



Workshop HyLaw

Colruyt: non-public and public fueling station

Agenda

- Infrastructure
- Quality
- Other

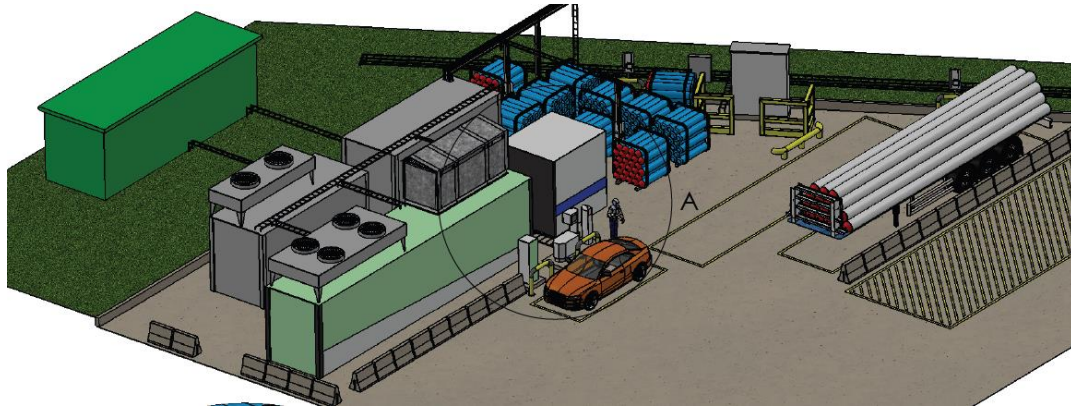




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Infrastructure

2 installations in Halle (Flanders)



2 installations in Halle (Flanders)

- Building permits
 - No big issues: located on own DC
- Environmental permit
 - No sectoral conditions for hydrogen refueling stations
 - → Reference to executed safety study
 - Safety study is done months before execution
 - Difficult to change during execution of project
 - Results depending of safety study company
- Safety study
 - time and expensive
 - Combines different rules (Vlarem / PGS35 / CNG-rules / ...) and own risk analyzes



Future installations

- Timing (opening station 2 years after buying property)
 - Finding good location (good= enough space, not too expensive, ...)
 - Internal approval Prepare bu
 - ilding application file
 - Contacts with owners / governments / get advices / ...
 - Lead time permissions
 - Appeal period permissions
 - After permissions, getting deed of sale
 - Execution works
- Building permits
 - No extra problems expected



Future installations

- Environmental permit
 - Flanders (e.g.. Halle)
 - Law: Vlarem, no specifications about Hydrogen → follow safety study
 - Approval by province (which can ask more information, ...)
 - Wallonia:
 - Law: Something like Vlarem. Preparing hydrogen part (based a.o. our safety study)
 - Approval by 4 regions (DPA's): demand of much information (especially for residential areas) → time! (e.g. CNG Liège)
 - support by Walloon government





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Quality

Hydrogen quality

- Lots of norms (pure numbers / risk analysis / impact impurities / quality treatment / ...)
 - Give the hydrogen provider one, clear guideline (e.g.. Per type of production: can this substance be in the flow? How can you prevent it? How can you control it? Reversible or not (+ explanation)? Guidelines for sampling? ...)
- Unreachable and uncontrollable obligations
 - Below detection limits
 - Should be continuous (otherwise it is always too late)
- No laws, no official checks by government
- End user cannot prove (or very difficult) which is the source of a “deadly” contamination (<-> petrol car)





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Other

Other

- Zoning station (incl. other fuels)
 - depends on who is making the study + need for adjustment
 - → need for standards
- Calibration MFM for public stations
 - No approved procedures for hydrogen (to be provided by government)
 - Difficult contacts
- ...

