



the
environmental
center

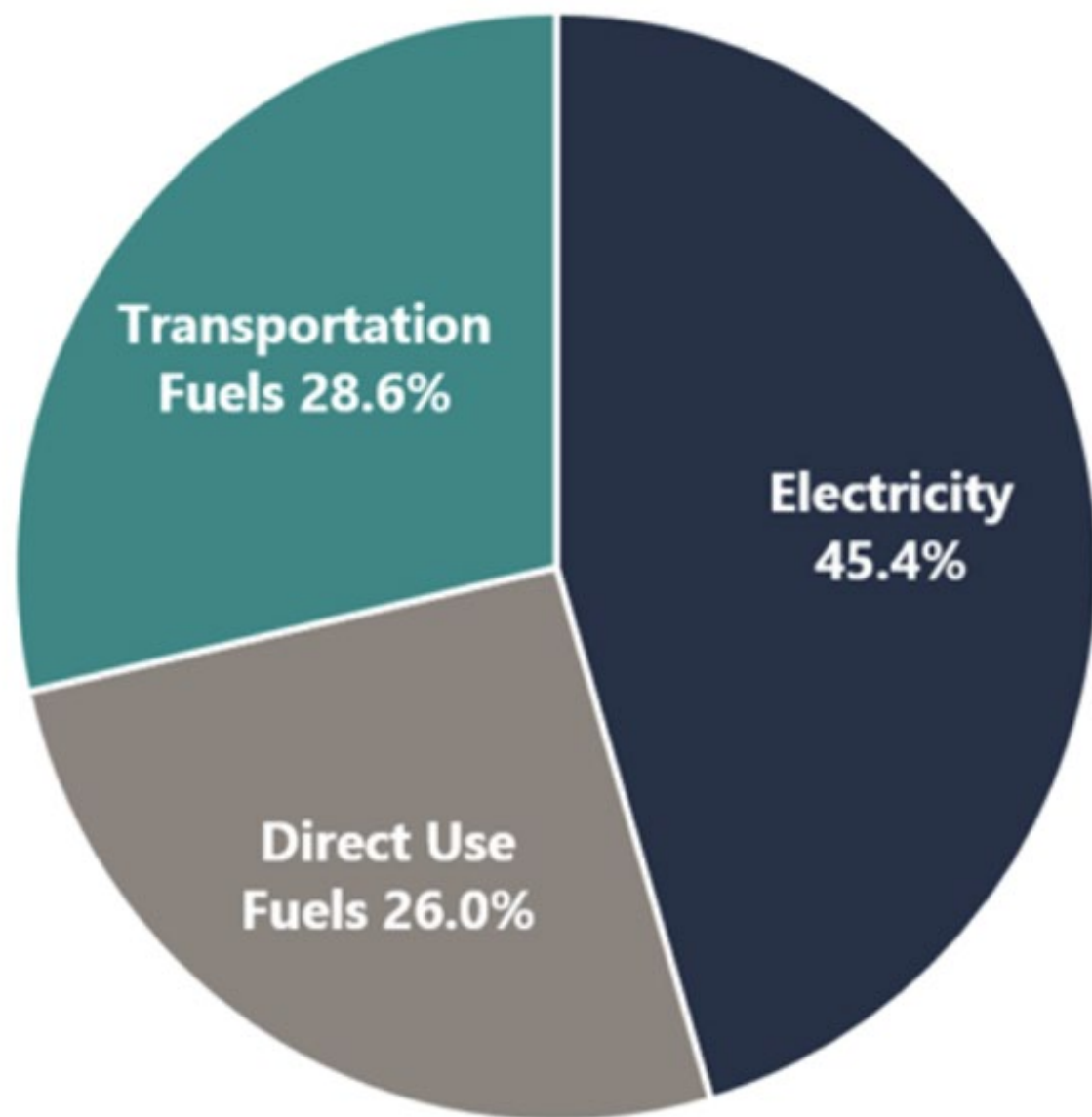
Electric Mobility

How electrifying our cars, bikes, and buses can be used as a climate solution

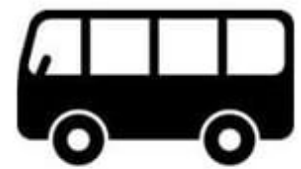
Neil Baunsgard

March 20th, 2023

Why Transportation?



