

Spinning the Carbon-Wheel of Chance!



What color are your BEV electrons?

Technically speaking, electrons have no color. However in an attempt to gain a better foothold on decarbonizing the world, policymakers have invented a rainbow classification for color-coding the source generator of electrons for hydrogen. The source-generator, be it a nuclear power plant, coal-fired furnace, dam or solar and wind, applies equally to Battery Electric Vehicles (BEV) as well as hydrogen production.

If a charging station is connected to the grid in order to handle the volume of charges, there is indeed a carbon footprint associated with zero-emissions cars. BEVs are not exempt. **Do you know where your electrons came from?**

- **Green:** renewables | *No CO2 emissions*
- **Blue:** sourced from fossil fuel, but CO2 is captured | *Carbon neutral*
- **Grey:** fossil fuel (SMR) | *CO2 is released*
- **Black or Brown:** Gassification of Coal | *emissions and CO2 released*



- **Turquoise:** thermal-splitting of methane | *CO2 is sequestered in solid form*
- **Purple:** electrolysis from nuclear power + heat combined in chemo thermal electrolysis
- **Pink:** electrolysis from nuclear power
- **Red:** high-temperature catalytic splitting of water with nuclear power thermal as an energy source
- **White:** Naturally occurring hydrogen