



WHO AM 1?





GREEN ENERGY FOR A BETTER WORLD

We safeguard the society's interests as we move to a 100% green energy system.

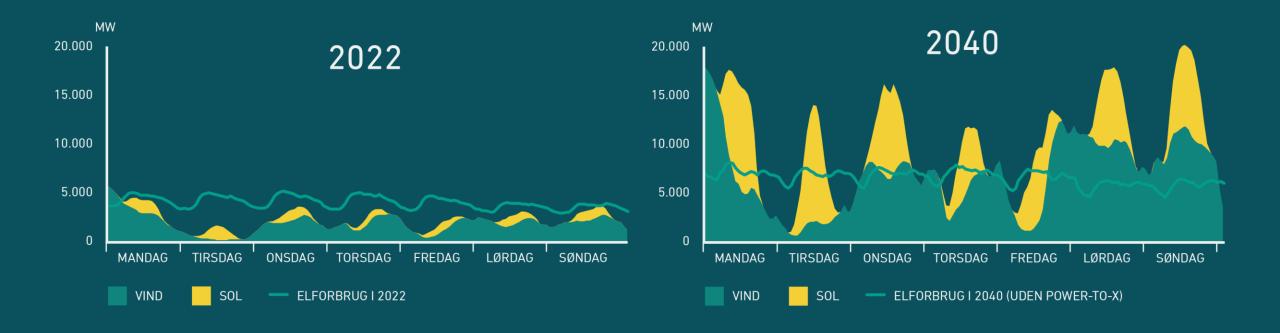
We are owned by the Danish Ministry of Climate, Energy and Utilities.

The Danish TSO with a workforce of around 2500 split between 7 locations.





PRODUCTION VS COMSUMPTION









MARKETS

Energinet participates in the development of energy markets and market rules in Denmark, the Nordic countries and the EU.



BEFORE 2010

TODAY 2025

TOMORROW

BEYOND

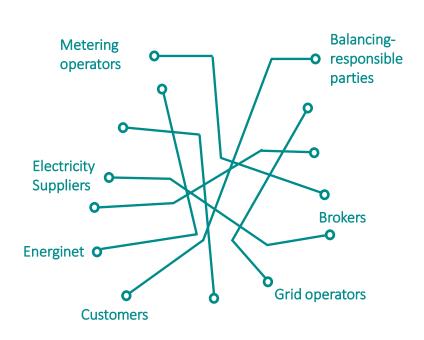


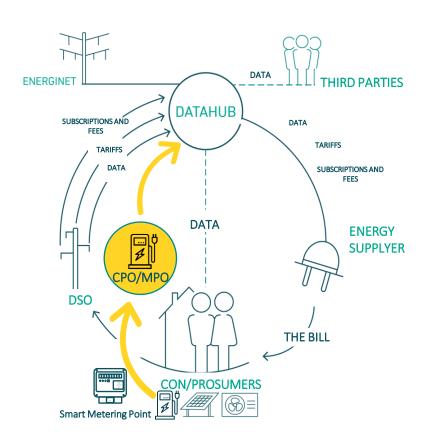
Marked communication

DataHub as is

Current add-ons: Imbedded metering

Identification, authorization, and delegation











METHODS WE USE AND OBSTACLES THAT WE (STILL) FACE!

It is essential to find appropriate solutions for a system design that fosters effective integration and collaboration between the mobility and energy sectors.

- ✓ Demonstrating the possibilities
- ✓ Preparing existing systematics
- **Establishing new alliances**
- Transforming through regulation

Coalition of the Willing on Bidirectional Charging from 2025 A cross-industry initiative

European countries coming together in this Pan-European initiative



- 150 Industry players covering the **whole value chain** in the e-mobility and energy ecosystem
 - Common goal: establishing a **level playing field** for bidirectional charging across Europe
 - Reports documenting the **results** of a year of intense work **now available**





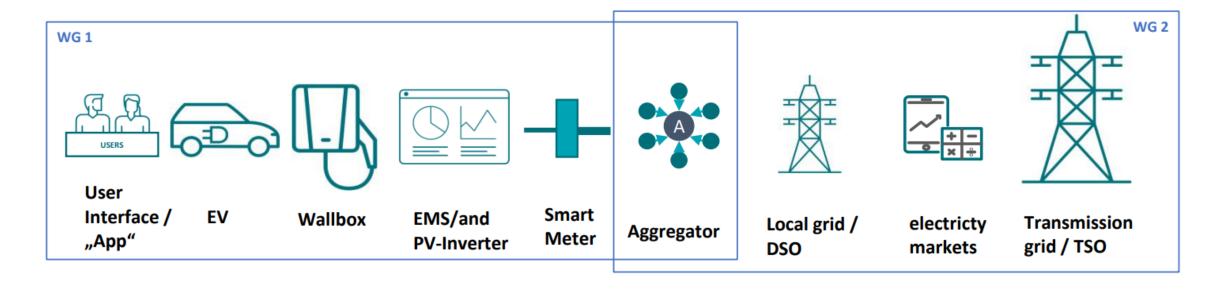


Why V2G for the consumer, the industry and the grid?

