

Supply situation for the winter period 22/23



Joint Information Day Vienna, November 24, 2022

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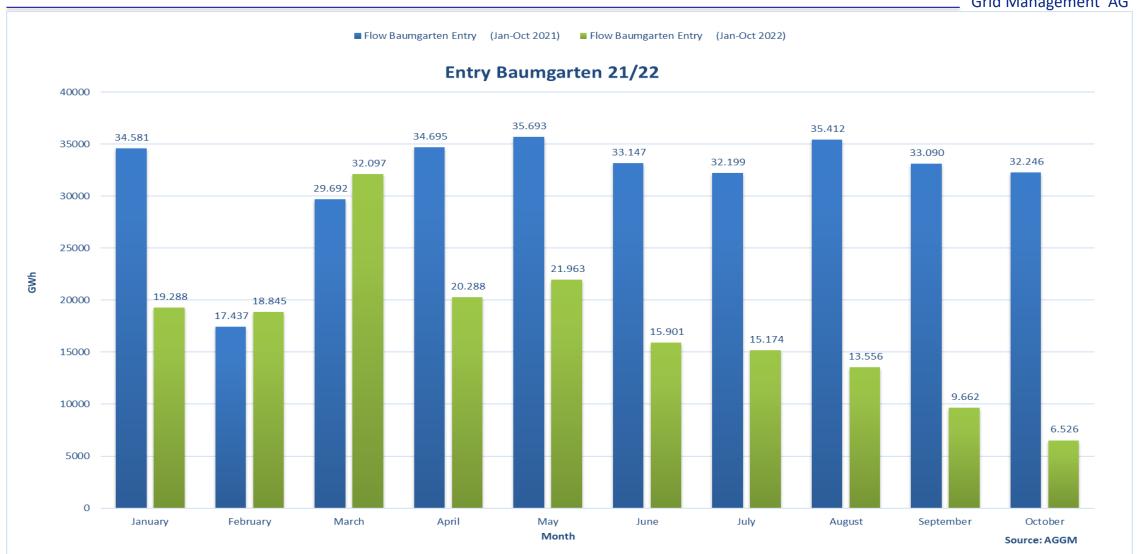


Source: AGGM-Platform
https://platform.aggm.at/portal/visualisation/ts-publication; timeseries: Σ Storage Level
MA-East [kWh]; Σ level MA-East [%]

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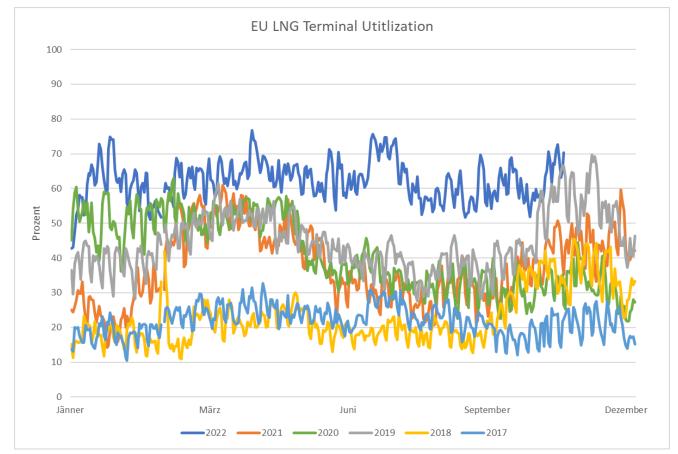
Significant reduction of gas flows

AGGM Austrian Gas Grid Management AG



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- ► LNG plus Norwegian, Algerian, Azerbaijani pipeline imports compensate for Russian supply shortfall
- Stricter Monitoring of SoS-supply-standard
- Incentives to build up storage inventories for industry
- Ensuring the availability of unused storage capacity
- Legally mandated procurement of gas
 - 20 TWh Austrian strategic gas reserves procured by ASGM (100 % subsidiary of AGGM)

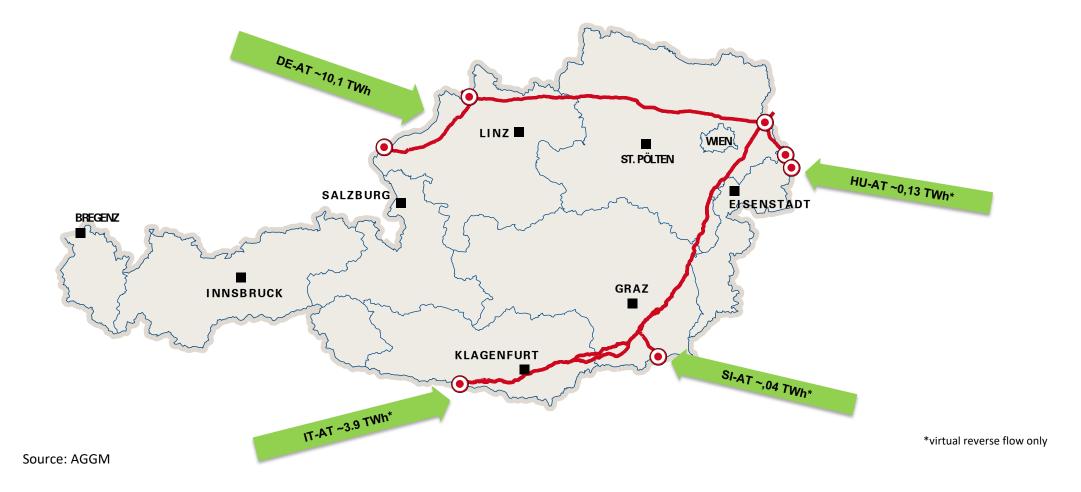
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Source: AlSI, 15.11.2022

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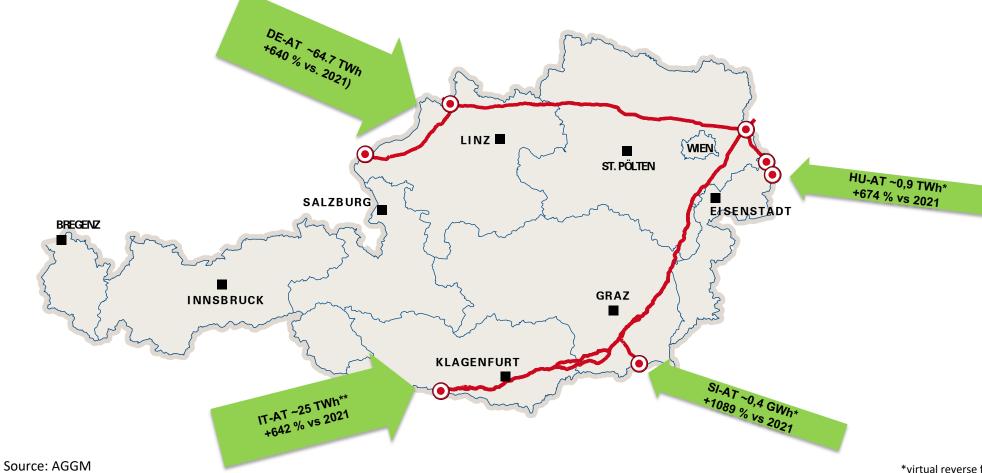
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Entry Allocations Market Area East (March – October 2021)