What do we do?



Reduce the need to drive



Electrify what is left

Electric School Bus





What is an e-Bike?

Electric bicycles are like regular bikes, but rely on three components working together to operate: The electric motor, the battery, and the drivetrain.



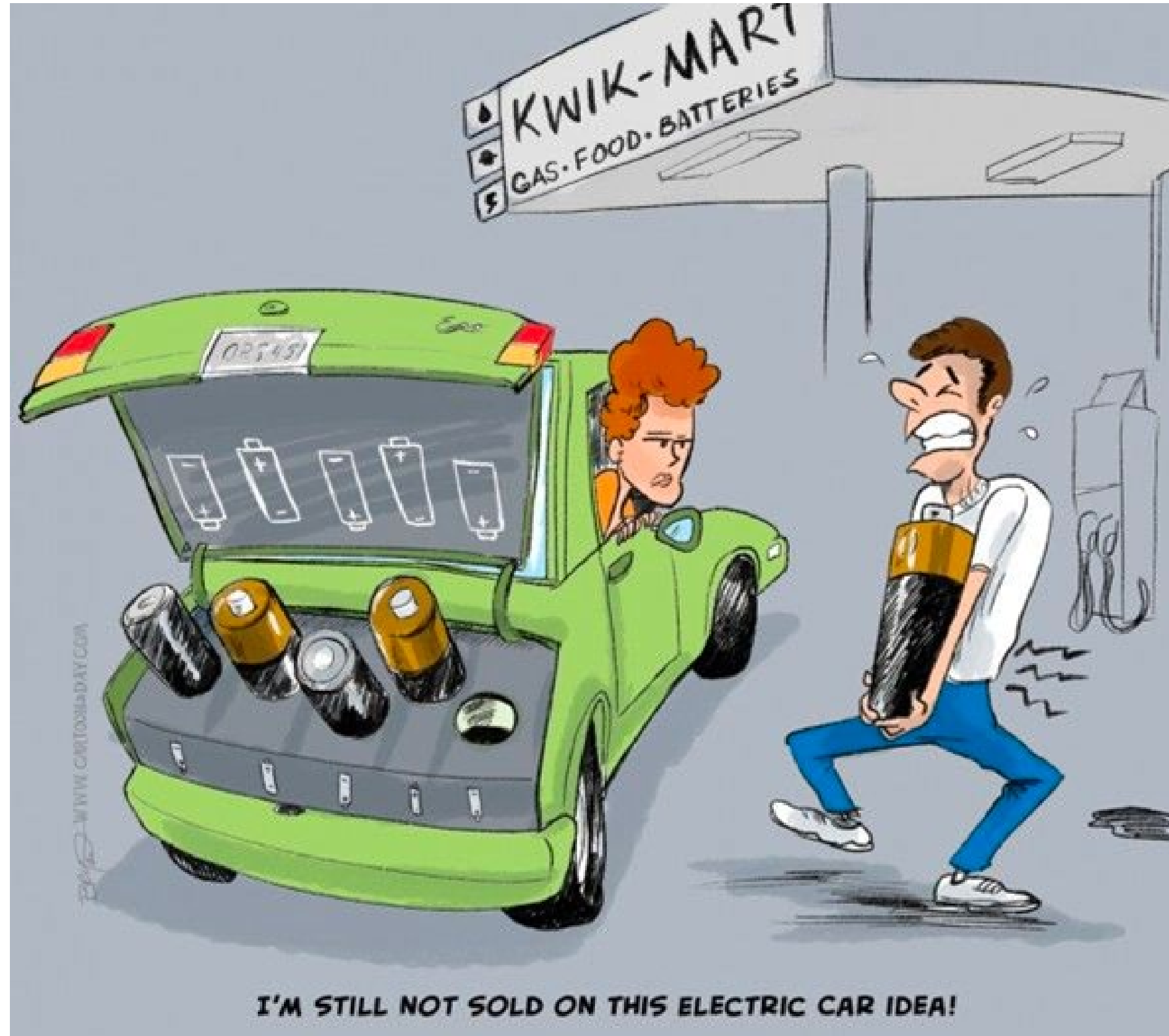


- **<750 Watt Drive Unit:** powered by a lithium-ion battery
