

BAT-STUDY ON HYDROGEN REFUELLING STATIONS

Brussels, 23/10/2018 – Kristof Custers & Philip Marynissen

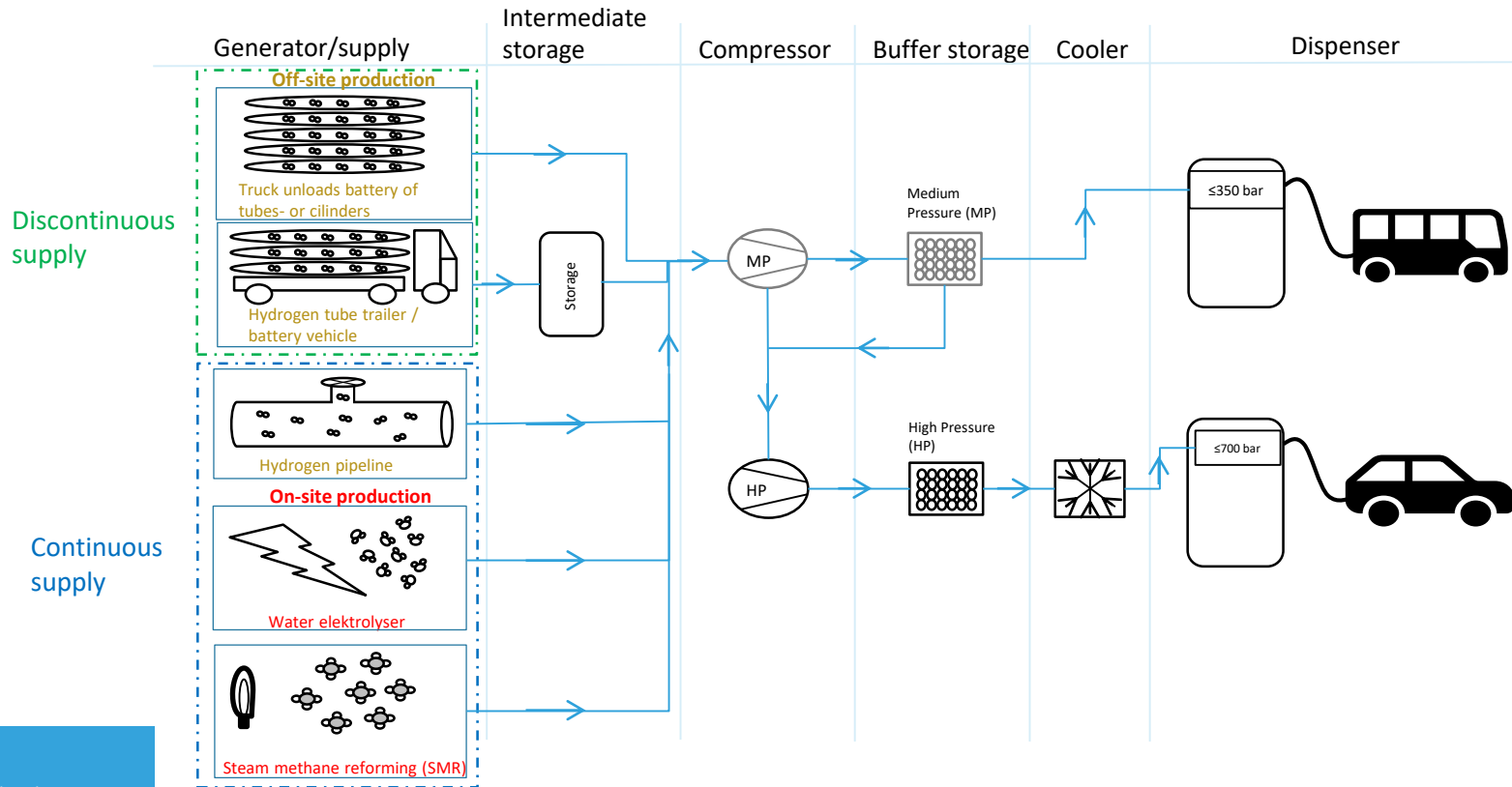


1. What is a BAT study?
2. Scope
3. Structure and content
4. Importance of safety distances

WHAT IS A BAT STUDY?

- BAT = Best Available Techniques
- Study is commissioned and financed by the Flemish government
- Goal is to arrive at a standardized conditions framework (e.g. safety distances) for licensing in Flanders (VLAREM)
- Contains critical points for licensing (not a construction manual)
- Advisory board consisting of sector representatives (Waterstofnet, De Lijn, Colruyt Group/Dats24, Air Liquide, Pit Point) and government representatives (Environmental dept)
- Timeline: Final draft in the 2nd half of 2019

SCOPE OF THE STUDY



STRUCTURE & CONTENT

Divided into 7 sections:

- 1) Introduction
- 2) Sector study: socio-economical analysis & legal environmental guidelines
- 3) Processes and (external) safety and environmental aspects
- 4) List of best available technique candidates (Technical, environment & safety, and economical aspects)
- 5) Selection of BATs: Which techniques are the best available for companies in the sector?
- 6) Recommendations:
Environmental permits: What are the associated environmental conditions?
Ecological subsidies: Which techniques deserve financial support?
- 7) Emerging techniques & recommendations for further research

IMPORTANCE OF SAFETY DISTANCES (INTERNAL & EXTERNAL)

WHAT?

- **Internally:** between installation components
→ to avoid domino-effects
- **Externally:** to people & infrastructure in the environment of the installations
→ to minimize the risk on injuries/material damage after an incident

WHY in the Flemish BAT-study?

- Policy on safety (studies) for (non-)SEVESO-installations differs from region to region / from country to country
- Flanders: QRA-based with specific guidelines on failure data of the installations' individual components
→ = challenge for upcoming technologies

HOW?

- Expert study for internal & self-evaluation tool for external distances

QUESTIONS?

Thank you for your attention!

More info?

Via <https://emis.vito.be/nl/bbt-studie-voor-waterstoftankstations>

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