

EV SNAPSHOT

EV = Electric Vehicle

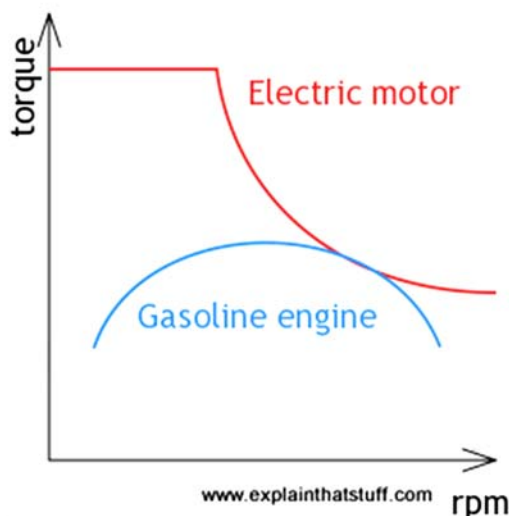
PHEV = Plug-in Hybrid Electric Vehicle

Chevrolet Spark EV Specs

- **Horsepower = 140**
- **Torque = 327 lbs-ft**
- **0-60 MPH = 7.9 sec.**
- **Battery Size = 21 kWh**
- **MPGe = 119**
- **EPA range = 82 miles**
- **Time to recharge (0-100%)**
 - **120v = 20 hrs**
 - **240v = 7 hrs**(Many EVs have 2x faster charge rates.)

EVs, PHEVs and traditional hybrids get better mileage in town

- **Regenerative Braking**
- **No idling**
- **No shifting gears**



Performance

Most Common Concerns

- Limited range
- Long recharge times
- Battery life
- Higher cost
- Are they really cleaner?

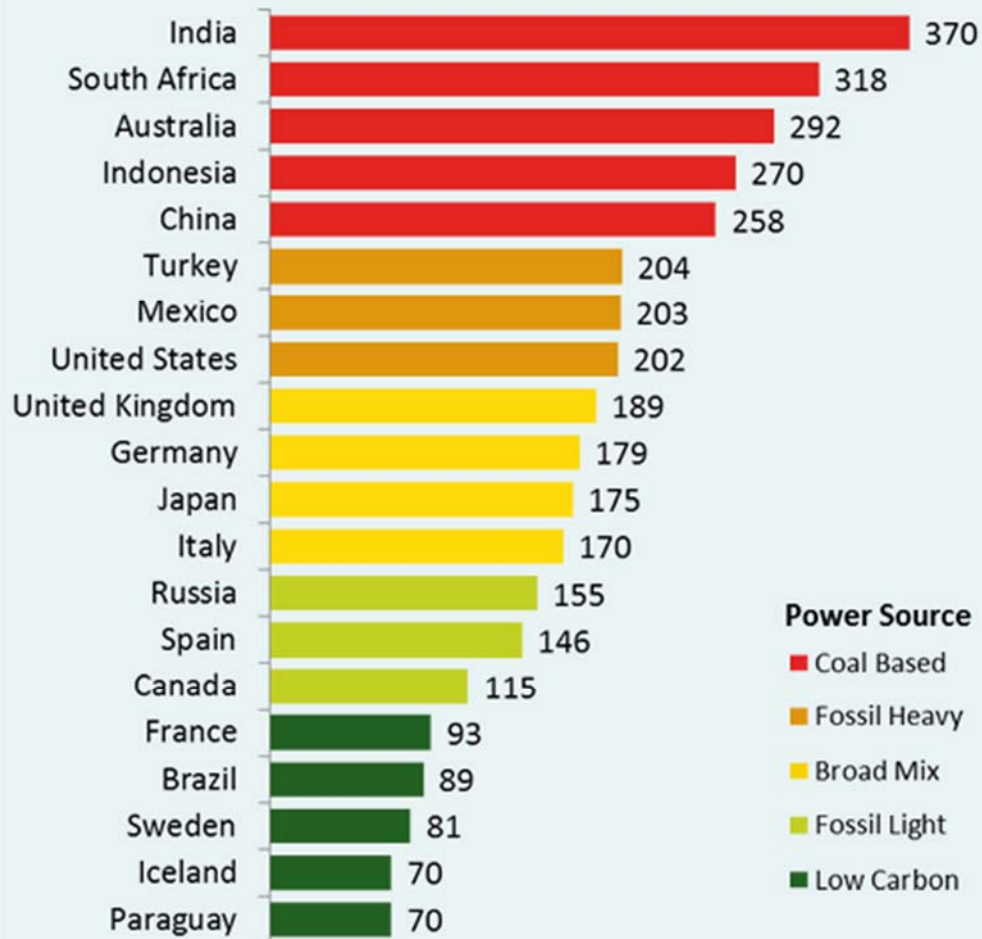
Addressing Concerns

- More practical in multi-vehicle households.
- PHEVs blend gas & EV benefits.
- Charging rarely starts at 0%.
- An 80-90% charge is significantly shorter than a full charge (charge rate slows).
- Charging while sleeping is effective.
- Long warranties on battery / motor (i.e. 8/yr 100,000 mile)
- Large Federal and State tax incentives.
- See life cycle emission graph on back.

Pros:

- Responsive Performance
- \$1.12 per gallon equivalent
- Zero tailpipe emissions
- Quiet
- Low maintenance (i.e. no oil changes)
- No transmission

Electric Cars' Carbon Emissions: g CO₂e/km



Note: Results include emissions for vehicle manufacturing, direct grid emissions, indirect grid emissions and losses. Based on national averages for 2009.

Sources: DEFRA, GHG protocol, IEA, EPA, GREET, LCA literature

Gasoline powered vehicles average 300 g CO₂e/km