- **Charged in 3-4 hrs:** uses standard 110V wall outlet for 20-100 miles per charge.
- **Usually pedal-assist:** drive unit engages only when pedaling, allows assisted speeds of up to 20 or 28 mph. (Can be throttle-controlled up to 20 mph.)

Pedal-assist eBikes preserve the **healthy human element of cycling** with physical and social benefits.



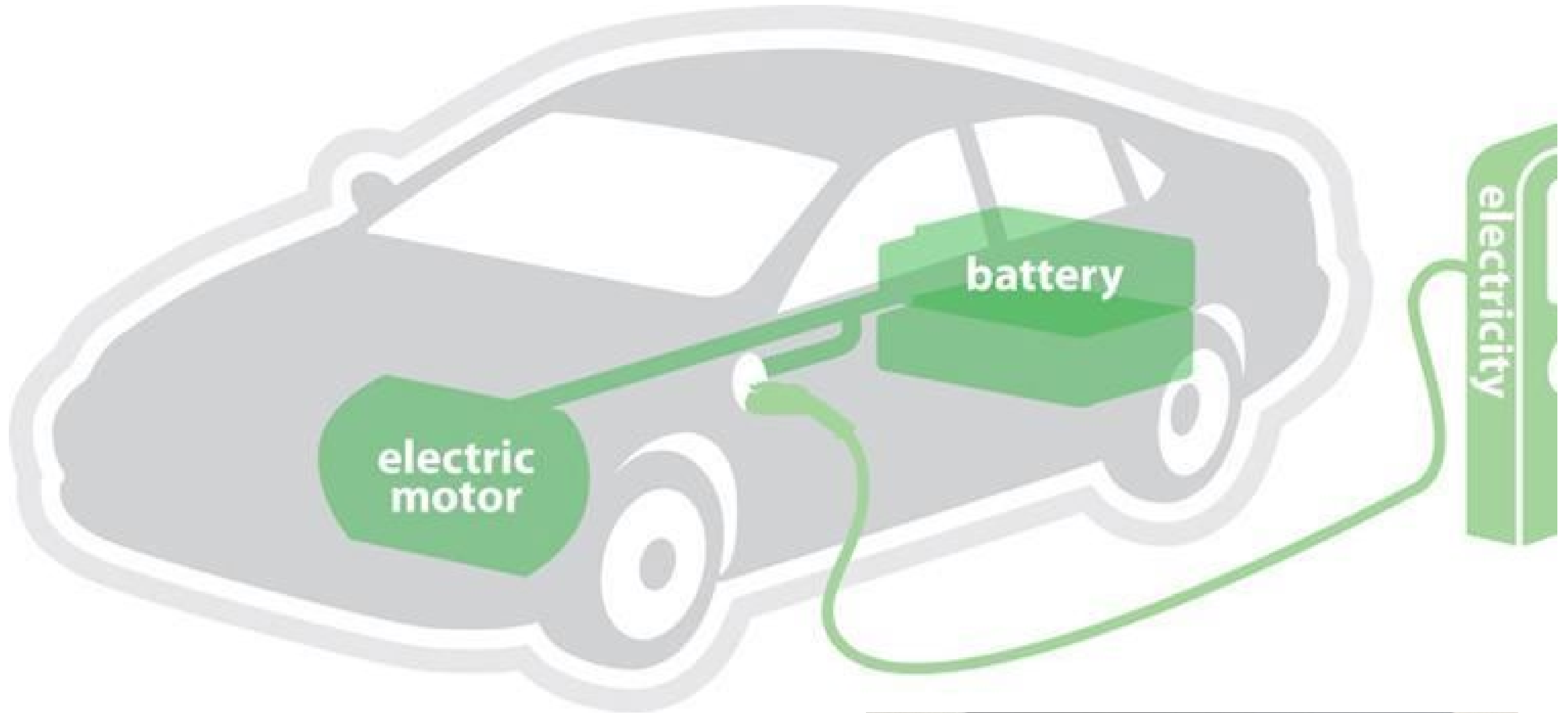
Electric Cars?



