

Ev to ev charging

Bidirectional EV charging is exactly what it sounds like: EV charging that goes two ways. Whilst with unidirectional (one-way) EV chargers, electricity flows from the electric grid into the electric vehicle, with bidirectional (two-way) EV chargers, electricity can flow both ways.

V2G is the kind of bidirectional charging that allows you to make or save money on electricity. It refers to a type of charging capability that allows an EV to send electricity directly into the grid.

Owning an EV is already significantly cheaper than owning one of their fossil-fuel-guzzling rivals. Canadian academic, Ingrid Malmgren, estimates a total saving of around EUR5000 over the lifetime of a vehicle. With a bidirectional charger, instead of a unidirectional one, you can save even more if you live in a country where energy costs vary during the day. For instance, in some countries, like Spain, if you charge your vehicle during the night when electrical demand is low, you will pay less for electricity than during the day's peak hours.

Bidirectional EV charging can offer you the opportunity to become energy self-sufficient if you combine it with your own renewable energy power sources. Think about it: if you have solar panels on your roof that power your house during the day, any excess energy generated can be stored in your EV and used at night, or the next day at home, or when you're driving.

Some countries are introducing programs and incentives to help individuals to do precisely this. For example, the demand-side response (DSR) scheme in the UK gives homeowners smart meters and empowers them to generate their own energy via onsite renewables, like wind and solar photovoltaic. It also helps them to feed excess energy back to the network. With the help of such schemes and other EV and EV charging incentives, present across Europe, your home could very well become its own micro-power station soon!

Bidirectional technology (allowing electricity to flow into and out of EVs) has only just become advanced enough for more people to use it. As the tech gets better with time, so will its potentialities. As an EV owner, you only stand to gain by going for a bidirectional charger. From making extra income by selling energy back to the grid to becoming energy self-sufficient – going bidirectional comes with clear pay-offs.

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