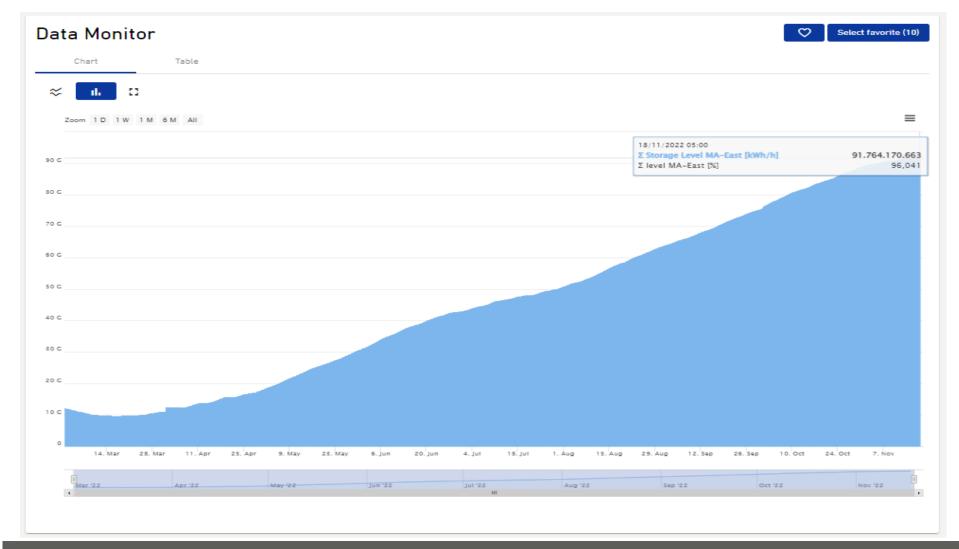
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Entry Allocations Market Area East (March – October 2022 vs 2021)



*virtual reverse flow only

^{**}mostly virtual reverse flow



- High storage levels
- High usage of LNG-facilities
- New LNGfacilities are coming online
- ..
- Major risks remain

Source: AGGM-Platform

https://platform.aggm.at/portal/vis

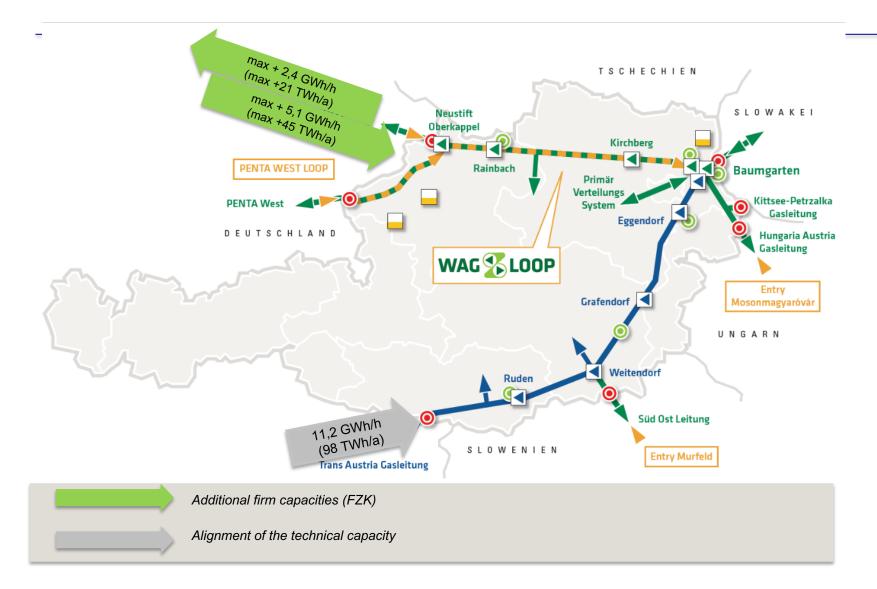
ualisation/ts-publication ;

timeseries: Σ Storage Level MA-East [kWh] ; Σ level MA-East [%]

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Diversification of sources needs ...





- Realisation of
 - additional transport capacities
 - additional LNG-Terminals
- Integration of renewable gases (Biomethane and Hydrogen) into the energy system*
 - The gas grid is ready to transport both

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^{*}Potentials for the contribution of renewable energy in Austria can be found in the Study ONE 103: https://www.aggm.at/en/energy-transition/one100

GIVE PEACE A CHANCE!

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The New Austrian Balancing Regime - an Initial Review



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- Objectives & Challenges during New Market Model Implementation
- Market Area Status Information
- Calorific Value Reconstruction Simulation
- Initial Review Conclusions

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Processes

- Harmonize existing processes
 - ► Integration into one central EDM-System "AGIMOS"
 - i.e., balance responsible party (BRP) registration, adding a balance group member, etc.
- Coordinate and implement new processes
 - Integrated market area balancing
 - Integrated market area status provision
 - ▶ Balance group status provision
 - BRP registration in market area west
 - (end consumer) supplier registration
 - Registered areas for distribution system operators
 - etc.

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IT-Development & Testing

- Complete IT development and test phases on time
 - Internal tests
 - Testing with market participants

Migration

- Coordinate and complete data migration with system operators on time
 - Data migration of 83 suppliers, 21 balance responsible parties in the market area west and 21 distribution system operators
- Support transition registration for 72 BRPs
 - provision of AGCS information, contract signing, communication with system operators
 - Support of a 2-week transition period for late security deposits