I'M STILL NOT SOLD ON THIS ELECTRIC CAR IDEA!

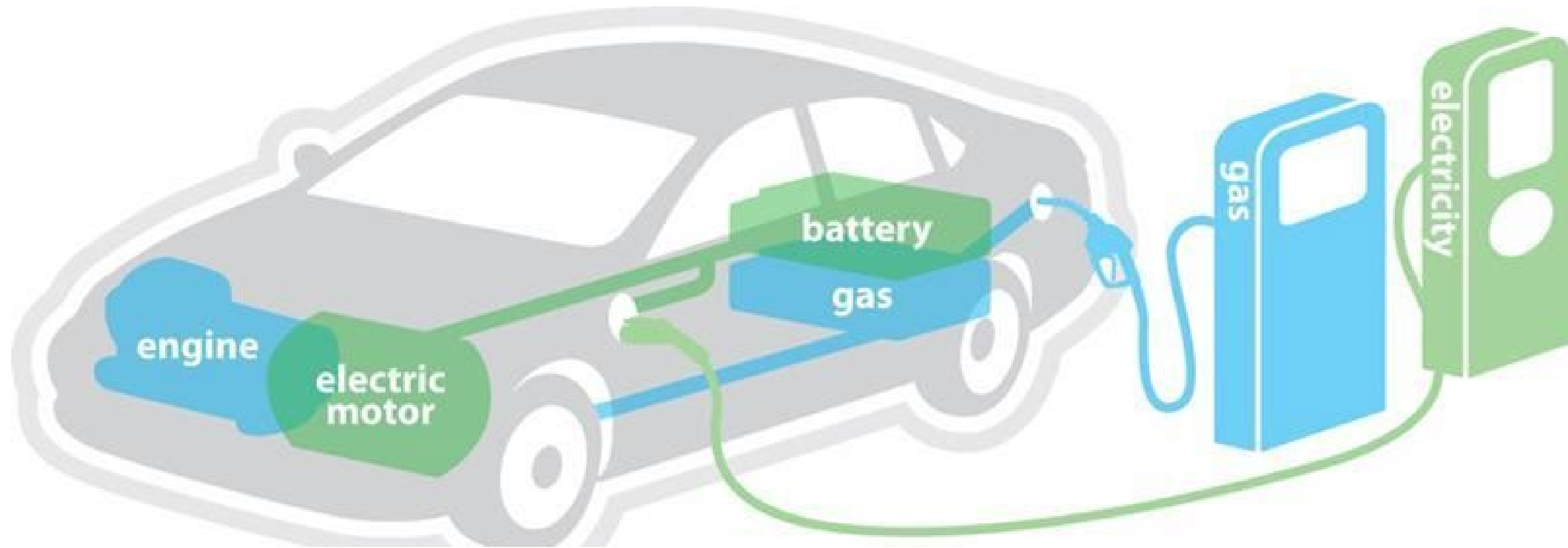


What is an Electric Vehicle?



