

## **El costo de mantenimiento de un vehículo a combustión duplica al de un vehículo eléctrico**

### ***Oportunidades e impacto para el sector de energía e infraestructura:***

*Según el último informe de [Consumer Reports](#), una organización independiente especializada en análisis enfocado en el consumidor y transparencia en los mercados, los conductores de vehículos eléctricos están ahorrando en promedio un 50% en mantenimiento y reparación a lo largo de la vida útil de su vehículo comparado con vehículos con motor de combustión (gasolina o diésel).*

*Los mantenimientos de los vehículos eléctricos son menos onerosos y menos frecuentes y este ahorro se compensa con el costo inicial de adquisición de una unidad eléctrica.*

*Consumer Reports emplea como parámetro 200 mil millas (casi 322 mil kilómetros) para representar la vida útil de un automotor. Basado en datos obtenidos por encuestas a consumidores, el costo promedio de mantenimiento durante la vida útil de un vehículo eléctrico es de \$0.03 por milla mientras que el de un vehículo de combustión es de \$0.06 por milla.*

*El costo de mantenimiento y reparación de un vehículo de combustión en los Estados Unidos es de \$9.200 mientras que el de un vehículo eléctrico es de \$4.600. Esto representa un ahorro del 50%.*

*Otro beneficio de los vehículos eléctricos es que emiten 60% menos emisiones de dióxido de carbono que los carros convencionales y además reducen la contaminación ambiental que afecta la salud de la población.*

*La [Agencia Internacional de Energía](#) (IEA por sus siglas en inglés) estima que pese a la pandemia del COVID 19, el mercado de vehículos eléctricos seguirá creciendo y que hay una tendencia a fortalecer la eficiencia tanto en la movilidad como en la infraestructura de carga asociada.*

### **It's Official — Consumer Reports Confirms EV Owners Spend Half As Much On Maintenance**

Data is king, and when it comes to information on the frequency of repairs on automobiles, [Consumer Reports](#) has more data than anyone. For its [latest report](#), it did a deep dive into the data from its 2019 and 2020 reliability surveys of electric and gasoline powered vehicles. After crunching all the numbers, Consumer Reports says “drivers of electric vehicles are saving an average of 50% on maintenance and repair over the life of a vehicle compared to owners of gas-powered vehicles.”

Chris Harto, CR’s senior transportation policy analyst, says: “Electric vehicle owners don’t need a coupon to get half-off typical maintenance and repair costs from their dealer, it comes standard! These savings are going a long way to offset the upfront costs for consumers.”

“Electrics just don’t need as much maintenance as gas-powered cars, and even though repairs won’t necessarily be less expensive, they are less frequently needed,” explains Gabe Shenhar, associate director of CR’s Auto Test Center, which specializes in electric vehicle testing. “In addition to being easier and cheaper to maintain, many EVs deliver better acceleration compared to gas-powered vehicles and don’t pump harmful pollution into our air,” he adds.

For purposes of its research, Consumer Reports uses 200,000 miles to represent the normal service life of an automobile. On that basis, its data shows the following average cost per mile of repairs for battery electric vehicles, plug-in hybrid vehicles, and gasoline powered vehicles.

**Table 2.1. Estimated Per-Mile Repair and Maintenance Costs by Powertrain**

Powertrain Type	0-50K Miles	50K-100K Miles	100K-200K Miles	Lifetime Average
BEV	\$0.012	\$0.028	\$0.043 <sup>7</sup>	\$0.031
PHEV	\$0.021	\$0.031	\$0.033 <sup>5</sup>	\$0.030
ICE	\$0.028	\$0.060	\$0.079	\$0.061

*Credit: Consumer Reports*

Note that the costs for [plug-in hybrids](#) are essentially the same as the costs for battery electric vehicles, a finding that lends support to the idea of driving a PHEV if you are not ready to dive into the deep end of the electric car pool yet. Just as marijuana may be a gateway drug to cocaine, a plug-in hybrid can be the introduction to driving on electrons that takes away the fear many people have of EVs. The next chart estimates the total cost of repairs over a car’s useful life.