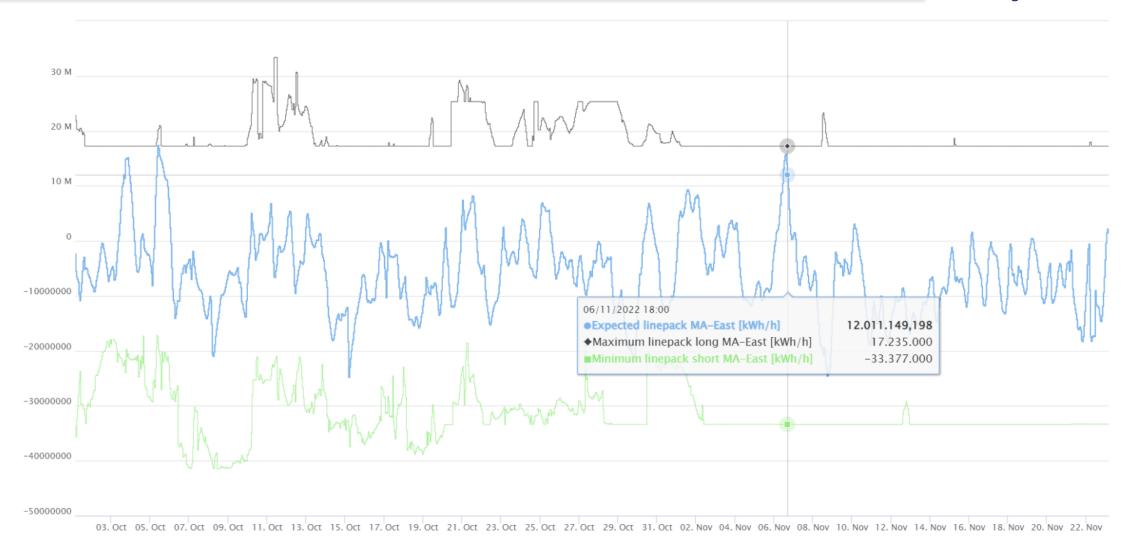
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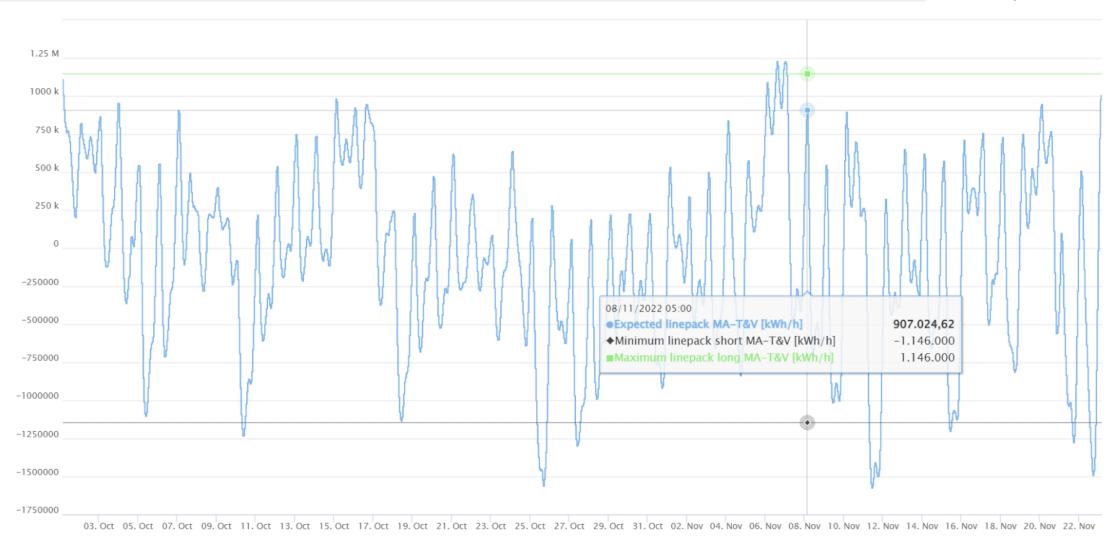
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System Launch

- Support market participants and AGGM platform users
 - User guides
 - Q&As
- Keep downtimes as short as possible
- Provide master data of market participants to system operators correct and on time
- Submit new messages (in particular the balance group status) on time and without errors
 - Quality issues to be discussed...

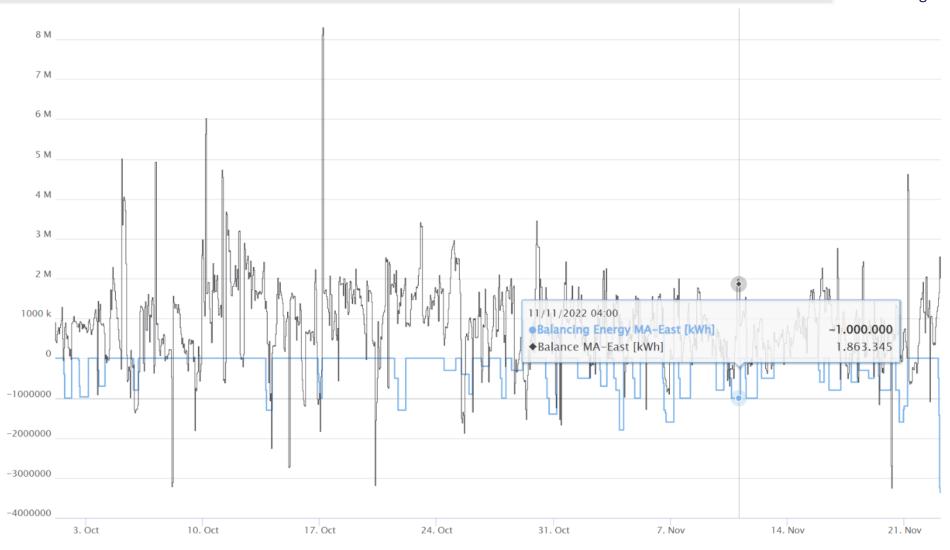
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Market Area Integrated Balancing Energy Procurement in MA East

