

# New AGGM Services according to the New Balancing Regime

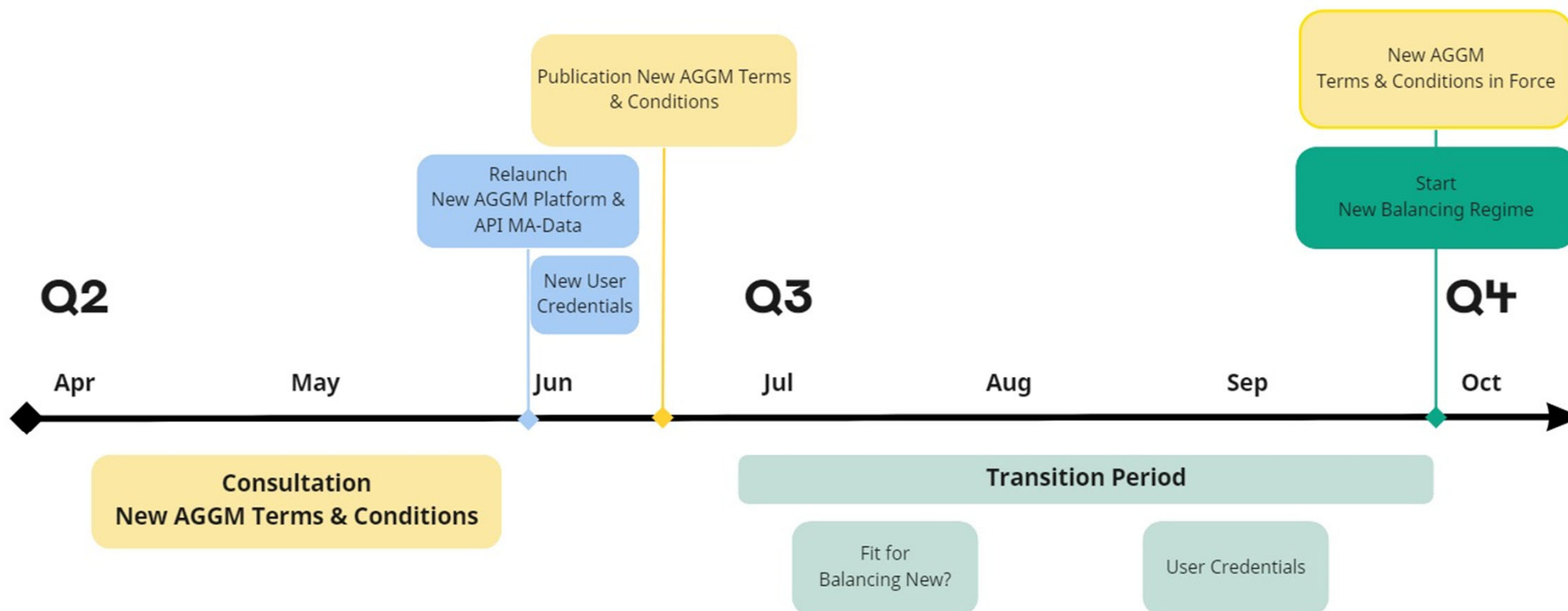


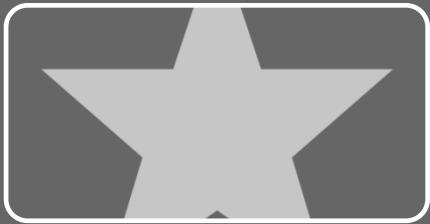
Joint Information Day  
Vienna, 25.11.2021

- ▶ Schedule until Start of the New Balancing Regime on Oct. 1<sup>st</sup>, 2022
- ▶ June 2022
- ▶ Transition Period June – September 2022
- ▶ New Registrations for the New Balancing Regime
- ▶ Data Provision

