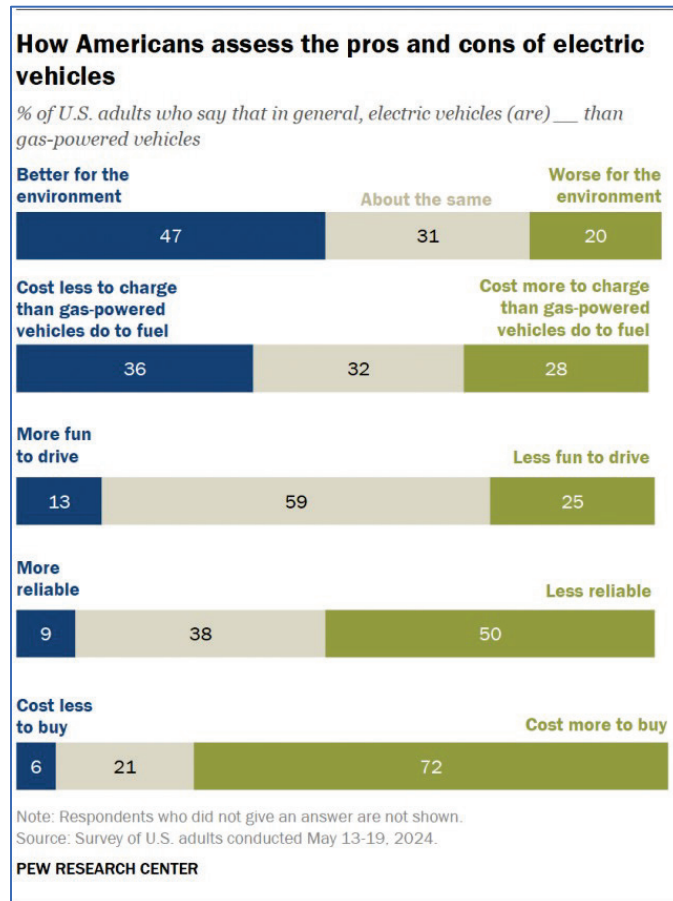


ZEVergreen Initiative – EV Consumer Protection

Problem:

- Electrical Vehicles are perceived to require more maintenance than ICE vehicles. According to PEW Research Center, 50% of Americans have the opinion that EVs require more maintenance than ICE vehicles.¹



- EV battery life and degradation has been found to be significantly better than expected. However, should a battery fail the cost is excessive with replacement costs above \$10,000. Note: A Tesla Model 3 will have a replacement cost of \$13,000. This cost influences adoption and is also an equity issue for lower income individuals who would otherwise choose to continue driving an ICE vehicle due to cost of repairs.
- EVs need to have sufficient lifespan to replace the 10-20% of ICE vehicles that reach 200,000 miles. High component failure rates, high component costs, technical obsolescence, and spare part availability may cause EVs to be retired

¹ "About 3 in 10 Americans would seriously consider buying an electric vehicle" PEW Research Center, June 27, 2024. <https://www.pewresearch.org/short-reads/2024/06/27/about-3-in-10-americans-would-seriously-consider-buying-an-electric-vehicle/>

earlier than ICE cars which would jeopardize the state's Greenhouse Gas Emission goals.

As an example, my son-in-law just purchased a used 2023 Hyundai Ioniq 5 at the beginning of October. The vehicle is currently at the dealer after a flat-bed tow for replacement of the Integrated Charging Control Unit (ICCU). Out-of-warranty repair costs are over \$4000 for a vehicle with slightly more than 100,000 miles.

**r/Ioniq5** • 7mo agoRuna-Amberthorne...

114k miles and ICCU finally gave up

Information

My 2022 has been going strong for 3 years, regular maintenance and recalls done as soon as possible. But now the ICCU failed and needs to be replaced. Can't charge my car at home and I had just installed a new ChargePoint charger at home (spent about \$900 with installation and for the charger).

At the dealership now and it's going to cost me \$4,600 to replace the ICCU.... 😞

 105 

 94



 Share

Solutions:

- Extend EV battery warranty beyond current 8 year/100,000 mile per federal law.
- Provide/mandate low cost extended warranty protection for EV vehicles.
- Subsidize extended warranties for low and moderate income EV owners thus ensuring that promised cost savings of EV ownership are met.
- Mandate OEMs maintain sufficient spare parts for necessary battery/display/charging electronic components 10 years after final manufacture.

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