AGGM Austrian Gas Grid Management AG

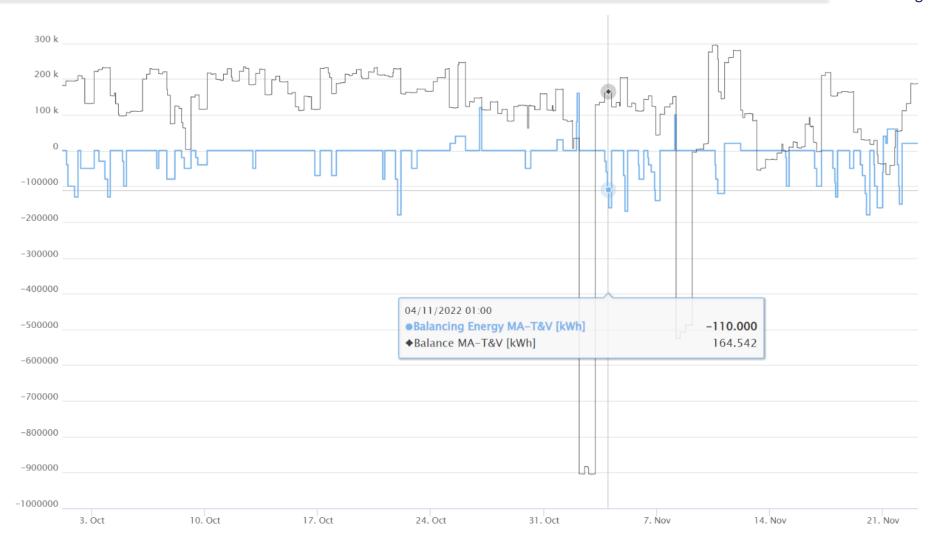


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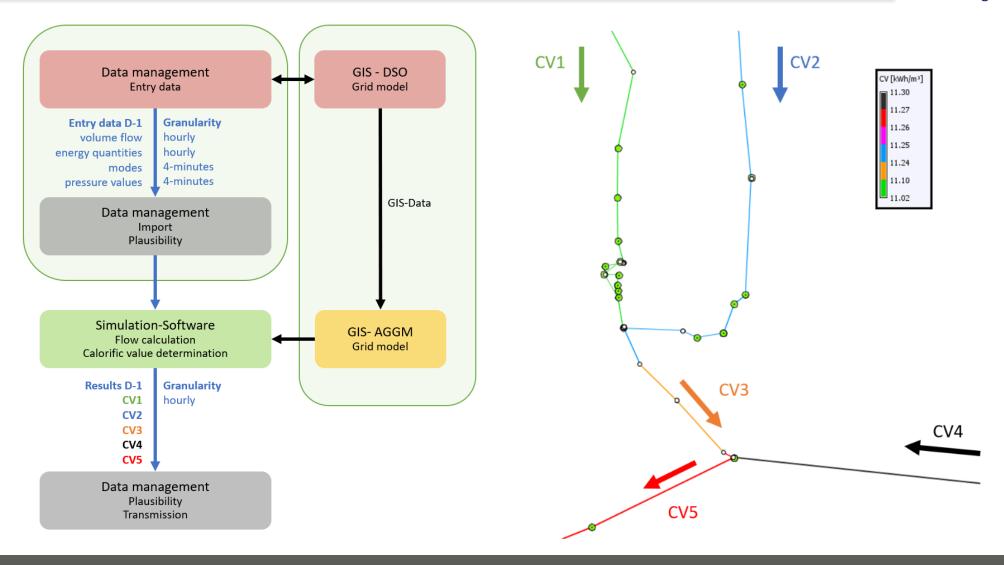
Market Area Integrated Balancing Energy Procurement in MA West

AGGM Austrian Gas Grid Management AG



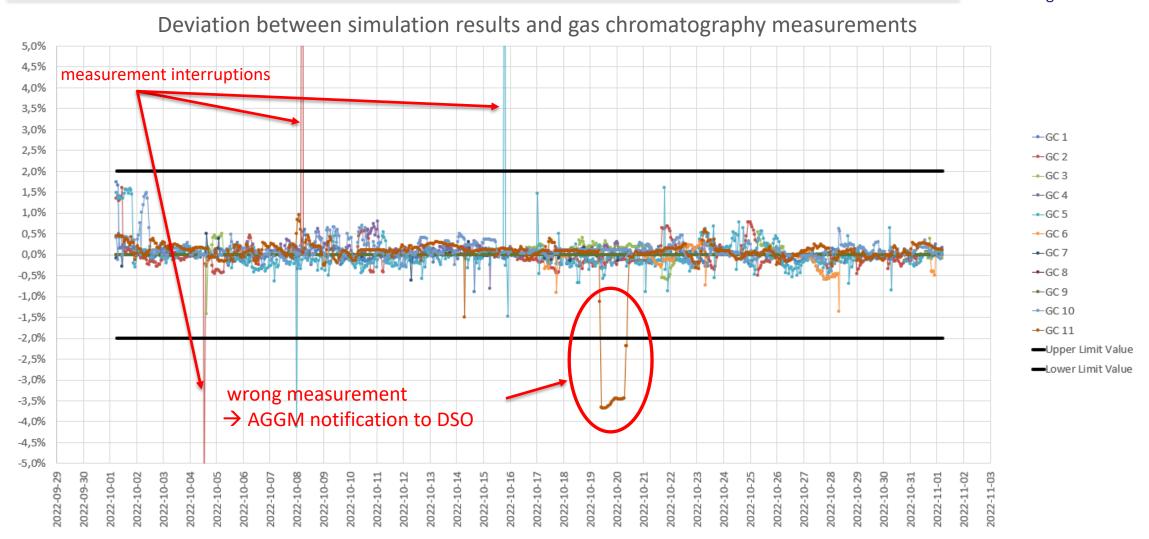
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- Successful start of the new market model processes with high attention on market communication
- Constant oversupply of Market Area East since October 1st
 - ► (Almost) only balancing energy sells
 - Probably not caused by the new market model
- Numerous violations of the 4% limit of the (cumulated) hourly imbalances set per balancing group
 - One day in MA East and two days in MA West with necessary buy and sell balancing energy purchases
 - Respective within-day obligations to be settled
- Load profile metered end consumer forecasts for within-day balancing status still to be improved
 - ▶ Improvement expected after receiving final data for the 1st clearing of the balancing entity (AGCS and A&B)
- Adaption of standard load profiles due to expected decrease in end consumer demand under revision
- Successful start of the calorific value reconstruction simulation in the level 1 distribution grid
 - ▶ Determination of calorific values for distribution grids as of October 1st, 2022
 - Determination of calorific values for individual end consumers as of January 1st, 2024

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Hydrogen for the future Austrian energy system



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project "H₂ readiness":

main target: H₂ roadmap for Austria

Integrated long term planning 2022 (iLTP 2022)

Specific H₂ pipeline projekt on the basis of capacity expansion applications

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 \triangleright Pre-project phase: ONE100: H₂ transportation network is necessary in Austria

Project members: AGGM + all transmission system operators and all distribution system operators

