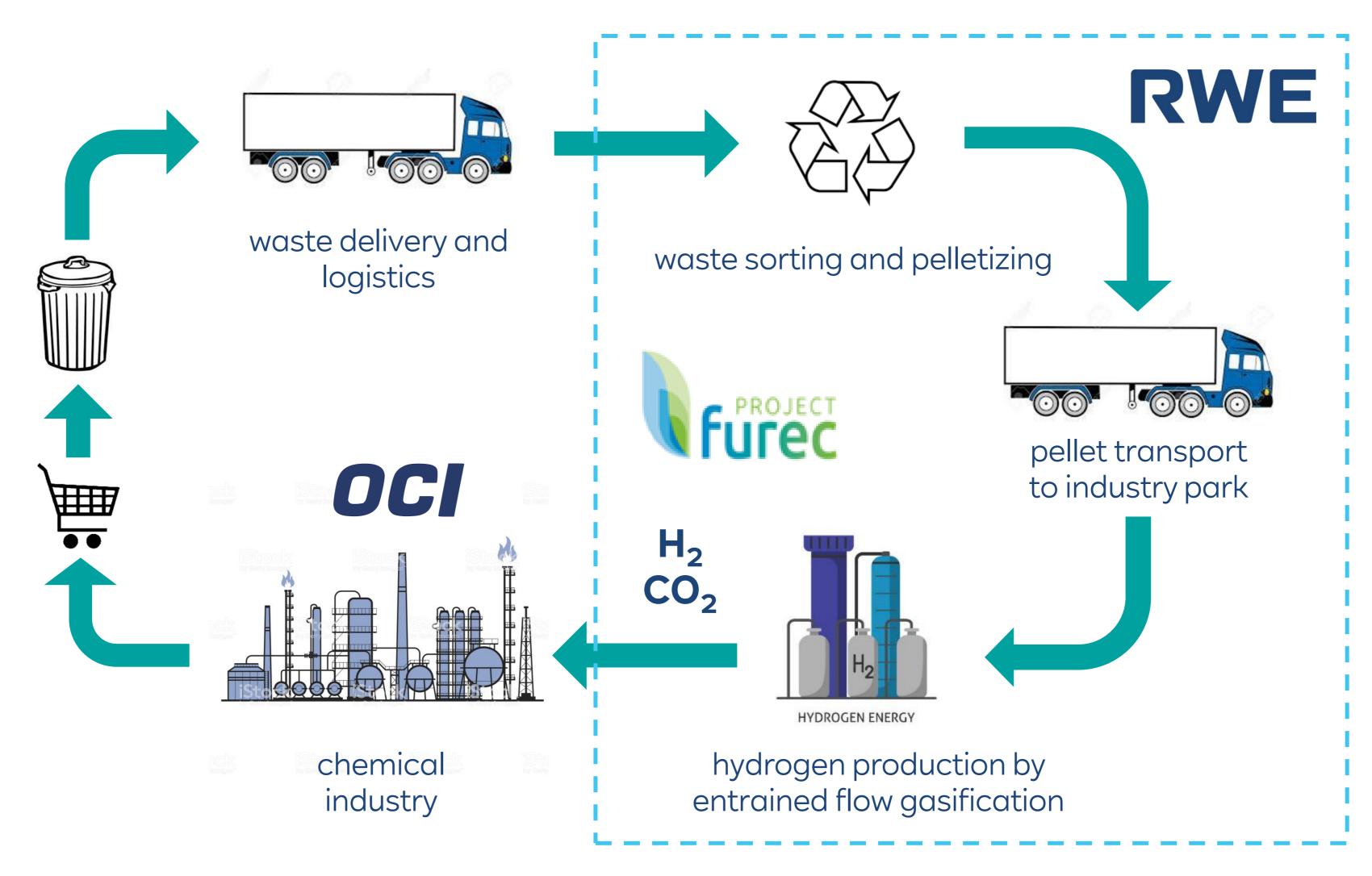
Innovation path

Multiple-Hearth-Furnace (MHF)

- Project FUREC: H₂-Production from waste at industry park Chemelot at Geleen, NL
- Demonstration of torrefaction as thermal waste treatment at Niederaußem



- Target: to produce powdered fuel from waste
- Using torrefaction (low temperature pyrolysis) waste pellets are "roasted" under absence of oxygen at about 250-300 °C
- MHF-plant Niederaußem, designed and produced as multiple hearth furnace:
 - Target product "coke" (embrittled and grindable to fine powder) and
 - flue gas, discharged via unit K of the power plant
- The coke serves as feed for the entrained flow gasification
- Research & Development of RWE Power supports FUREC of RWE Generation:
 - Commissioning and operation of the MHF-plant at Niederaußem
 - Gasification experiments on atmospheric MFC-plant of RWE and pressurized entrained flow reactor of project partners
 - Engineering of sour gas treatment for a commercial unit

