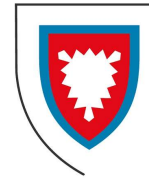




Niedersachsen



Landkreis
Schaumburg

District Schaumburg Hydrogen Region

Martin Wilkening

28.02.2024

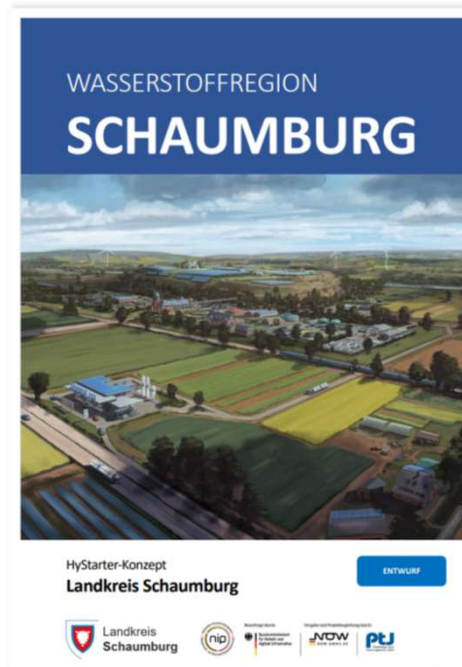
**ENERGIEAGENTUR
SCHAUMBURG**



History of hydrogen campaign in Schaumburg



- ▶ 2019: „HyStarter“ funding approval
- ▶ 2020 Founding local hydrogen-network and creating concept for Schaumburg
- ▶ 2021 Founding „energy agency Schaumburg“ incl. hydrogen management



Network connections

- ▶ NOW GmbH (organisation of federal ministry of transport)
- ▶ Lowey Saxony hydrogen network
- ▶ Founding member of hydrogen network Leine-Weser



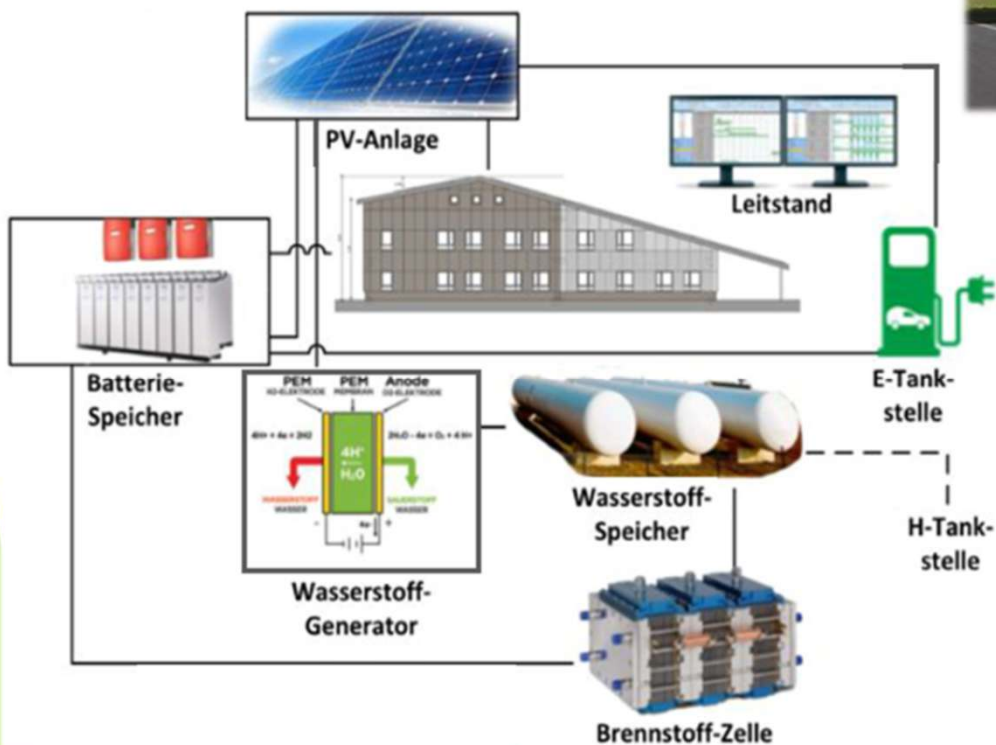
Public relations

- ▶ Presentations (political parties, discussions, community college etc.)
- ▶ Focus on hydrogen on local fair „Regionalschau ´23“ in Schaumburg