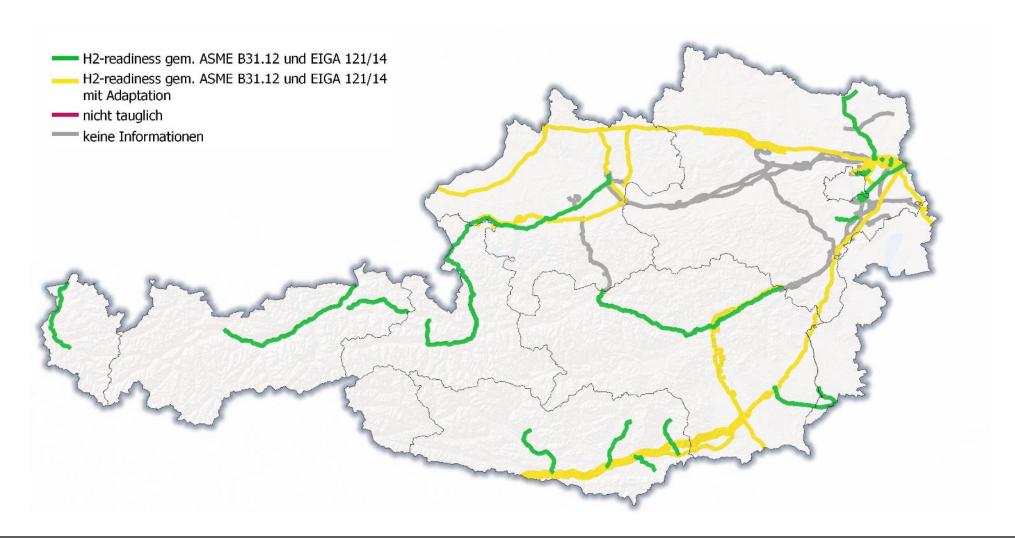
Project start: 11/2000

Project end: 12/2022

- Project Phases
 - ▶ Phase 1: Determination of the H₂ readiness of the gas network components
 - ▶ Phase 2: Survey of the Austrian H₂ demand
 - Phase 3: creation of the H₂ Roadmap for Austria

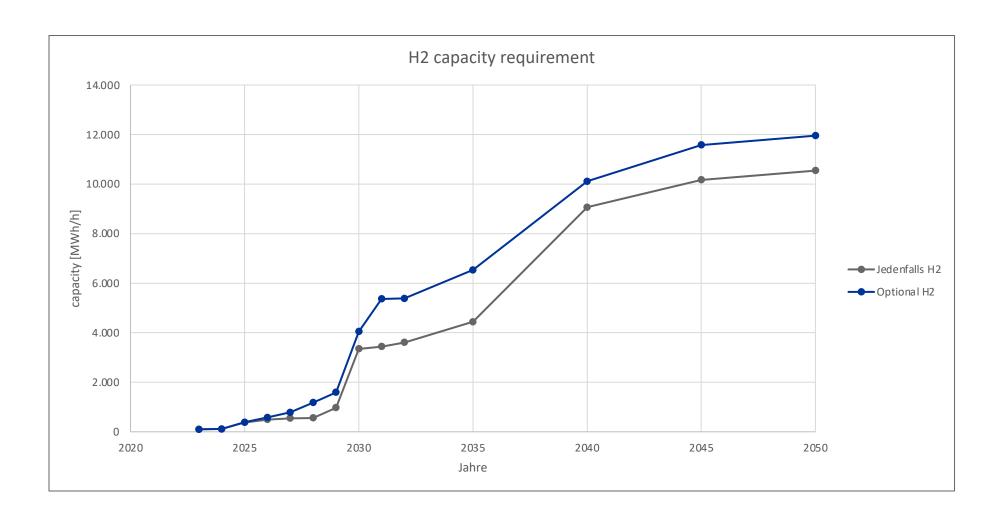
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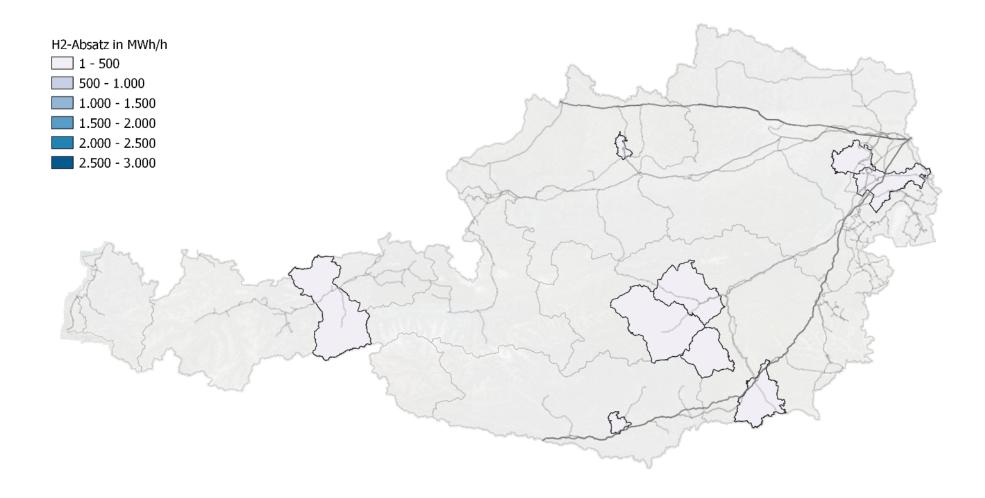


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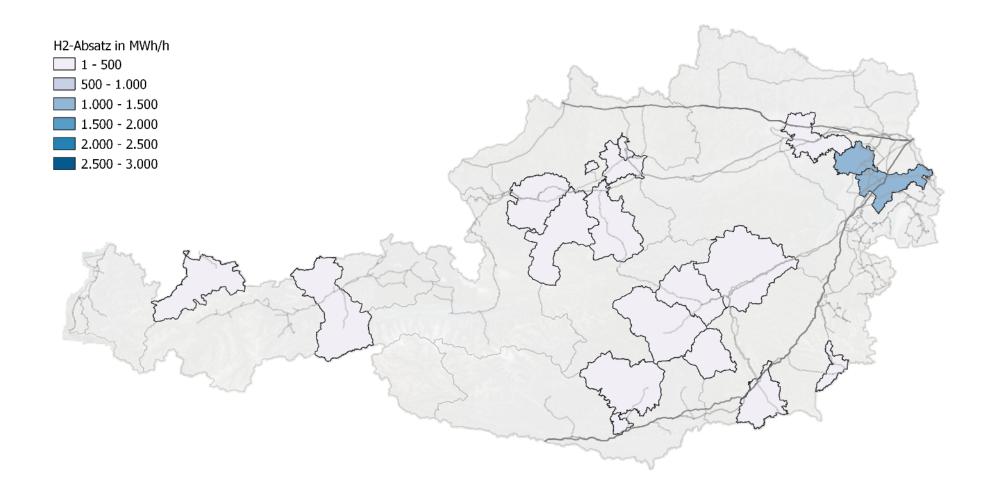
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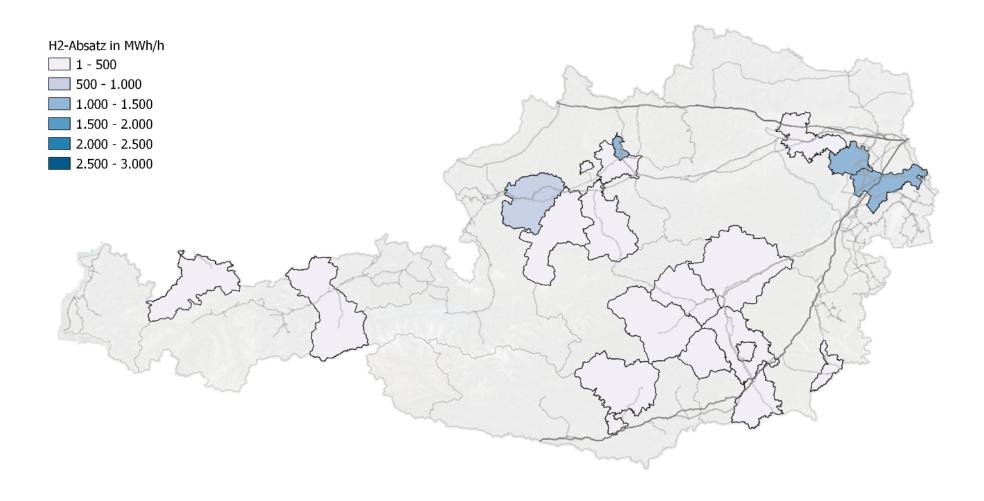


