



International Partnership
for Hydrogen and Fuel Cells
in the Economy

Austria Update

40th IPHE Steering Committee Meeting

4 – 5 October 2023

Washington DC, United States

- Introduction of CO₂ – taxation by 10/01/2022
- 30€/t CO₂ in 2022 to 55€/t CO₂ in 2025
- Affects fossil fuel importing or producing companies
- Aims to accomplish true cost transparency for fossil energy sources and therefore benefits renewable alternatives as hydrogen

Demonstration facilities – Underground Sun Storage 2030



Austria

- Seasonal geological hydrogen storage
- Former natural gas reservoirs
- 100% hydrogen under real-life conditions
- Storage capacity 4,2 GWh
- Project lead: RAG Austria AG
 - Coordinator:
Stefan Bauer stephan.bauer@rag-austria.at



Source: https://www.uss-2030.at/fileadmin/_processed_/1/0/csm_Rubensdorf_05_53cbf67c80.jpg (21.09.2023)

Demonstration facilities – Hydrogen Gas Turbines



Austria

- Pilot operation for hydrogen driven gas turbines
- 15% hydrogen share for commercially CHP gas turbine (350MW Heat, 395 MW Power)
- Potential savings of 33.000t of CO₂ emissions annually
- Project lead: Wien Energie GmbH
- Partners: Verbund AG, Siemens Energy and RheinEnergie



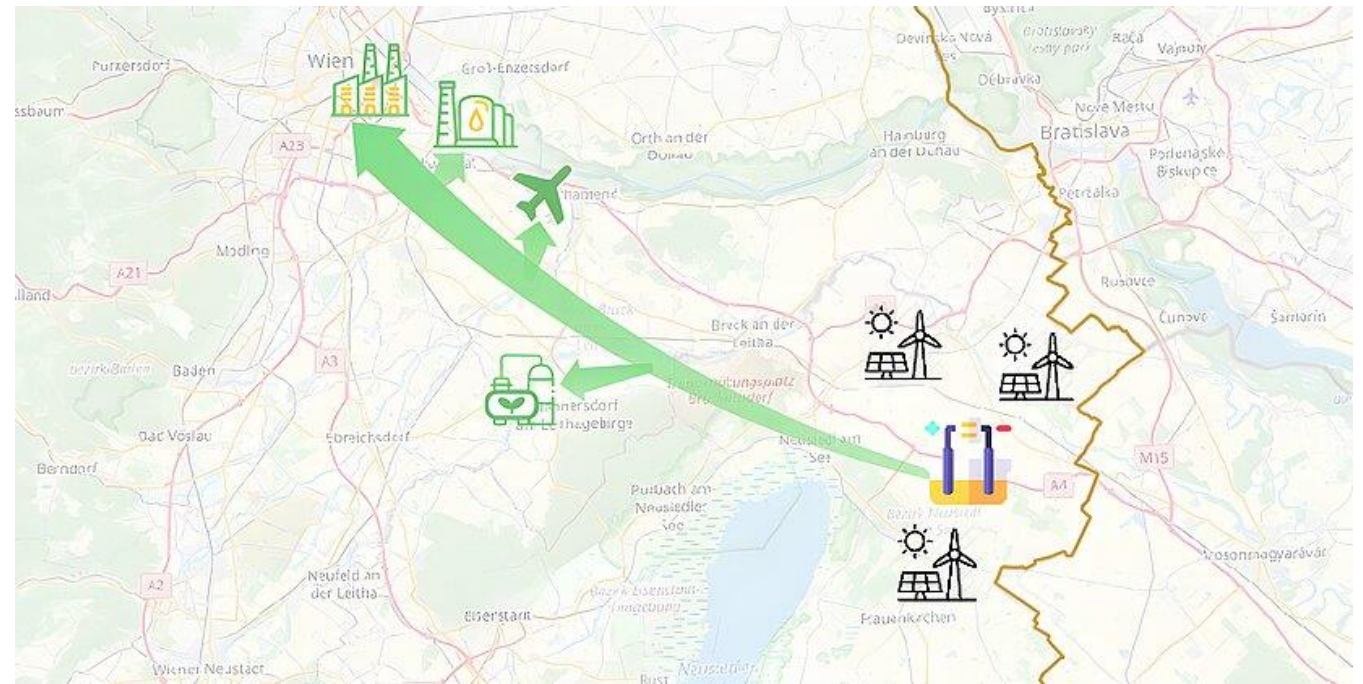
Source: <https://assets.siemens-energy.com/siemens/assets/api/uuid:5598dc03-4905-4577-92fd-eb48150fbc66/width:1266/quality:high/siemens-energy-sgt-4000f-turbinedonaustadt.jpg> (21.09.2023)

Demonstration facilities – H2 Collector Ost

Austria



- Kick-off project for an Austrian H₂-pipeline system
- Connection between wind-/solarenergy rich areas and Vienna
- „PanHy“-electrolyzer project shall supply 300 MW power till 2030
- Project lead:
Austrian Gas Grid Management



Source: <https://www.aggm.at/wasserstoff-transport/> (21.09.2023)

Thank you



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