

HECTOR Project - BRUSSELS

‘Hydrogen waste collection vehicles in North West Europe’



Informations

- ▶ Truck: Bluepower Faun 27 Tons
- ▶ Waste Collection truck: Variopress
- ▶ Engine power: 292 KW
- ▶ Hydrogen Tanks : 4 * 4.2 Kg - 700Bar
- ▶ 1 Fuel cell: 30KW
- ▶ Battery (3 pack): 125 KW 650V
- ▶ Payload of Truck: 10880 kgs
- ▶ Current mileage: 6071 kms

Operational Experiences

Positives:

- ▶ Low noises while charging and driving
- ▶ Driving the truck is very comfortable
- ▶ 3 modus to drive the truck (Electrical - Economic - Dynamic)
- ▶ The truck has high torque when fully loaded
- ▶ When the H2 circuit is broken you can still drive on electrical mode

Issues:

- ▶ Reliability is low
- ▶ Still too few refueling stations to fill up the trucks with H2

Barriers:

- ▶ Autonomy is still low and not enough fulling station.

Comms

- Interview by Transport Media where our truck is clearly visible .30 april 2023. Unfortunately, the minister preferred to present our fully electric truck rather than the hydrogen truck. He's from the green party and doesn't really believe in hydrogen technology. The efficiency isn't good enough and hydrogen isn't always green. [Video](#)
- In our agency's local magazine Zoom on February 2021

Lessons Learn & Project Conclusions

- It was the first time the agency participated in a European Project because of this we gained a lot of experience
- That it is difficult to bring a new technology to the market and to follow-up.
- A different experience with an alternative fuel propulsion
- We have an global overview of the advantages and disadvantages of the future fleet that will run on alternative energy
- Politicians are still not doing enough to adjust the full conjuncture and provide the necessity subsidies to start this new technology.

The Future for your HECTOR Truck

- Because it is a prototype, there are still many technical issues that we will face in the near future.
- We should be able to provide training for our own people to work on the vehicle as soon as possible.
- Because there are not enough filling station, the area where the truck can operate at full power is limited, so we must hope in the future there is more investment in filling stations.