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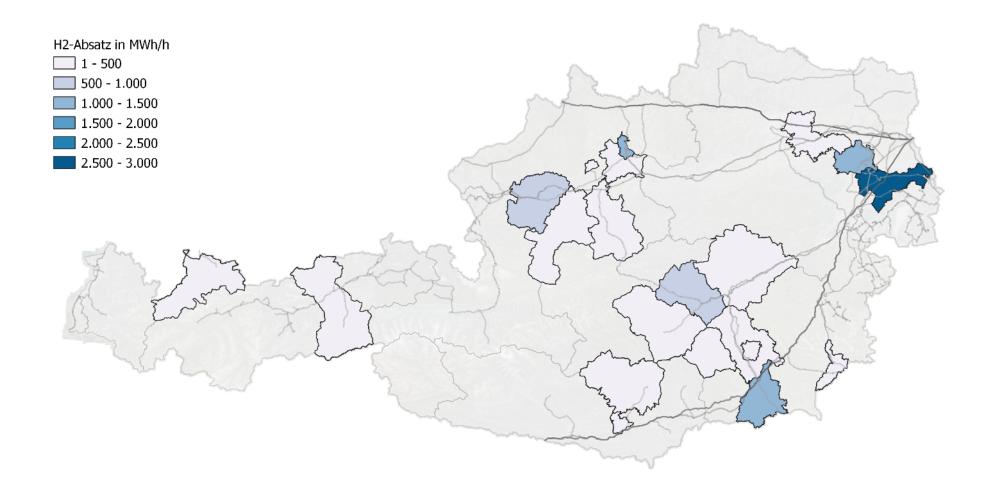
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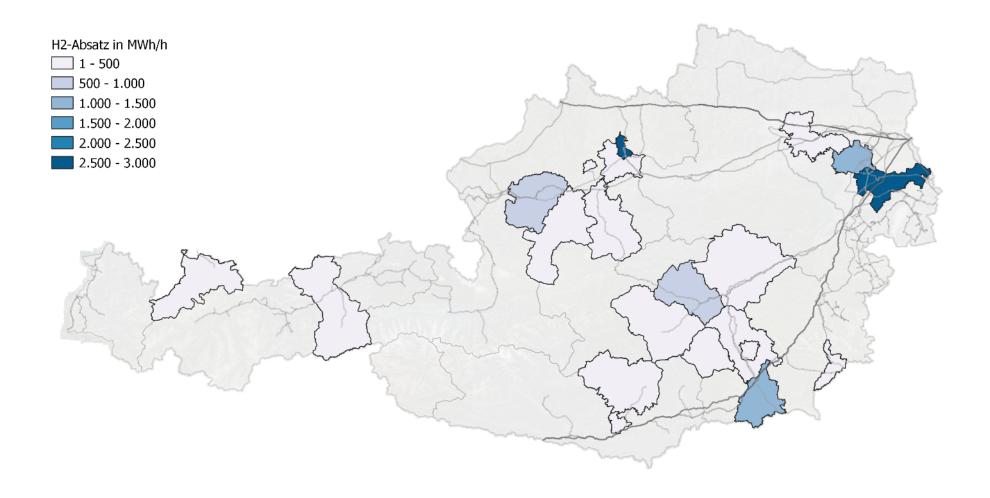
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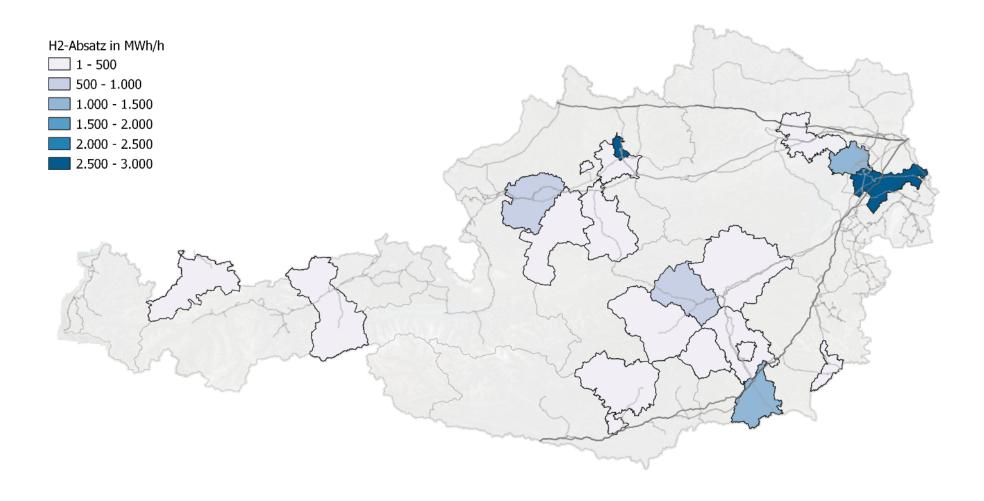
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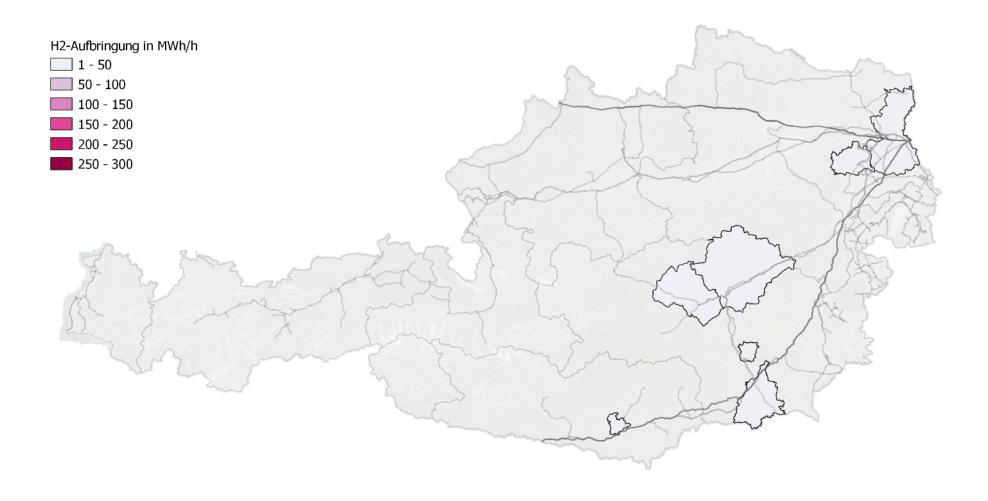


