

ELECTRIC CARS



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What is an Electric Car?



ELECTRIC CARS

What is an electric car?

Propelled by electric
motors



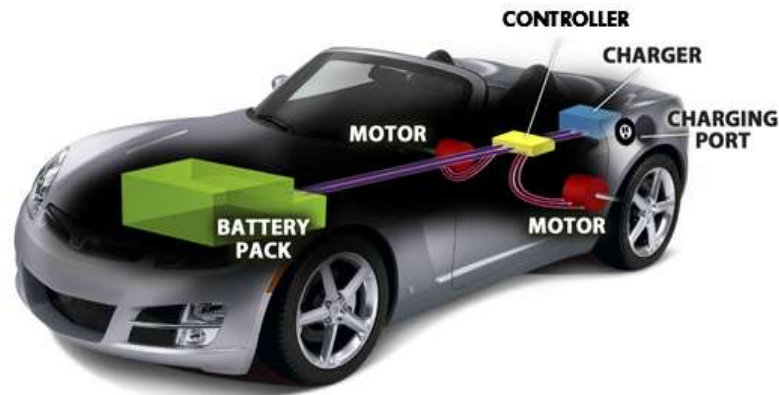
Uses electrical
energy stored in
batteries

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How does it work?

Has three main parts;

Controller



Electric Motor

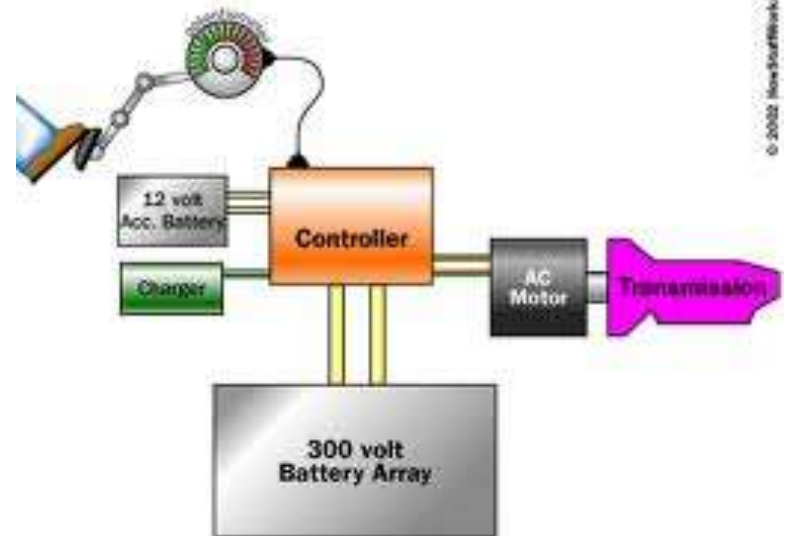
Battery

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How does it work?

When the pedal is pushed;

1. The controller gathers energy from the battery,
2. Controller delivers the appropriate amount of electrical energy to the motor.
3. Electric energy transforms to mechanical energy.
4. Wheels turn, vehicle moves.





0 km/h

12:23 PM
24°C

FOR A DOLLAR HOW FAR CAN YOU TRAVEL?



ELAPSED TIME 2:38
DRIVING DISTANCE 85.0 km




12315 km
3824 km



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Economical Advantages

You can drive up to 70 KM according to the The United States
Department of Energy.  iciency.



Even for a low fuel consumption car* in Turkey you
can drive about 7 KM max for a dollar's worth
gasoline.

* Hyundai Getz 1.4

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Economical Advantages



- Rechargeable batteries have a long useful life.
- Low operating costs
- Reduced cost of wear and tear during routine maintenance.



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\$ Economical Advantag \$

In a documentary by Nissan,
it was estimated that the 5-year operating cost for
a standard battery-powered vehicle to be around
\$1,800, while the 5-year operating cost of a gasoline
car is \$6,000.



