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Car Emissions and AQI

- What is AQI?
- Car Emission Poisoning Symptoms
- Short-term and long-term effects
- Comparison of Electric cars and Gas-Powered Cars
- Car Emissions
- Electric Car Emissions



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<https://usafacts.org/articles/how-much-emissions-do-electric-cars-produce/>



AQI

AIR QUALITY INDEX - PARTICULATE MATTER	
301+	HAZARDOUS
201-300	VERY UNHEALTHY
151-200	UNHEALTHY
101-150	UNHEALTHY FOR SENSITIVE GROUPS
51-100	MODERATE
0-50	GOOD

Air Quality Index:

- Determines how unhealthy our air is
- AQI tracks 5 air pollutants: Ground level ozone, Carbon monoxide, Sulfur dioxide, Nitrogen dioxide, airborne particles and aerosols

AQI Importance

- To inform and aware the public about the risks of daily population level
- Individuals with diabetes, lung disease, heart disease, older people, and children are more sensitive to air pollution.

Car Emissions Poisoning Symptoms



- Gas-powered cars emit CO₂, methane and nitrous oxide
- Symptoms of carbon monoxide poisoning include headache, vomiting, and loss of consciousness. (more likely to cause loss of oxygen)
- Symptoms of Nitrogen oxides poisoning include wheezing, bronchospasm and at high levels of exposure pulmonary edema.

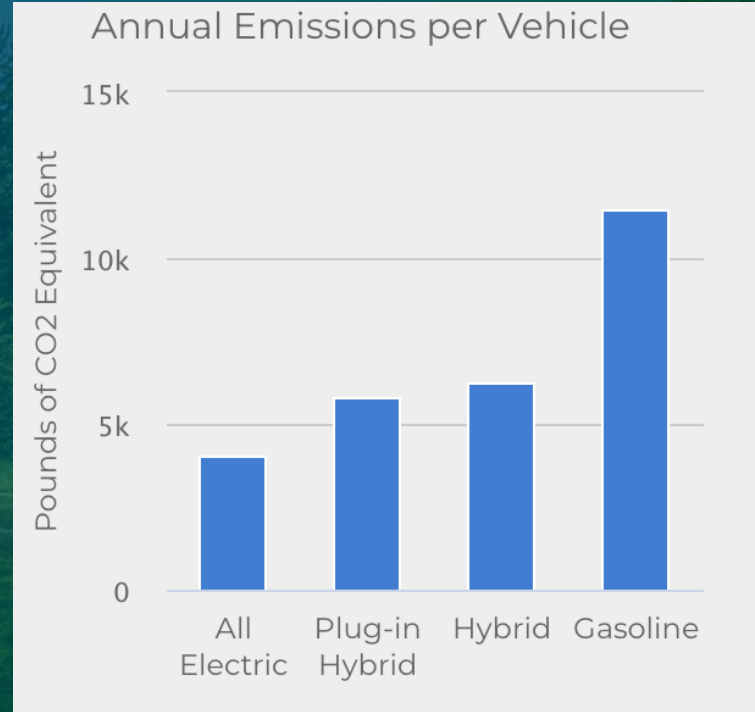
Short- and Long-Term Health Effects

Short Term effects	Long Term effects
Breathing Difficulties	Cardiovascular Disease
Coughing	Infant Mortality
Chest Tightness	Chronic Lung Disease
Pneumonia	Ischemia

<https://www.news-medical.net/health/What-are-the-Health-Effects-of-Exhaust-Emissions.aspx>

Car Emissions

- Gas-powered cars produce about 11.4K pounds of emission every year
- Electric cars produce 3,932 pounds every year
- To increase electric car sales Biden expanded tax credits for electric vehicles

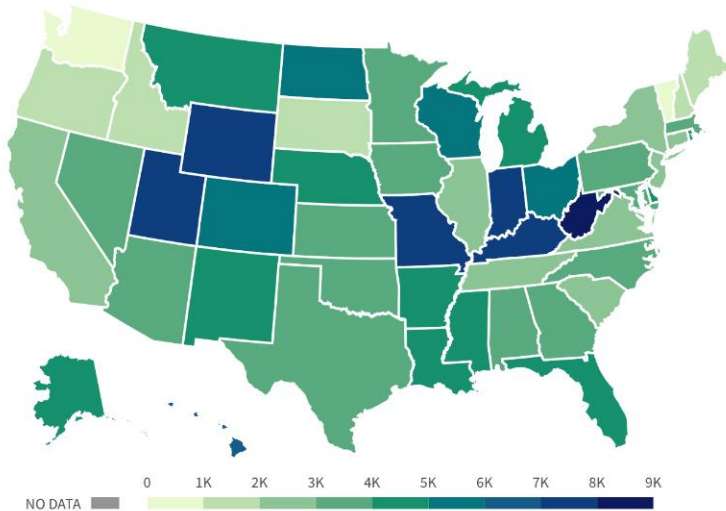


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<https://www.epa.gov/greenvehicles/greenhouse-gas-emissions-typical-passenger-vehicle#other-sources>

Electric Cars Emissions

Average annual emissions per all-electric vehicle by state (2016)



- Electric cars emissions depend on how much power a state produces
- Electric vehicles rely on either low-emission renewable sources of electricity or high emission fossil fuels sources depending on the state.

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