

HECTOR Project

‘Hydrogen waste collection vehicles in North West Europe’

Project Conclusions

- *What did HECTOR achieve*
- *What special skills or resources were brought to successfully complete the project?*

- Implementation of an international network with the focus on operational challenges of fuel cell trucks regarding the different circumstances
- Definition of the “right product for the right application” e.g. preoperational specification, technical requirements...
- If necessary, existence of working regional after sales → service partner
- Employees who are open minded in the implementation of new technologies

Operational Experiences

Positives, Issues, barriers

Positives

- Proof of concept was already existing in 2019
- Necessary supply chain implemented
- Service structure / points already implemented
- Contractor / supplier approved

Issues / barriers

- assumed delivery dates → delay
- Pricing (assumed price vs. tender price)
- Product testing is happening “on the road”
- No longterm experiences

Lessons Learned

Commercial

- Capital expenditures with buffer
- Extended delivery time for new technologies

Technical

- Awareness that the testing happens on the road
- Technical teething troubles
- Availability of spare parts
- Availability of experienced technicians

Collaboration with Partners and Emerged Relationships

How was collaboration with other partners in the project and what relationships have emerged beyond the project?

- Trustful collaboration and cooperation
- interesting exchange of experiences during the project
- With focus on German partners, an intensive exchange also on additional topics has developed

Comms

- *Any events to publicise the trucks (launches / outreach to general public)?*
- *Any complementary activities carried out during the project?*
- ▶ <https://wb-duisburg.de/unternehmen/Nachhaltigkeit/wasserstoff-entsorgungsfahrzeuge.php#:~:text=Die%20Wirtschaftsbetriebe%20Duisburg%20setzen%20k%C3%BCnftig,und%20lokal%20CO2%2Dfreier%20Sammelverkehre.>
- ▶ <https://www.duisburg.de/microsites/smartcityduisburg/news/wbd-wasserstoff.php>
- ▶ <https://www.waz.de/staedte/duisburg/co2-neutrale-muellabfuhr-so-will-duisburg-das-schaffen-id236773395.html>
- ▶ <https://www.waz.de/staedte/duisburg/premiere-duisburger-muellabfuhr-faehrt-mit-brennstoffzelle-id231060076.html>
- ▶ <https://www.faan.com/aktuelles/lets-go-bluepower-2-2-2-3/>
- ▶ <https://www.youtube.com/watch?v=ZTadrof8vI0>
- ▶ https://www.lokalkompass.de/duisburg/c-wirtschaft/vorreiter-fuer-emissionsfreie-abfalllogistik_a1534742

The Future for your HECTOR Truck

- *What is your main focus over the next few months / years?*
- *Given your experience would you consider purchasing other h2 trucks?*

- Transformation / electrification of the existing fleet
- Further purchases depend on public funding's
- Intensification of subject specific technical trainings e.g. high-voltage technicians
- Until 12.2023 additional six trucks in operation