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Environmental Benefits



Less Carbon Emission – No Air Pollution

No Fire Hazards



Less Noise
Pollution

Recycleable Batteries – No Disposal Problem

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Environmental

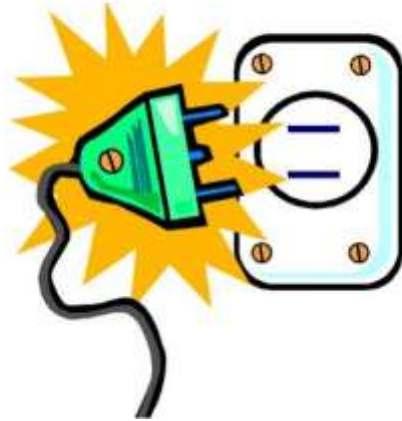


According to the Electric Vehicle Association of Canada, or EVAC, even EVs recharged from coal-powered electric generators cut carbon emission roughly in half.

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Availability
Advantage



Electricity is not
scarce unlike
gasoline

External tools to
make it possible to
even charge at
home



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Disadvantages

- High Recharge Time

- Limited Service Facilities

- Cost Of Vehicles

- Few Models

- Speed



Electric vs. Gasoline

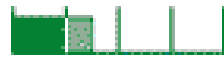
No Tailpipe Emissions



Utility Company



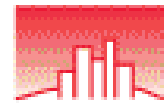
100+/- Mile Range



Hours to Recharge



2 cents per mile



Greenhouse Gases/Pollution



OPEC



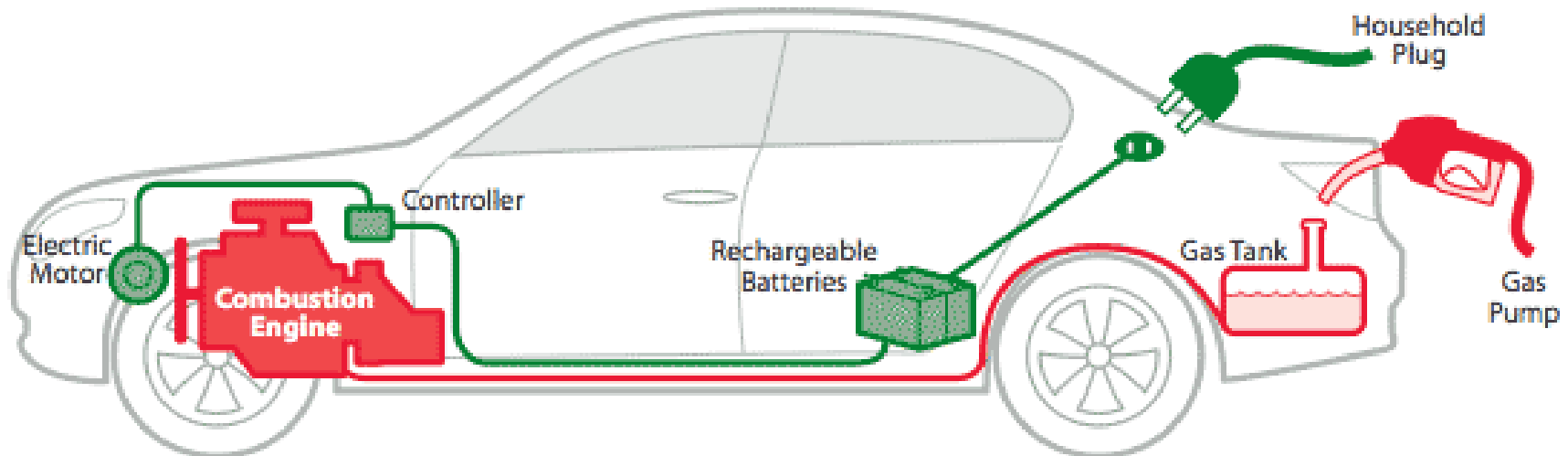
300+ Mile Range



Minutes to Refuel



12 cents+ per mile



"If this is the future, I'm not that worried." *Jay Leno*
(after driving an electric car)

