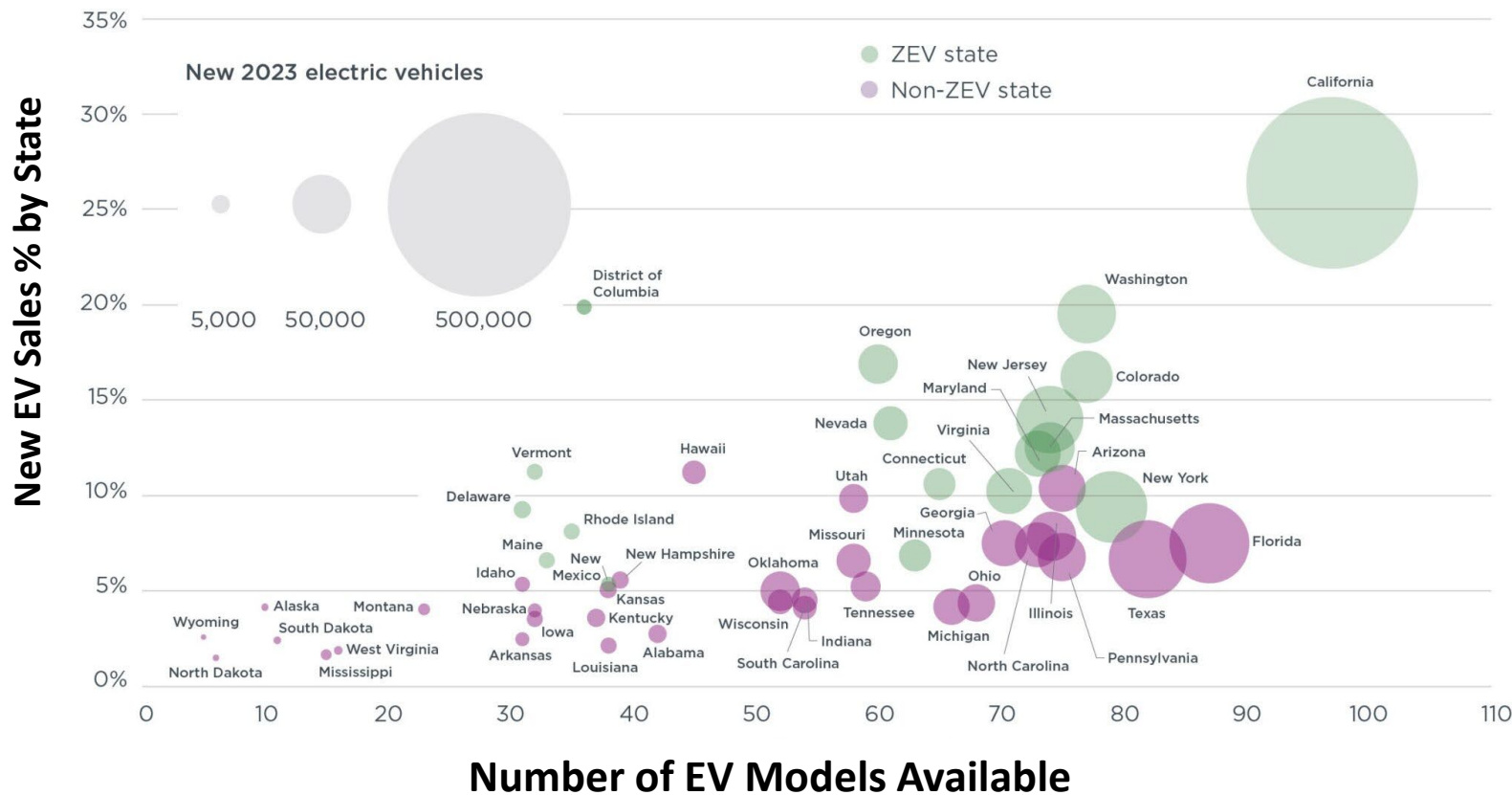
U.S. DEPARTMENT OF  
**ENERGY** | Energy Efficiency &  
Renewable Energy

**Alternative Fuels Data Center**

EV Type	# of 2025 Models per AFDC			
	BEV	PHEV/ EREV	TOTAL	Class
Sedan/Wagon	41	5	46	PV
SUV	55	20	75	1 & 2
Passenger Van/Shuttle Bus	41	5	46	2 & 3
Van	12	1	13	1 & 2
Transit Bus	28	0	28	5 & 6
Refuse	6	0	6	7
Street Sweeper	3	3	6	7
Pickup	10	0	10	1&2
Vocational/Cab Chassis	28	0	28	3 to 6
School Bus	16	0	16	4 to 6
Step Van	5	0	5	5 & 6
Tractor	13	0	13	7 & 8
<b>Totals</b>	<b>258</b>	<b>34</b>	<b>292</b>	

