

## A GUIDE TO ELECTRIC VEHICLES

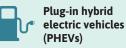
Global sales of electric vehicles (EVs), including cars and bicycles, are rising rapidly thanks to an increased interest in minimisation of fossil fuel use by environmentally conscious consumers. In using energy storage systems such as lithium-ion batteries, these vehicles present a set of safety risks that necessitate the use of specific types of personal protective equipment (PPE).







Battery electric vehicles (BEVs) are powered only by electricity. They are also referred to as 'plug-in' EVs as they require access to an external outlet to charge the battery. They lack an internal combustion engine, fuel tank and exhaust system.



Plug-in hybrid electric vehicles (PHEVs) are powered by a combination of fuel and electricity. They contain an internal combustion engine that uses liquid fuel and a plug for use with external outlets to charge the battery.



**TYPES OF ELECTRIC VEHICLES** 

Non plug-in hybrid electric vehicles (HEVs)

Non plug-in hybrid electric vehicles (HEVs) are like PHEVs but rely on electricity generated by the car's braking system to recharge the battery, rather than plugging in to an outlet.



H<sub>2</sub>

Fuel cell electric vehicles (FCEVs) are the least common format, utilising a fuel cell rather than a battery (or in combination with a battery or supercapacitor) to power electric motors. They are typically fuelled by hydrogen.

## **ANSELL INDUSTRIAL ELECTRIC VEHICLE SOLUTIONS**

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