



# Possibilities for hydrogen buses in Flanders

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# Vision on clean public transport

- De Lijn: public transport operator (government)
- 2288 buses (De Lijn) + 1464 (contractors)
- Making buses cleaner (NOx, particles, noise,...):
  - Euro 5, 1000 particle filters, 250 catalyst (urea),.....
  - test program hybrid fuel cell bus
  - 79 diesel-electric buses
  - next: introduction hybrid fuel cell buses ?



# Strong points Flanders



- Positive test program hybrid fuel cell bus at De Lijn



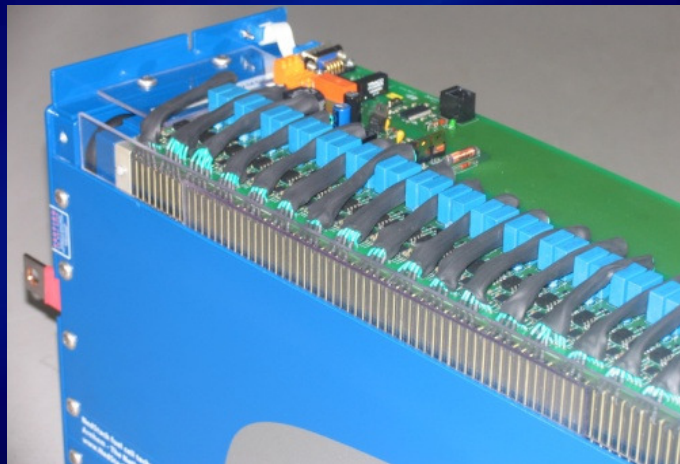
- Experience with permitting public hydrogen fuel station



# Strong points Flanders



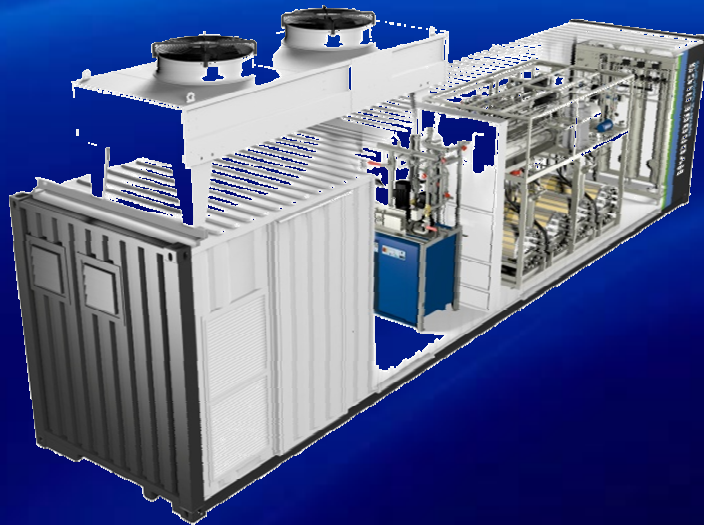
- > 800 km hydrogen pipeline network, underground, centered in Flanders



- Construction of 1 MW fuel cell test facility on byproduct hydrogen at port of Antwerp



# Strong points Flanders



- Construction of hydrogen fuel station on green electricity



# Opportunities

- Avoid emissions (NO<sub>x</sub>, particles) and noise in
  - cities public transport
  - clean hydrogen
- Port Antwerp transport of employees
- byproduct hydrogen



# Opportunities

- Working on:
  - Vision paper on introduction of hydrogen fuelled buses in public transport
  - Possibilities of innovative procurement
  - Participation in JTI\_proposal (10/10)
  - Analyzing possibilities EIB
  - Cooperation with other European regions



# Looking for active participation

[www.waterstofnet.eu](http://www.waterstofnet.eu)

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