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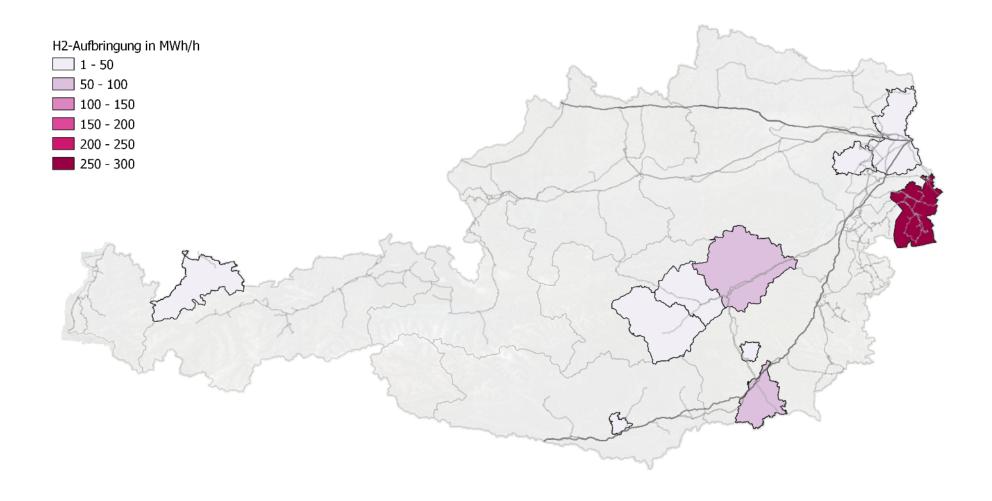
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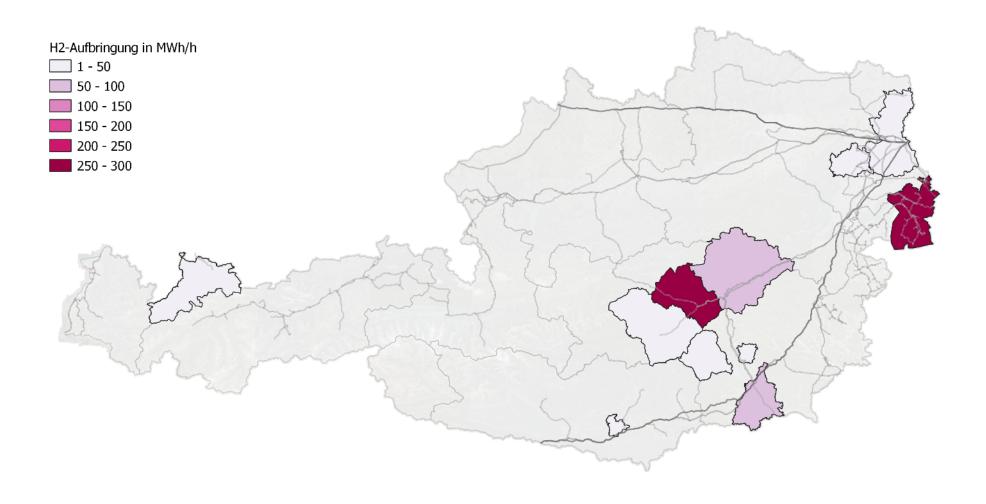


