

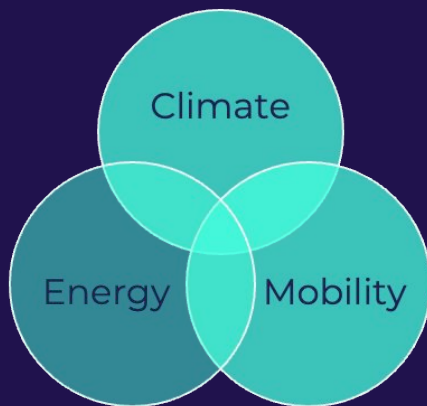
FLATTENING THE PEAKS

Peeter Meos,
Gridio CTO





Gridio operates at the centre of the climate, energy and mobility ecosystems. Gridio helps the 🌍 planet, ⚡ the grid and 🚗 electric vehicle owners, by making electric cars charge when it makes most sense.



WHO

A team of 13 energy and technology enthusiasts in Tallinn, Estonia

WHAT

Software platform to connect and optimise electric vehicles and distributed energy devices.

TRACTION

More than 6,000 active EV smart chargers from 22 countries and two large B2B customers.

BUT WHY?

Scale of the influx of EVs

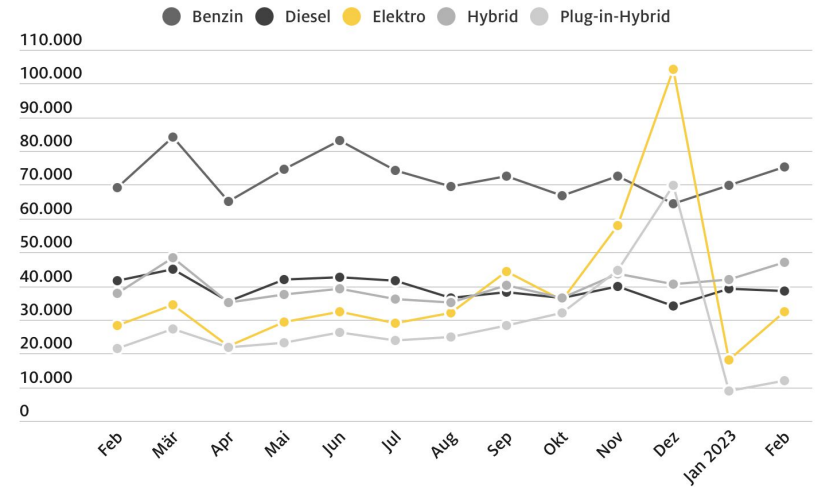
2022 1M EV on the road in DE

15% vehicles sold in DE are EVs

EU target of no new ICE cars

84M in EU by 2030

Pkw-Neuzulassungen nach Antriebsarten in den letzten 12 Monaten



Quelle: Kraftfahrt-Bundesamt

© ADAC e.V. 03.2023

Source: ENTSO-E, ADAC

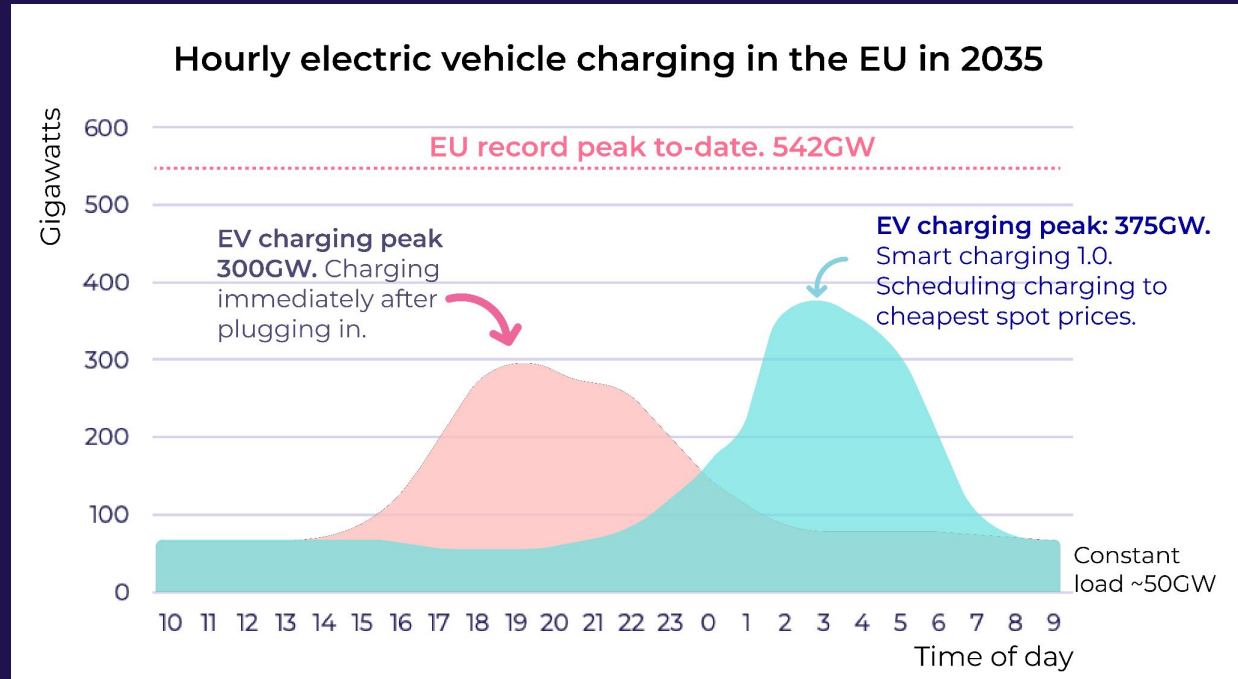
SO WHAT?

