

EV GLOSSARY

There is a lot of terminology in the electric vehicle world. Below are some of the more common terms you may hear:

Electricity that regularly changes direction many times a second, which is the kind of power

AC (ALTERNATING CURRENT)

that comes from the power plant to homes and businesses. It is the most common form of electrical power used in residential and commercial settings. **BEV (BATTERY ELECTRIC VEHICLE)**

A 100% battery-powered Electric Vehicle therefore, must be plugged into an external electricity source in order to recharge.

CARD READER

Where you tap your card on the charger to authorise payment.

CHARGE POINT

A piece of electrical infrastructure which electric vehicles can be plugged into and recharged, whether at home, work or in a publicly accessible location.

sized card that allows you to start and stop a charge on the ESB public charging network. Also known as a RFID card.

CHARGE POINT ACCESS CARD/RFID CARD

An ESB charge point access card is a credit card

Electricity that maintains a constant flow in one direction and is the type of power that comes from a battery. All energy stored in batteries is stored as DC.

Hyundai, Ford, Mercedes etc use this connector type. This plug/socket combines

AC charging and DC charging in one unit, using different pins.

CHAdeMO



CHAdeMO is an exclusively DC-oriented connector and is only used only for fastcharging. It is mostly found on Japanese cars i.e. Nissan and Mitsubishi. Cars with CHAdeMO connectors will have a second socket for AC charging Fast AC

Used by older Renault Zoe vehicles, this

CCS charging on newer cars.

standard is increasingly being replaced by

EV (ELECTRIC VEHICLE)



A broad category that includes all vehicles that are fully powered by Electricity or an Electric

HOME CHARGING

Plugging your electric car in to charge while it is parked at home, typically overnight. A dedicated home charging point is the best and safest way of doing this.

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ICE'D EV charging space blocked by a petrol or diesel car.

KW (KILOWATT)

A unit of electrical power.

KWH (KILOWATT HOUR)

A unit of energy equivalent to the energy transferred

in one hour by one kilowatt of power. Electric car

battery size is measured in kilowatt-hours.

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combustion engine (petrol/diesel) and an electric motor with the ability to also plug-in to charge.

RANGE

RANGE ANXIETY Worry or stress that is caused due to the fear

that an electric car will run out of battery power

A charging point that delivers an AC charge at up

before the destination is reached.

SCP (STANDARD CHARGE POINT)

*ALSO CALLED AC CHARGER/STANDARD

The distance you can travel on pure electric

power before the battery requires a recharge.

SINGLE PHASE ELECTRICITY

power through a normal charge point. **SMART CHARGING** A broad term for the way an intelligent,

connected charge point can perform. This can

include things like energy monitoring, power

or managed charging, i.e. shifting the time or

power at which charging happens.

reduction in response to energy or price signals,

This type of electricity is found in most homes

through 1 live conductor. Most Electric Vehicles

charge from AC connectors in this way, and it

typically allows for either 3.7 kW or 7.4 kW of

and is characterised by the delivery of electricity

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This type of electricity is found in larger commercial premises and all ESB public charge points. It is characterised by the delivery of electricity through 3 live conductors at the same time and can deliver more power to a vehicle equipped for 3-phase charging. These include the Renault Zoe, all Tesla vehicles, the BMW i3

and a small number of other cars. These cars

can charge from 3-phase electricity at power

levels of 11kW to 22 kW, depending on the car's

Energy for generations

internal electronics.

For more information,

visit: esb.ie/ecars

DC (DIRECT CURRENT)

EV CONNECTOR TYPES: CCS Combo The CCS plug supports AC and DC

charging power. Cars such as VW, BMW,

FCP (FAST CHARGE POINT) A charge point that delivers a charge at a power

greater than 22kW.

ICE (INTERNAL COMBUSTION ENGINE)

A vehicle powered by a petrol or diesel engine.

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PHEV (PLUG-IN HYBRID ELECTRIC VEHICLE) A vehicle which is powered by both a traditional

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CHARGER

to 22kW.

SOCKET Receptacle on the chargers where you plug your connector in, located behind a flap or cover.

THREE PHASE ELECTRICITY