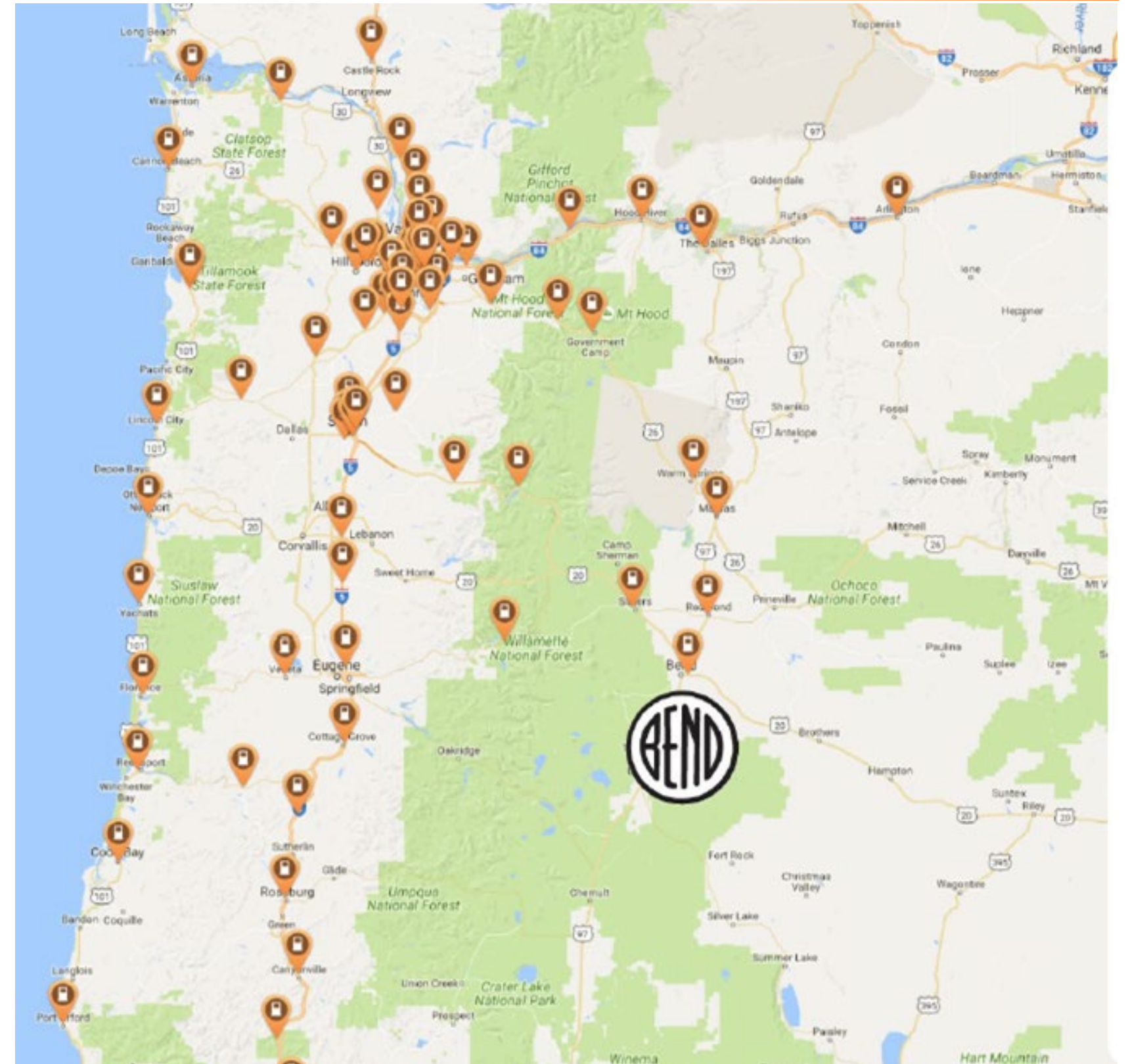


What is a Plug In Hybrid?