Significant increased in demand

We need either more:

- renewables
- nuclear
- fossil fuels

..or consume smarter

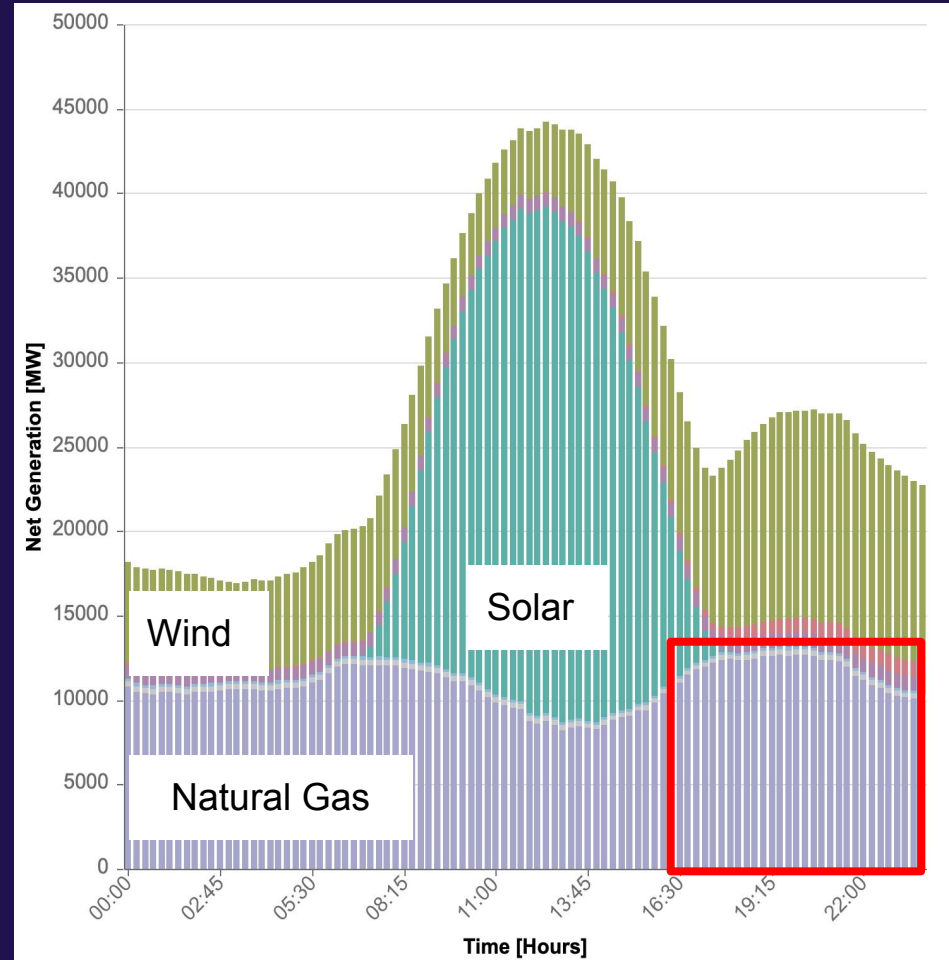


FUEL MIX MARCH 2023

Let's look at Germany

Roughly 4GW supply response
from gas

EVs are getting charged during
“dark” hours



AGAIN, SO WHAT?

Quick insight into effect to the environment.

A day in Germany in mid-2023:

1.2M EV in 2023 ~ 3.7GW of evening peak capacity

3.7GW x 3h ~ 11 GWh charged

During evening hours this is 11 GWh x 450 t/GWh ~ 5000t CO₂

Every day

One tree absorbs ~ 1t CO₂ over its **lifetime**

THIS IS MANY TREES, WE NEED TO MAKE THIS BETTER

EVERYBODY MUST DO DEMAND RESPONSE

Version 1.0

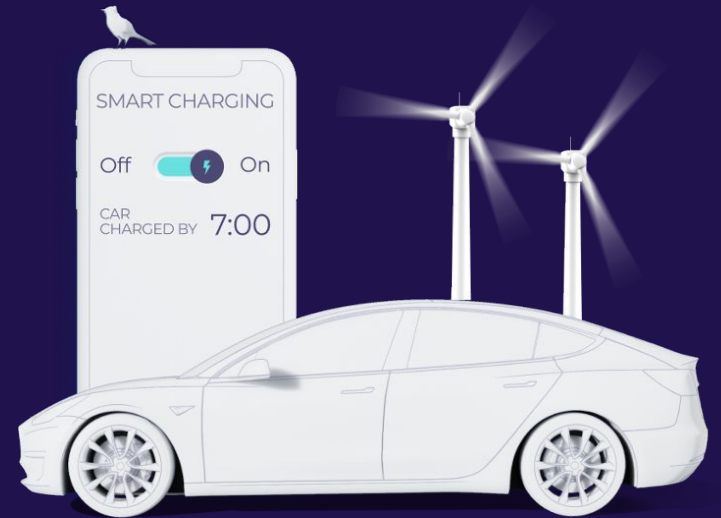
- Shift consumption do late night/early morning hours, flatten the demand curve

Version 2.0

- Add energy storage to take full advantage of daytime solar

SOUNDS INTERESTING? LET'S TALK AFTERWARDS

Gridio: making electric vehicles charge when it makes sense.



DEMAND FLEX MATTERS

Thanks

 peeter@gridio.io

 @peetermeos
@GridioApp