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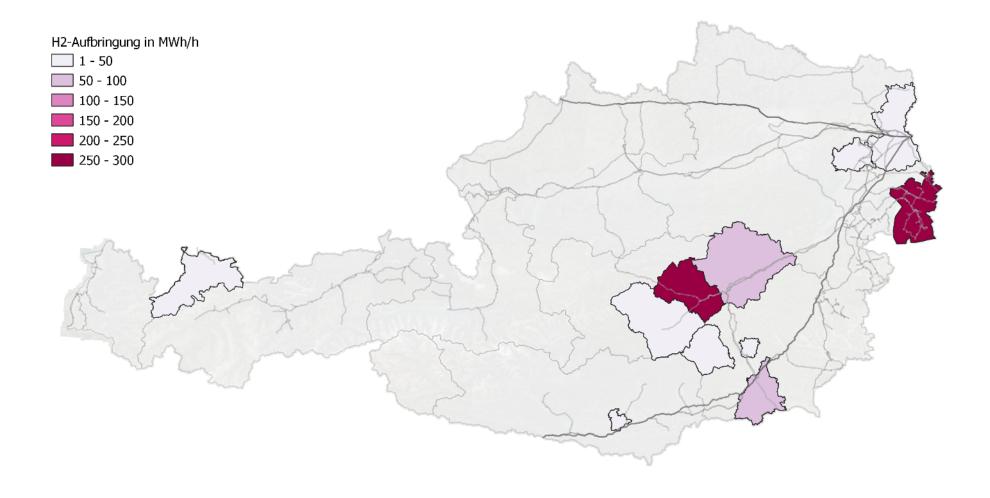
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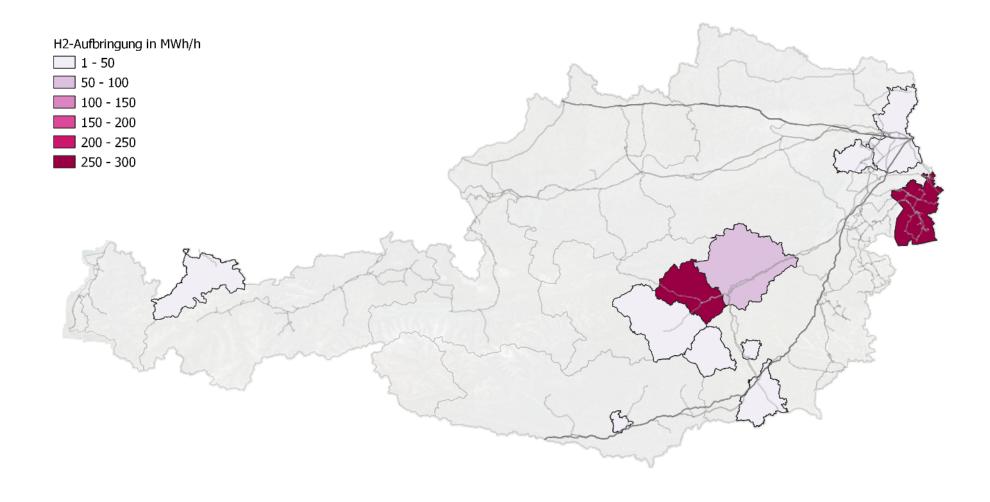
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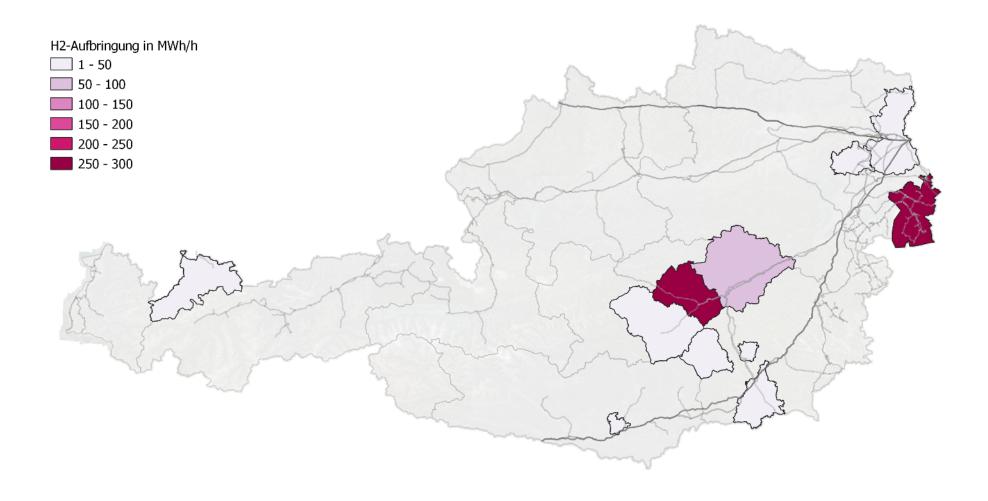


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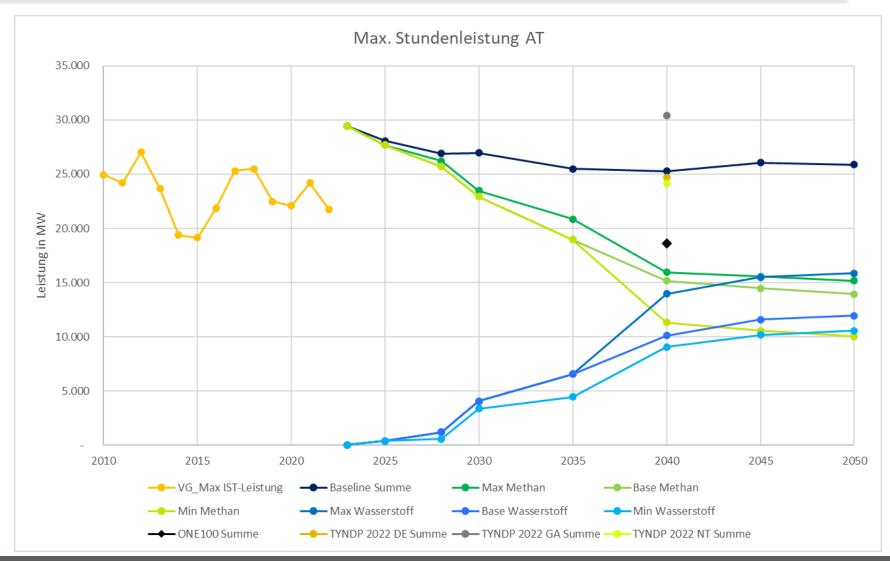


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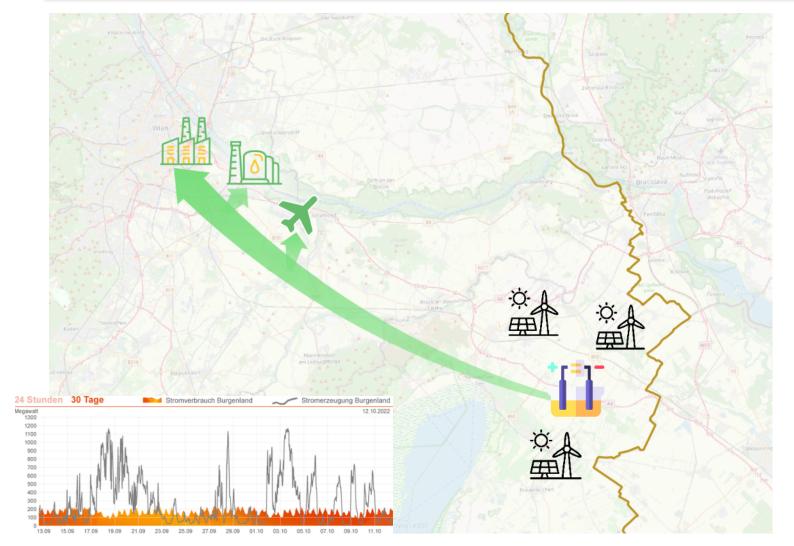
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- Phase 3 is now in progress
- We perform simultaneous hydraulic calculations for CH₄ and H₂
 with various different demand and supply scenarios
- **2**025, 2030, 2035, 2040, 2045, 2050
- ► Target: H₂ Roadmap for Austria hand in hand with European Hydrogene Backbone
- H₂ Roadmap for Austria will be presented at AGID (Austrian Gas Infrastructure Day) on 19.01.2023
- https://www.aggm.at/veranstaltungen/austrian-gasinfrastructure-day



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- AGGM recieved six H₂ capacity enlargemet applications (4 Exit, 2 Entry)
- → Planning order for the iLTP 2022
- The final H₂ Pipeline project will be presented at
 AGID (Austrian Gas Infrastructure Day) on 19.01.2023
- https://www.aggm.at/veranstaltungen/austrian-gas-infrastructure-day

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