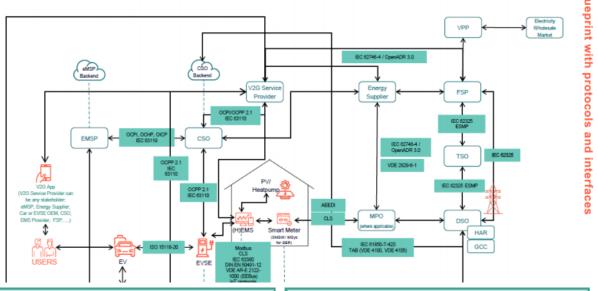
Main take aways?

- We need data sharing
- We need standards
- We need a level playing field

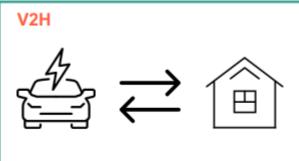


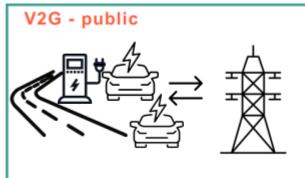


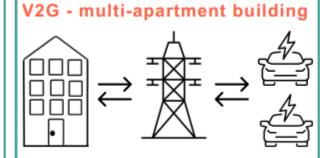
A blueprint for the V2X ecosystem

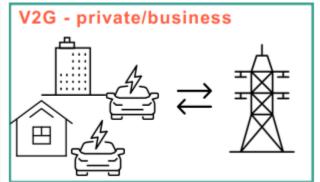


- Our process over 11 months:
 - German host, across-EU focus
 - One blueprint four use cases
 - V2H
 - V2G for private/business
 - V2G for public charging
 - V2G for multi-apartment buildings
 - Mapping
 - All stakeholders across the value chain
 - Data points needed for the target use cases
 - Interfaces and protocols required









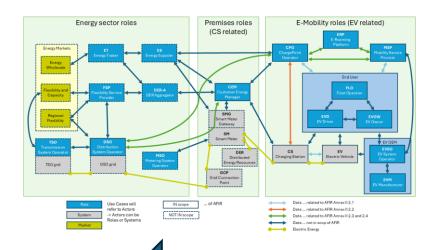
Energy Communities and V2G is

comming up.

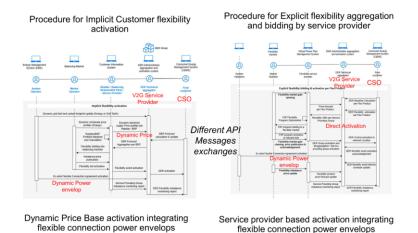


Working simultaneously...

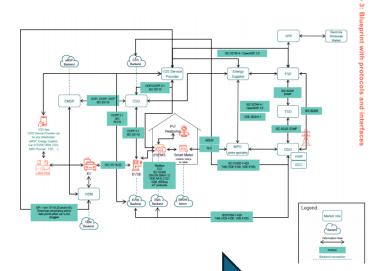
Sustainable Transport Forum sub-group on governance, standards and data (STF)



Data for Energy, sub-group on flexibility, smart and bidirectional charging (D4E)



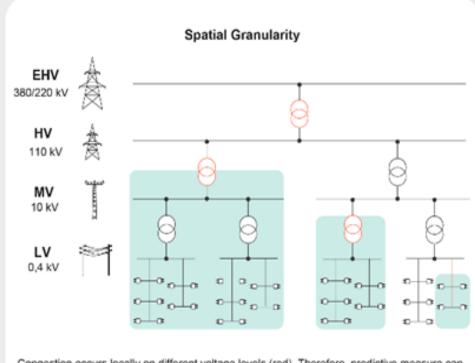
Coalition of the Willing on bidirectional charging (CoW)



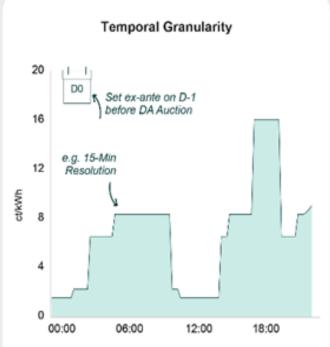


POWER FROM THE EDGE OF THE GRID

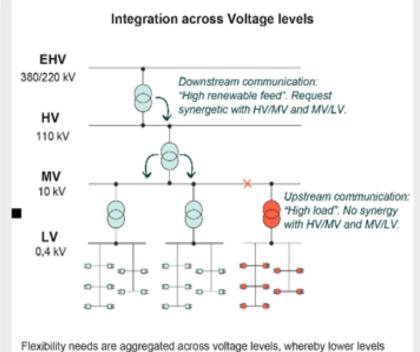
A coordination goal from the grid - OBS Draft from CoW 2025 report.



Congestion occurs locally on different voltage levels (red). Therefore, predictive measure can be implemented at different levels of spatial granularity (shaded green), such as high-to-medium voltage, medium-to-low voltage or on the level of individual feeders.



