Chemical Energy Converters (A2)

2014-2016
- diagnostic methods for alternative fuel (e.g. CH₄, H₂) converters

2017-2020
- material & characterization
- cell development & lab demonstrator (100 W)
- prototyping & test rig operation
- new optical engine facility
- power-to-X feasibility study
- integration of new key engine technologies (e.g. CNG, dual fuel IC)
- thermo-neutral short-stack demonstrator (>1 kW)

2021-2035
- cost efficient fuel cell systems
  - participating groups: F. Büchi & P. Boillat, PSI
  - participating groups: J. Schumacher, ZHAW
- PtG-hybrid electric passenger car demonstrator
- renewable fuel operated internal combustion engine
  - participating groups: C. Bach, Empa
  - participating groups: K. Boulouchos, ETHZ
  - participating groups: K. Herrmann, FHNW
  - participating groups: C. Onder, ETHZ

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