# EV Model Availability by State

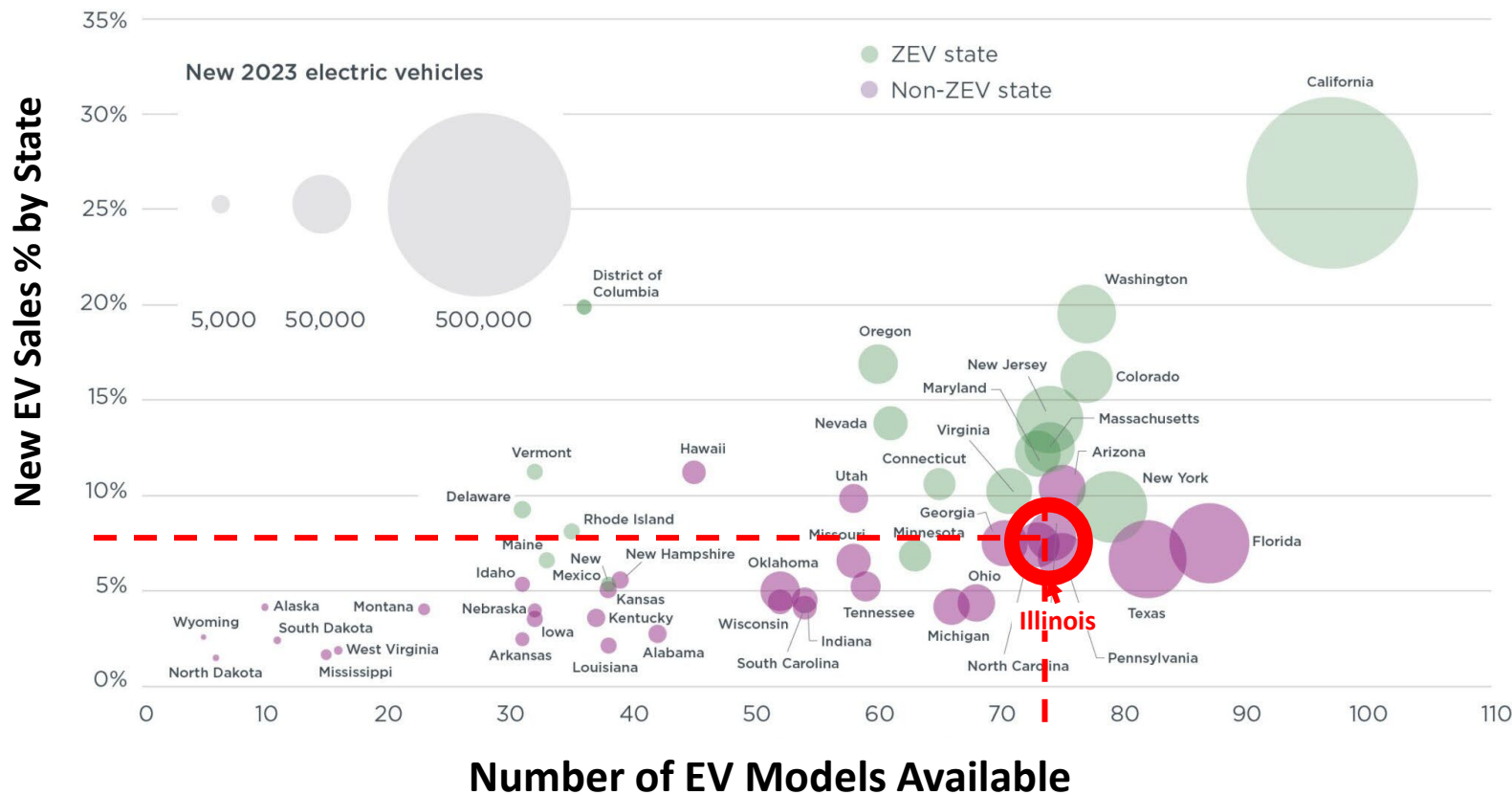
icct20





# EV Model Availability by State

icct20





# Finding EVs and Specs

## Passenger EVs

- [AFDC Alternative Fuel Vehicle Search](#) – search by type, fuel, more
- [AFDC EV Model Availability](#)
- [PlugStar Shopping Assistant – US Cars](#)
- [Consumer Reports, “Hot New Electric Cars”](#)
- [Car & Driver – New EV Models](#)
- [Car & Driver: New Car Reviews, Buying Advice and News](#)
- [Cars.Com](#) - American Made EVs
- [Electric Vehicle Database Website](#) – global EV listings
- [EV Technical Specs and Comparisons](#)
- [Compare EV choices Side-by-Side](#): [Fueleconomy.gov](#)





