Congestion varies depending on the time of day. Therefore predictive measures have to match this dynamic in temporal resolution. Ideally, schemes are published on D-1.



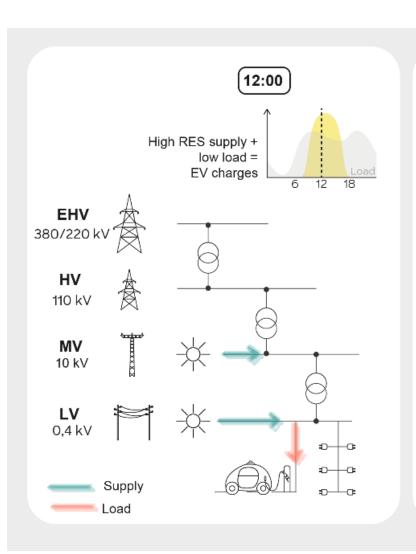
overrule requirmements of the respective upstream level. Only synergetic

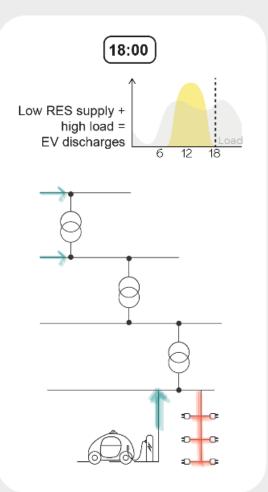
demand is clustered across voltage levels when calculating incentives.

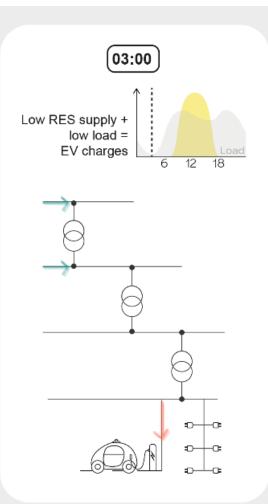


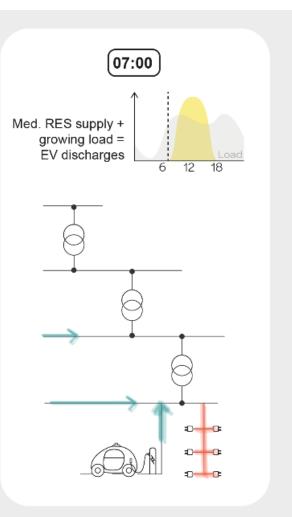
POWER FROM THE EDGE OF THE GRID

A coordination goal from the grid - OBS Draft from CoW 2025 report.









2025 – THE V2G YEAR!



This is the real kick-off for bidirectional charging in Germany.

Together with BMW Group, E.ON launched the first series #V2G pro: ... mere

Vis oversættelse



At IAA Mobility 2025, Elli proudly launched its first pilot project for bidirectional charging in private households - revealed during the Volkswagen Group Technology Day Tech Talk!

Your EV, your energy source:

Bidirectional charging means your electric vehicle can now power your ho enabling true energy independence. With the first phase of our Managed Network, EV batteries and storage systems become system-relevant energy bridging mobility and energy.

Pilot Highlights:

- Home-powered by EV: Seamlessly manage energy flows between grid and home via the Elli Charging app.
- Advanced tech: Featuring an 11kW DC charger by CUBOS, integrated modular software platform.
- Energy transition support: Future integration into Elli's Managed Batte to optimize renewable energy and enable energy trading across Europe.

Available to Volkswagen Group customers and Otovo solar system clients Germany. Participants receive a DC bidirectional charger and firsthand exp smart home charging by

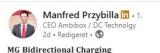
Apply now:

https://lnkd.in/egVZQUZY

#IAAMobility2025 #TechDriver #BidirectionalCharging #SmartEnergy #VolkswagenGroup #Elli

Vis oversættelse





Sales start this Friday

For anyone who wants to use their MG and Maxus vehicles bidirectionally, we now offer the BiDi feature together with our wallbox.

We are currently using the vehicles in several pilot projects. Anyone who wants to use their car as a power bank can order our Bidi wallbox from our website starting Friday.

Our wallbox has also been approved by the manufacturer for Volkswagen's MEB vehicles under the Skoda, Seat, VW, and Buzz brands, as well as Ford. The grid codes are compliant throughout Europe, with the UK starting in January 2026.

The retail price starts at €2,995 for end customers in 2026, plus countryspecific sales tax, minus tax breaks and subsidies.

#ambibox #BiDi #V2H #V2G #V2B

Vis oversættelse

€€0 Du og 160 til







ENERGINET



In this fantastic video Imogen Bhogal explains very clear what is happening in Utrecht, why it happens in Utrecht and why not yet all over ... mere

Vis oversættelse



Imogen travels to the beautiful city of Utrecht. Known as the world's first bidirectional city, they have just launched the largest vehicle-to-grid car sharing system in the world...with Renault 5's!!

https://buff.ly/nWaVYZz

√is oversættelse

