THyGA WP4

Hints for discussion - Electrolux

General items

Gas appliances fall under EU regulation 426/2016 for safety and EU 65/66 2014 for Ecodesign and Energy Label.

- Product certification is not possible without modifications also in the legislation for gas appliances.
- Electrolux will see impact on Domestic and Professional Cooking, Catering, Barbeques, Water Heaters, Gas Dryers:
  - Define and evaluate the meaning and content of “H2Ready” and “H2NG compatible” product ranges to achieve tangible CO2 emission reductions within product usage (usage is 80-90% GWP of gas products)
  - How will the use of H2 impact the sustainability or the LCA of the products?
  - Different scenarios in relation to how appliances would need to be adapted or retrofitted:
    - simple factory pre-setting
    - on-site adjustment
    - H2 Ready with conversion kit, part replacement
    - specific design

Technical items

- Hydrogen blends:
  - how much? 2%, 5%, 10%, 20%, …
  - Could different national approaches be a barrier with hydrogen blends % variations country by country?
  - Percentage variability over time or compatibility with NG100%? Limit gas must include this variability
  - Are all H2 the same (CH4 reforming vs hydrolisys)?
- Appliances already on the market: which strategy for them?
  - Support sells for (x%) Hydrogen ready appliances in order to prepare transition (labeling?)
  - Retrofit kit? Is it to be defined a backwards time limit with incentives?
- CEN TC 49: showed interest in WP8 (end uses) for the pre-normative requirements «PNR H2NG/H2 IN NG SYSTEMS» lead by CEN TC 234; no specific activity running so far

Other items

- The need for Certification, Homologation or backward compatibility could drive the business model for adaptation: uncertaintanty about H2 introduction and impacts could lead consumer towards electric appliances

- Supplier competence and component readiness?

  - Alignment with potential impacts and development schedules
  - Component readiness for H2NG vs Town Gas?

- Testing activities to be updated:

  - unburnt H2 → any limit?
  - unburnt HCN → any limit?
  - NOx → any limit?
  - Gas leakage tests: criteria for limit flow Rates and test pressure; test with air comparison
  - Shall test instruments and requirements be adapted to H2 flows?