

# HECTOR

‘Hydrogen waste collection vehicles in North West Europe’



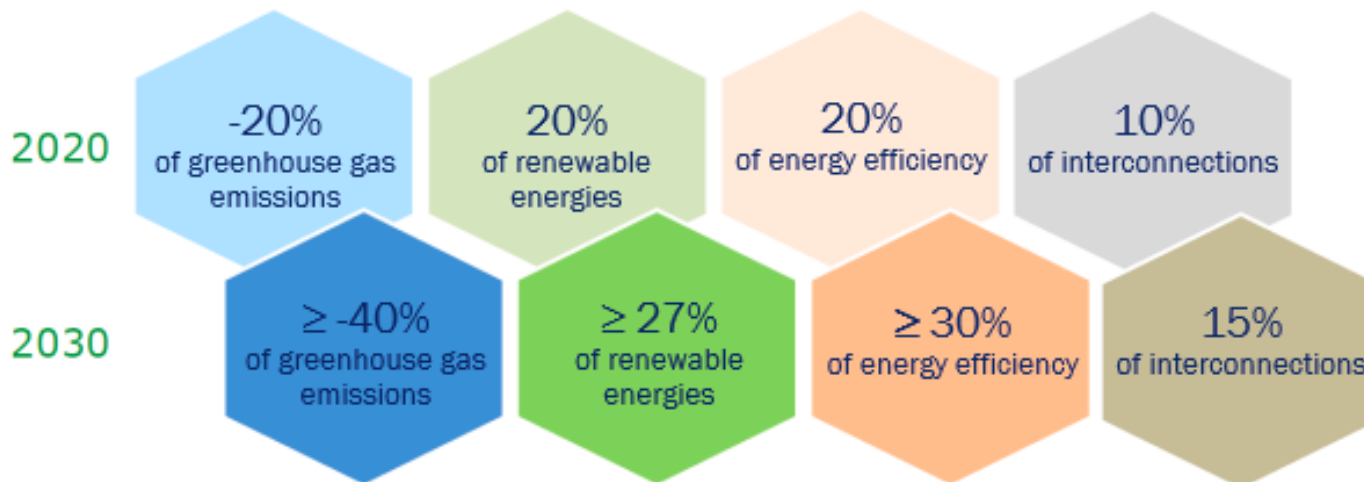
- The HECTOR project is co-funded by the Interreg North West Europe programme.



### **INTERREG NWE's Low Carbon priority:**

*supports the shift towards a low carbon economy in all sectors, promote sustainable transport and remove bottlenecks in key network infrastructure.*

#### LOW CARBON



# OVERVIEW

Deploy 7 different types of fuel cell waste trucks in 7 different cities in 5 countries:

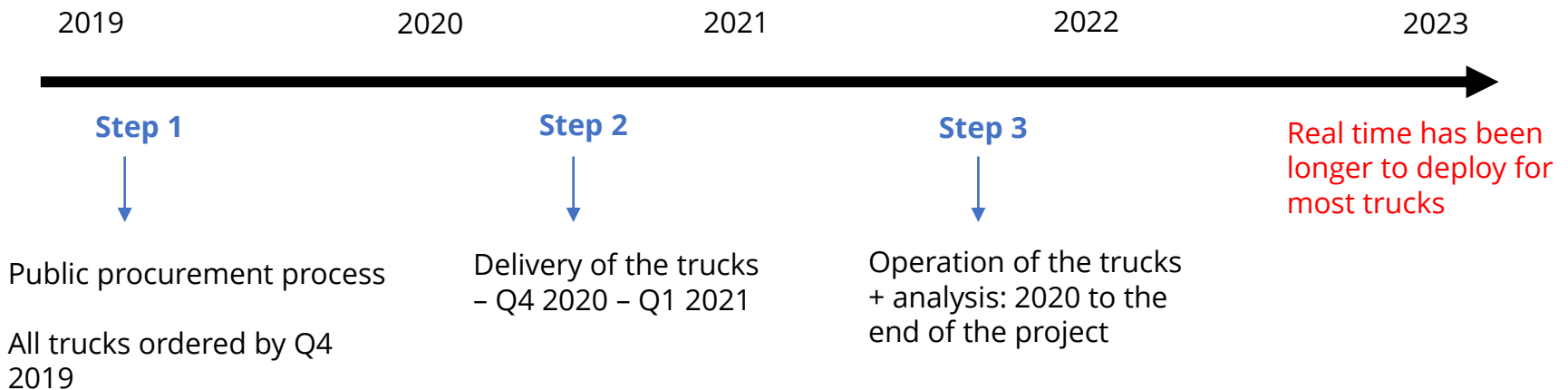
- **Aberdeen (UK)**
- **Groningen (NL)**
- **Arnhem (NL)**
- **Duisburg (DE)**
- **Herten (DE)**
- **Brussels (BE)**
- **Touraine (FR)**



# OVERVIEW

**Aim:** to demonstrate that fuel cell waste trucks/refuse collection vehicles provide an effective solution to reduce emissions from road transport in the North West Europe area.

**Total Budget:** €9.28m of which the ERDF Contribution is €5.57m







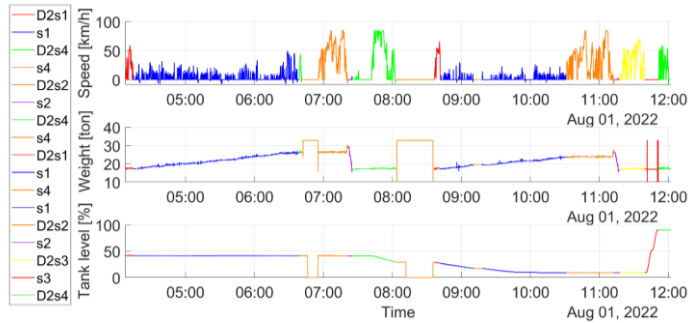
Hydrogen truck performing its mission very quietly so as not to disturb nearby residents

<b>Pilot Site</b>	<b>Operator</b>	<b>Backloader</b>	<b>Waste Collected</b>
Aberdeen	Aberdeen City Council	Back loader, right hand drive	Municipal waste
Groningen	Municipality of Groningen	Container truck	Paper waste
Arnhem	Prezero	Compression truck	Municipal waste
Duisburg	Municipality of Duisburg	Compression truck	Municipal waste
Herten	Abfallentsorgungs-Gesellschaft Ruhrgebiet mbH	Frontloader	Industrial waste from private customers
Brussels	ARP-GAN	Container truck	Municipal waste
Touraine Vallee de l'Indre	Touraine Vallee de l'Indre (group of municipalities)	Backloader	Municipal waste – rural area



### Pre-operation preparations for the deployment of hydrogen fuel cell waste trucks

Practical handbook to prepare for the deployment of hydrogen fuel cell waste trucks.



- Data analysis of the trucks
- Operational Handbook:  
*How to Specify, Procure,  
and Deploy Hydrogen Fuel  
Cell Waste Trucks*



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# THE FUTURE

- Hydrogen RCVs can provide a zero-emission option for the industry
- Current financial pressures and market availability makes the business case challenging
- We are still in the R&D phase

# Next Steps

- Interreg programme closes: November 2023
- Dissemination of project learnings: late 2023 / early 2024
  - *Data Analysis Report*
  - *Operational Handbook incl Early Market Engagement Procurement Template & Vehicle Trial Planning Checklist*



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