### Used Passenger EVs

- [Autotrader Used EVs for Sale](#)
- [Edmunds Find Used EVs](#)
- [Carmax Used EVs](#)





# 26 Pickup EV Models (Global)

	Class	Type of EV		Available?	AC	DC	kWh	miles	HP	Torque (ft-lb)	Min	Max	Photo
<a href="#">Atlis XT- Pickup</a>	2	Pickup		TBD	N/A	1.5 MW at 1,600 V	125 /250	300 /500	600	12,000	\$ 45,000	\$ 69,000	
<a href="#">Bollinger B1</a>	2	Pickup		Production Stopped			102 kWh	200				\$ 110,000	
<a href="#">Caterpillar Pickup EV</a>	2	Pickup		TBA									
<a href="#">Ford F-150 Lightning</a>	2	Pickup		Yes	11.5	350		400	600		\$ 62,000	\$ 85,000	
<a href="#">Ford Ranger PHEV</a>	2	Pickup - LD		2025?	TBA	TBA	TBA	28					
<a href="#">GMC Hummer Pickup EV</a>	3	Pickup	10000	Yes	11.5	350	212/ 247	298/451	530/830	7400/11500	\$ 95,000	\$ 105,000	
<a href="#">GMC Sierra Denali EV</a>	2	Pickup		Yes	11.5	350							
<a href="#">JACT9 Hunter EV</a>	2	Pickup		Yes-Asia only	11.5		77		225				
<a href="#">Jeep Gladiator PHEV</a>	2	Pickup		2026			14	21	375	470	\$ 58,000	\$ 75,000	
<a href="#">Kia Tasman</a>	1	Pickup - LD		2027									
<a href="#">Lordstown Endurance</a>	2	Pickup		N/A				200	400				
<a href="#">Maxus eTerron9</a>	2	Pickup		In Europe, US TRA			115	102	436				
<a href="#">Mitsubishi Titan PHEV</a>	1	Pickup		In Asia									
<a href="#">Nikola Badger - Pickup</a>	2	Pickup											
<a href="#">Radar RD6</a>	2	Pickup											
<a href="#">Ram 1500</a>	2	Pickup		2025								\$ 55,000	
<a href="#">Rivian R1T</a>	2	Pickup		Yes			199 to 220	269 to 420	499 to		\$ 71,000	\$ 102,000	
<a href="#">Tesla Cybertruck</a>	2	Pickup											
<a href="#">Tesla Pickup</a>	2	Pickup		2026				500	600			\$ 138,000	
<a href="#">Toyota Hilux</a>	2	Pickup		TBA									
<a href="#">Toyota Tacoma EV</a>	2	Pickup		2027									
<a href="#">VinFast</a>	2	Pickup		2027				230					
<a href="#">VW Scout Amarok</a>	2	Pickup		2026									
<a href="#">VW Scout Terra</a>	2	Pickup		2027									
<a href="#">Workhorse C1000</a>	3	Pickup		Yea									



# SUVs & Pickups

- 75 SUVs (55/30)
- 10 Pickups (8/0)

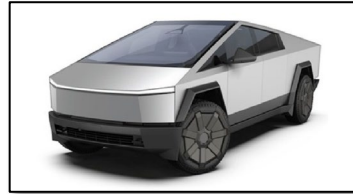


Cadillac  
Escalade  
IQ0- BEV

Rivian RT1-  
Pickup BEV



Ford F150  
Lightning  
BEV



Tesla  
Cybertruck  
BEV



GMC Sierra  
BEV



Dodge Ram 1500 BEV



GMC Hummer BEV



Bollinger B2 BEV

Chevy Silverado  
BEV





# Medium Duty e-Trucks Class 3 to Class 6

Tata Prima  
Electric



Mack MD Electric



Motiv Argo Electric

International  
eMV



Workhorse Electric



# Heavy Duty e-Trucks



Freightliner eCascadia



Tesla Semi



Volvo



Peterbilt 579EV



Kenworth



Ford Semi EV



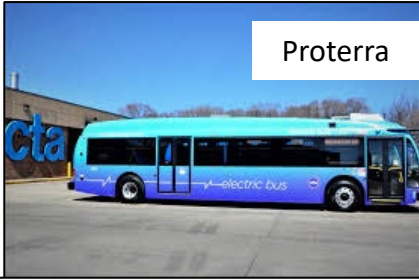
Nikola BEV







- 28 Transit Buses (28/0)
- 15 School Buses (15/0)



Proterra



Volvo



Thomas



Zhengzhou  
Yutong



Tata



Temsa



Solaris



BYD



# Thank You

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