

Have you noticed that there are more and more electric cars on the roads?

- How are they different than internal combustion vehicles—those that are powered by the burning of gasoline? If you don't know, guessing is okay for now.
- OTHER QUESTIONS TO ANSWER
 - Do you know anyone who has an electric car? Write a paragraph about that.
 - Why the push toward electric vehicles (EVs)?
 - There are pros and cons regarding EVs. Can you list some?



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Possible answers:

- How are they different than internal combustion vehicles—those that are powered by the burning of gasoline? If you don't know, guessing is okay. **Electric cars are powered by rechargeable batteries, so they run on electricity. Instead of visiting a gas station for fuel, the cars can be charged with household electricity, or at special charging stations.**
- **OTHER QUESTIONS TO ANSWER**
 - Do you know anyone who has an electric car? Write a paragraph about that.
 - Why the push toward electric vehicles (EVs)? **Coal, petroleum and natural gas are fossil fuels—that means they formed underground, long ago, from the remains of dead organisms. And fossil fuels take millions of years to form. As such, they are considered non-renewable resources. Gasoline is refined from petroleum, and once that is used up, it is gone forever. Electricity can be generated from the burning of fossil fuels, but also from renewable resources such as solar, wind and water power. These renewables provide power with less pollution and will last as long as the planet does!**

There are pros and cons regarding EVs. Can you list some?

PROS

- Not dependent on non-renewable fossil fuels for power
- Less polluting, including carbon dioxide pollution, which contributes to Climate Change
- They can be powered up at home. If one puts solar panels on their rooftop, or in a community station, EVs can be charged up for the cost of the panels, their installation and maintenance.

CONS

- Can be more expensive than gasoline powered vehicles
- Must plan ahead to make sure charging stations are available if one cannot charge at home
- Battery production uses a variety of resources and energy, and if the batteries are being recharged with fossil fuel energy, there is still CO₂ being produced, albeit less per mile driven.
- Battery disposal may be problematic.
- There are many other issues to consider. Do more research using expert sources.