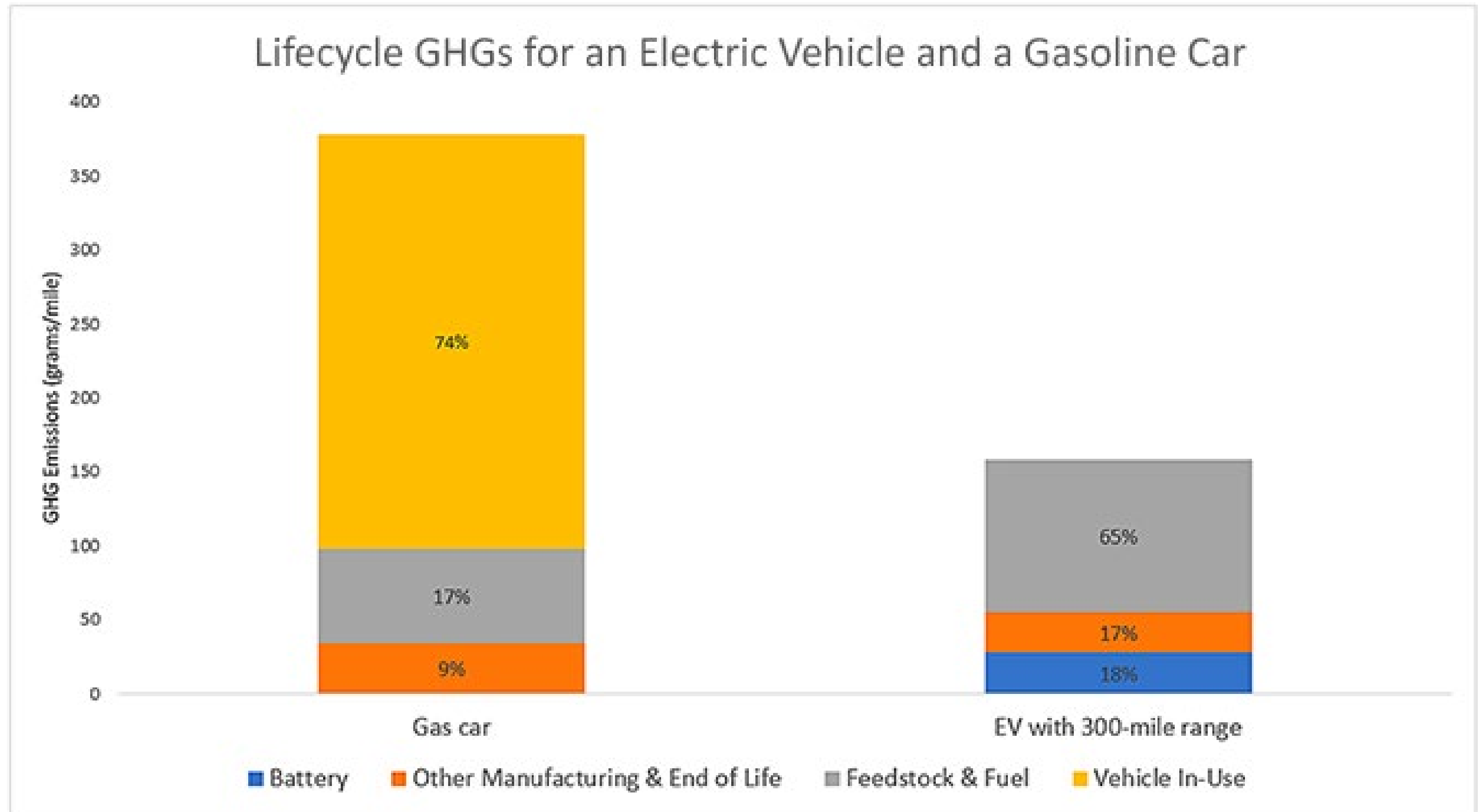


How Does Charging Work?