Current projects - „Endless-Energy-Center“

- ▶ Fully energy self-sufficient office building based on hydrogen
- ▶ „Taking summer into winter“



- ▶ Main components: PV-System, battery storage, electrolysis, pressure storage (350 bar), fuel cell, hot water storage, EV charging station
- ▶ Construction started in August '23

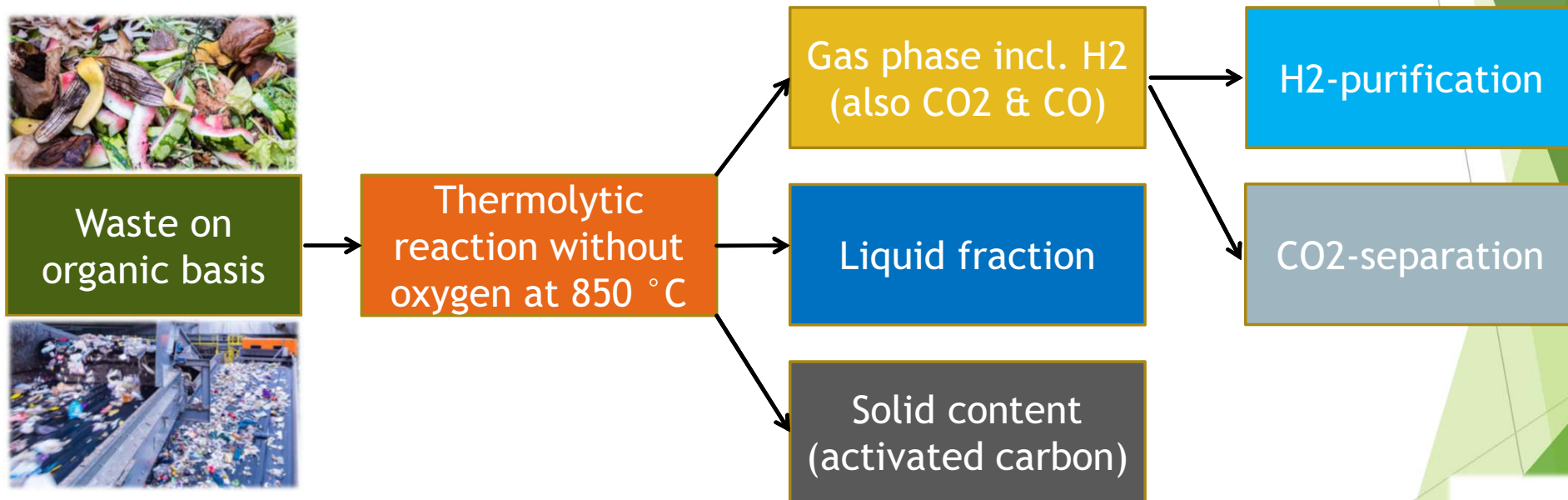
Current projects - „Endless-Energy-Center“



Source: EEZ Schaumburg - Livecam 26.02.24

Current projects - Thermolytic waste processing

- ▶ Utilization of organic waste through thermolytic processing
- ▶ Focus on plastic (no recycling possible) & biological waste



- ▶ Pilot plant planned by VAWT Engineering
- ▶ Funding recommendation at hand, approval from Berlin pending (BMWK)

Industrial hydrogen use cases in Schaumburg

- ▶ Bottle glass production by Ardagh Group in Obernkirchen
- ▶ Next Gen furnace with electrical heating up to 80 %
- ▶ Hydrogen needed for complete decarbonization



Quelle: ardaghgroup / press pack

- ▶ Another bottle glass production in Rinteln
- ▶ Further high temperature use cases for asphalt mixing and metal processing plant
- ▶ Market survey for future hydrogen demand ongoing for potential grid connection



Thanks!



contact

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