no emissions from the on-board source of power.

This Electric Vehicle classification is based on a vehicle that produces emissions than an equivalent gasoline-powered vehicle.

This electronic device if used in combination with modern electronic standards.

This controllable source of electricity, and an internal combustion engine for propulsion.

Is an efficient power switch that reduces power loss, during "Turn-on" and conduction.

Is a generic term for any embedded system that controls one or more of the vehicle's systems.

It refers to using the voltage generated by a spinning motor (EMF) to control the speed of the motor's rotation.

Is a technology that uses optics such as lenses or curved mirrors to concentrate light on a small area and focus it into a continuous magnetic field, which is being used inside induction motors to eliminate "slip", and produce better energy efficiency over a wider speed range.

Is a unit of measure of the amount of electric charge passing a point in an electric circuit per unit time.

Is a technology that uses capacitors and other energy storage devices to store electric power.

Is an agency that supports research and education in all the non-medical sciences.

Is the chemical compound symbol for a type of rechargeable lithium ion battery that is partially sealed, but have vents so it cannot spill out. They are partially sealed, but have vents so it cannot spill out. They are partially sealed, but have vents so it cannot spill out.

Is a US trade association, that creates and maintains private, copyrighted, standards that define how digital devices typically deployed in the home (possible application: communication between smartgrid devices).

Is a type of rechargeable lead acid battery that is pressurized and sealed (thickened) so it cannot spill out. They are partially sealed, but have vents so it cannot spill out.

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Is a US trade association, that creates and maintains private, copyrighted, standards that define how digital devices typically deployed in the home (possible application: communication between smartgrid devices).

Is the process of turning the sun's energy into electricity.

Glossary of Electric Vehicle Technology Terms

Vehicle Types

- **ICE**: Internal Combustion Engine
- **PHEV**: Plug-in Hybrid Electric Vehicle
- **HEV**: Hybrid Electric Vehicle
- **EREV**: Extended Range Electric Vehicle
- **BEV**: Battery Electric Vehicle
- **AER**: All Electric Range
- **HDEV**: Hybrid Diesel Electric Vehicle
- **NEV**: Neighborhood Electric Vehicle
- **CFV**: Clean Fuel Vehicle
- **AEDV**: All Electric Drive Vehicle
- **BEV**: Battery Electric Vehicle
- **HBEV**: Hybrid Battery Electric Vehicle
- **H2V**: Hydrogen Fuel Electric Vehicle
- **CFV**: Clean Fuel Vehicle
- **ICE**: Internal Combustion Engine
- **CFV**: Clean Fuel Vehicle
- **ICE**: Internal Combustion Engine

Types of Vehicles

- **BEV**: Battery Electric Vehicle
- **HEV**: Hybrid Electric Vehicle
- **EREV**: Extended Range Electric Vehicle
- **PHEV**: Plug-in Hybrid Electric Vehicle
- **H2V**: Hydrogen Fuel Electric Vehicle
- **EV**: Electric Vehicle
- **AEDV**: All Electric Drive Vehicle
- **HHEV**: Hybrid Hydrogen Electric Vehicle

Vehicle Supply Equipment

- **Electric Vehicle Supply Equipment (EVSE)**: The equipment in an infrastructure that supplies electricity for charging of Electric Vehicles.
- **Electric Vehicle Charging Station**: A place where Electric Vehicles can be charged.
- **Electric Vehicle Charger**: The device that supplies electricity to an Electric Vehicle at a charging station.

Government

- **U.S. Department of Energy (DOE)**: The federal agency that promotes the development of clean energy technologies, including electric vehicles, through research, development, and deployment.
- **Federal Energy Regulatory Commission (FERC)**: The federal agency that regulates the transmission and distribution of electricity, natural gas, and wholesale sales of electric power.
- **Environmental Protection Agency (EPA)**: The federal agency that regulates air and water pollution, and sets standards for emissions and energy efficiency.
- **National Highway Traffic Safety Administration (NHTSA)**: The federal agency that regulates vehicle safety standards and conducts vehicle safety testing.

Electric Vehicle Battery Technology

- **Lithium-Ion Battery**: The most common type of battery used in electric vehicles, characterized by high energy density and long lifespan.
- **Lithium-Nickel-Manganese-Oxide Battery**: A type of lithium-ion battery that uses lithium and nickel manganese oxide as electrodes.
- **Solid-State Battery**: A type of battery that uses solid electrolytes instead of liquid electrolytes, potentially offering higher energy density and safer operation.

Vehicle Evolution

- **First Electric Vehicles**: Vehicles powered by electric motors, often used by the military and for special applications.
- **Early Electric Vehicles**: Vehicles powered by electric motors, often used for transportation and recreation.
- **Modern Electric Vehicles**: Vehicles powered by electric motors, often used for transportation and recreation.

Electric Vehicle Industry

- **Electric Vehicle Association (EVA)**: A trade organization representing the electric vehicle industry.
- **Electric Vehicle Infrastructure Institute (EVII)**: A trade organization representing the electric vehicle infrastructure industry.
- **Electric Infrastructure Association (EIA)**: A trade organization representing the electric infrastructure industry.

Future of Electric Vehicles

- **Autonomous Electric Vehicles**: Vehicles that can operate without human intervention, potentially offering increased safety and efficiency.
- **Self-Driving Electric Vehicles**: Vehicles that can operate without human intervention, potentially offering increased safety and efficiency.
- **Electric Vehicle Charging Stations**: The infrastructure necessary for vehicles to be charged, potentially including fast-charging stations for rapid recharging.

Electric Vehicle Technology

- **Electric Vehicle Battery**: The energy storage component of an electric vehicle, typically a lithium-ion battery.
- **Electric Vehicle Charger**: The device that supplies electricity to an electric vehicle at a charging station.
- **Electric Vehicle Supply Equipment (EVSE)**: The equipment in an infrastructure that supplies electricity for charging of Electric Vehicles.
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