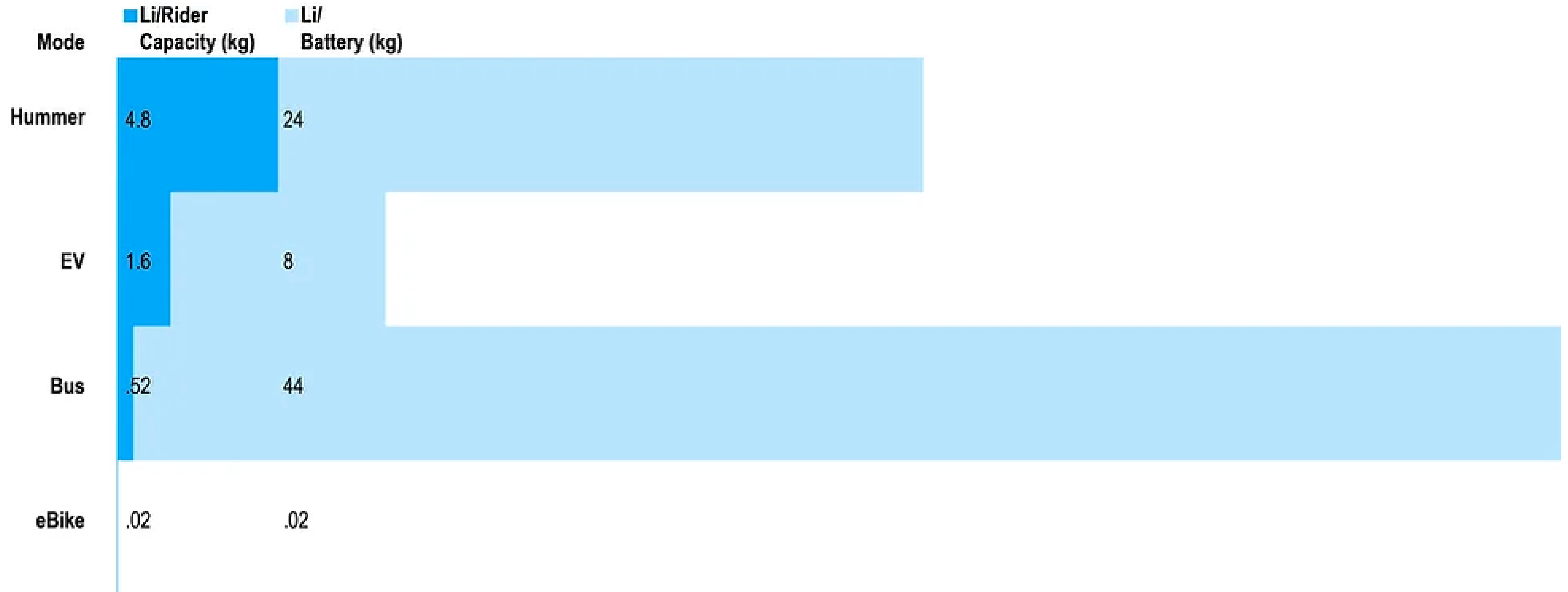


Is it really better for the environment?





We get to choose



A comparative chart of e-Hummer, EV, e-bus, and e-bike lithium intensities.



Oregon's Charge Ahead Incentives

Who:

Income qualified Oregon residents

What Vehicles?

New or used PHEV and BEV Vehicles

How Much?

\$5000

For vehicles purchased or leased on or after Jan. 1, 2022: To determine whether you meet the Charge Ahead income requirements, please reference the table below:

Household Size	Maximum Household Income(Purchase/lease date between 1/12/2022 - 1/15/2023)	Maximum Household Income(Purchase/lease date on/after 1/16/2023)
1	\$54,360.00	\$58,320.00
2	\$73,240.00	\$78,880.00
3	\$92,120.00	\$99,440.00
4	\$111,000.00	\$120,000.00
5	\$129,880.00	\$140,560.00



Bend's Low Income Ebike Rebate

Who:

Income qualified Bend residents

What?

75 qualified participants will received a \$2,000 instant rebate to be used toward the purchase of an e-bike.

When?

Three Lotteries this Spring, Apply by April 14th @12pm to be included in all three



Household Size	1	2	3	4	5	6	7	8
Maximum Gross Income*	\$50,350	\$57,550	\$64,750	\$71,900	\$77,700	\$83,450	89,200	94,950

*Gross income is amount received before taxes

Questions

Please reach out with questions!