**Table 2.2. Lifetime Maintenance Costs by Powertrain**

Powertrain Type	Lifetime Maintenance and Repair Cost	Lifetime Savings vs. ICE
ICE	\$9,200	
BEV	\$4,600	\$4,600
PHEV	\$4,600	\$4,600

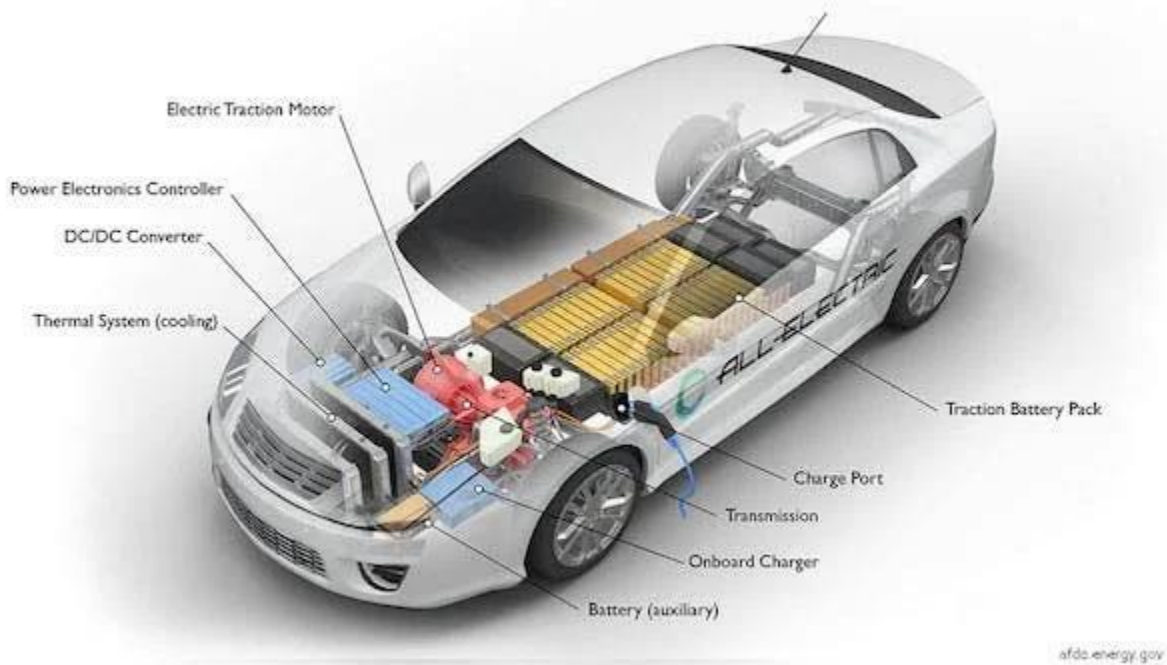
*Credit: Consumer Reports*

In a [separate study](#), Consumer Reports states that, on average, electric cars emit 60% less carbon dioxide than conventional cars. “In addition to reducing greenhouse gas emissions, EVs can also

help reduce the air quality impacts of harmful criteria air pollution, such as NO<sub>x</sub>, ozone, and particulate matter, that are known to create smog and can cause lung diseases.”

Many cars cost less to purchase than an electric car, but then again, how much are your lungs worth? How much are your children’s lives worth? Not only are maintenance costs for EVs half those of conventional cars, electricity costs about half as much as gasoline, even at today’s absurdly low gas prices. Low maintenance, low operating costs, proven environmental benefits. At this, the only question is, if you are not driving an electric car, why not?

### All-Electric Vehicle



*Credit: Department of Energy*

**Fuente:** Steve Hanley publicado por [CleanTechnica](#), 26-septiembre-2020.