

# How can we align the stars for V2G in Europe?

## Double taxation

In the words of the European Commission: "avoid double taxing energy stored, including in EV batteries"

## Black hole

The interests of incumbents, with their imploded — mostly fossil — energy, distort gravity and thus divert attention.

## (Not) lost in space

Without metering, we would be lost in space. This is often the case on local grids due to a lack of granular data. Metering allows us to accurately track the course. While the availability of residential smart meters is important, device-level measurements should also be used to ensure precise positioning.

## Guiding star full of energy

Perhaps revenues on energy markets are the guiding pole star on which we navigate. However, outdated tariff structures and restrictive market access conditions for consumer energy devices can obscure this for some people in some countries. Independent aggregators may face barriers when trying to help users (and grids) reach for the stars.



## Different planets

Differences between European Member States can be significant – in legislation, technology and culture. Yet these differences can sometimes be an advantage, as they offer a different perspective on the same subject.

## Connecting the dots

Interoperability and compatibility mean that everything can be linked to everything else as desired and required. While this is partly technological, it is also a matter of principle that must be firmly grounded in legislation.

Sometimes, the night sky is polluted and our focus is distracted by other technology.

## Thousands of local networks

There are a handful of car manufacturers and a handful of manufacturers of bidirectional chargers/ charging points. But in Europe, there are thousands of DSOs, some with their own connection conditions. European grid codes harmonisation will help to achieve economies of scale.

## Smart charging

Although unidirectional smart charging faces many of the same regulatory barriers, it can already be implemented on a large scale using current technology and with all electric vehicles on the road today. It could be a good target to reach this point, before going further into space. It's much closer.

## The human factor

How can we ensure that what we develop aligns with the wishes, concerns and needs of different human beings?