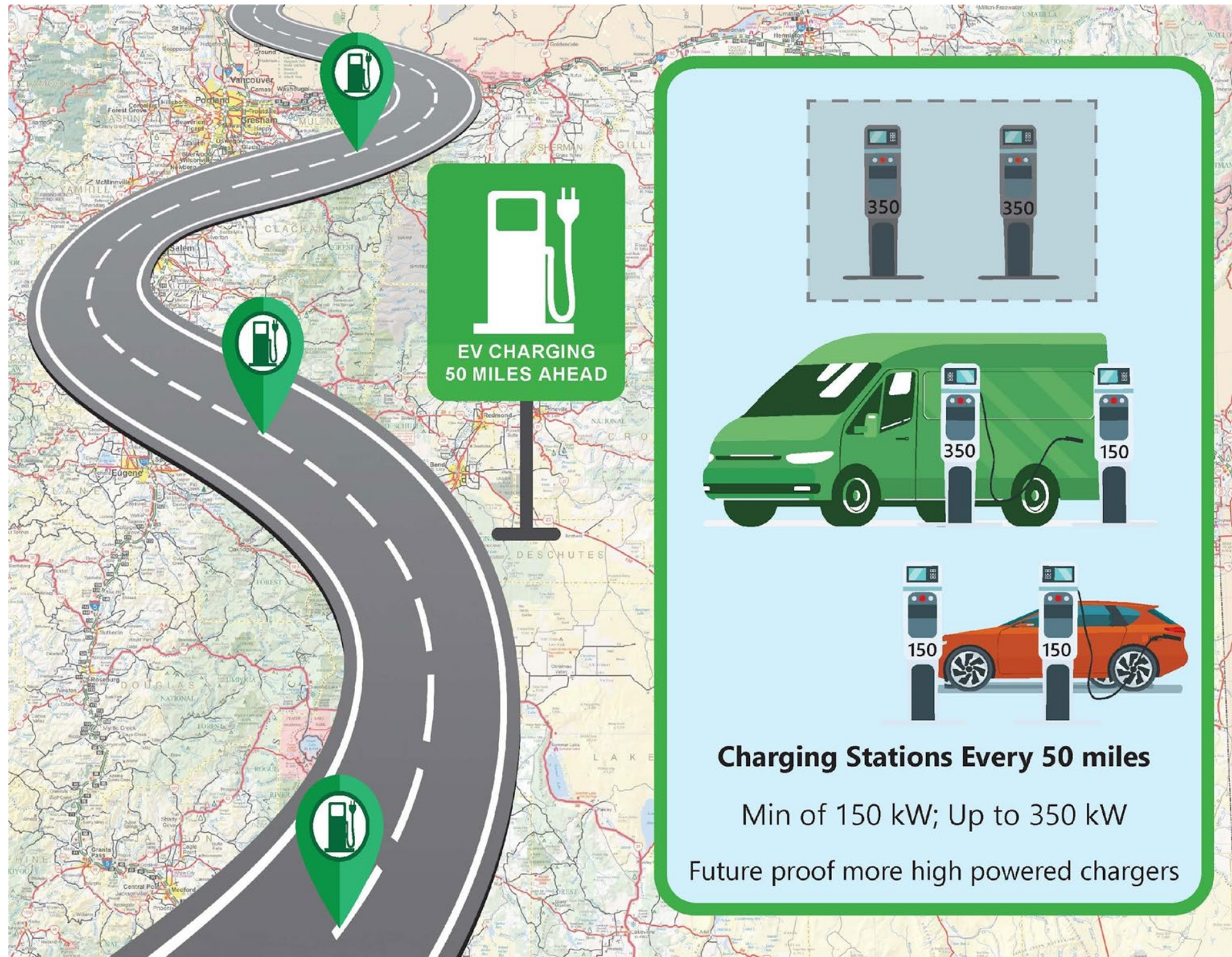
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What is Coming Next?



New EV charging corridors

Figure 1: Planned Implementation Year for Electric Vehicle Alternative Fuel Corridors