# Schedule until Start of the New Balancing Regime on Oct. 1<sup>st</sup>, 2022

AGGM Austrian Gas  
Grid Management AG





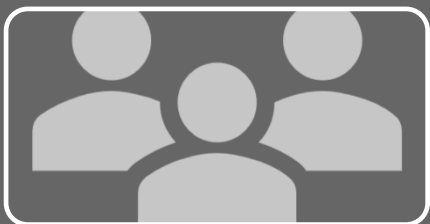
### Relaunch AGGM Platform

- High performing webservice
- Central data storage
- New API market area data



### New Web Interface

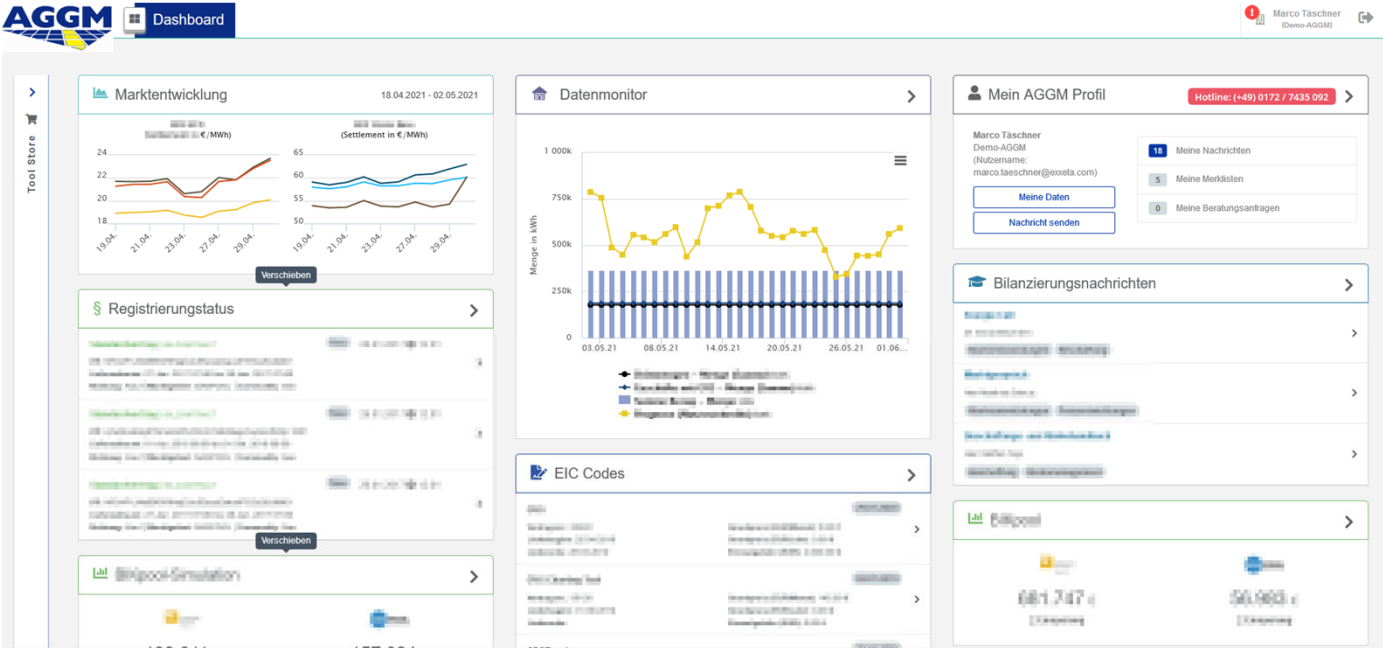
- Higher usability
- Mobile version



### User Experience

- Single sign-on
- Dashboard
- New functions
- Registration assistant

# Dashboard

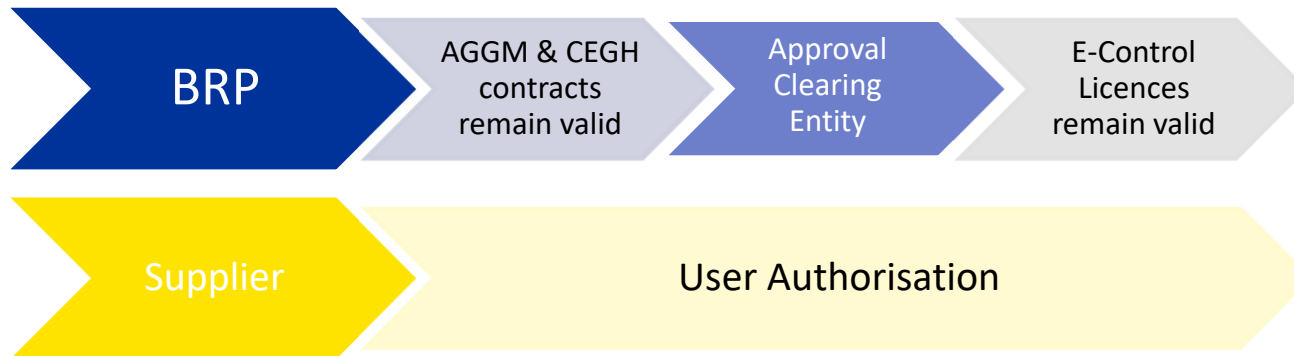


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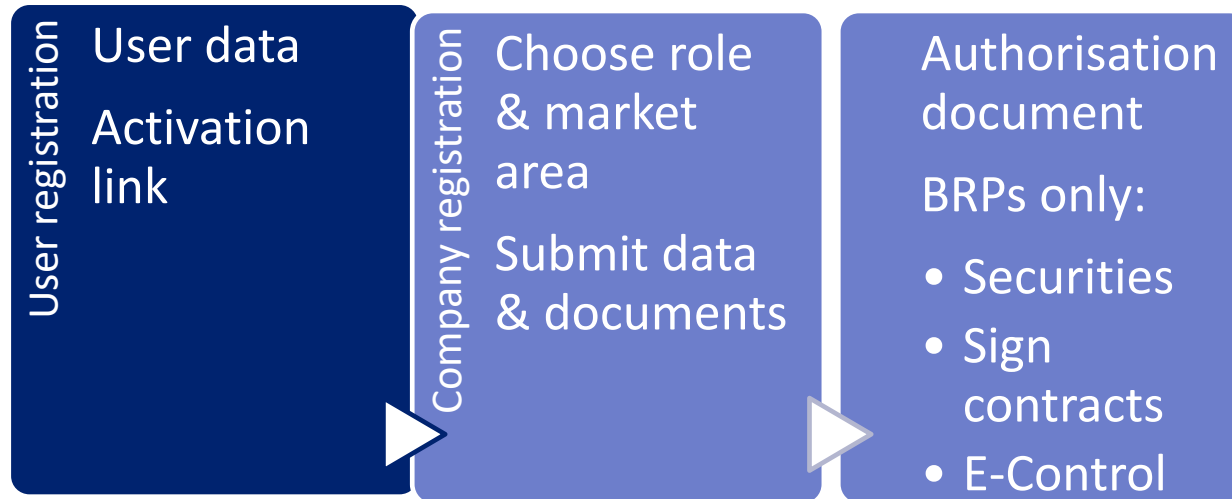
AGB Datenschutzbestimmungen Impressum

## ▶ Start transition period for new balancing regime

- ▶ Does your company fulfil the requirements for the new balancing regime?
- ▶ Are you a balance responsible party (BRP) in the market area west (MA-West)?
- ▶ Are you a supplier?
- ▶ Market participants without credentials will need to sign an authorisation document & will further receive credentials for the AGGM Platform usage



# New Registrations for the New Balancing Regime



## ▶ Registration on AGGM Platform

- ▶ Balance responsible party (BRP) MA-East: Clearing Entity (CE) contract is mandatory; no exchange (EEX) membership
- ▶ Balance responsible party MA-West
- ▶ Supplier: registration with Energy Identification Code (EIC)
- ▶ New AGGM Terms & Conditions BPRs: integrated market areas
- ▶ Current identification numbers remain valid (Y-Codes) and merge of AT-numbers (MA-East & MA-West)
- ▶ Master data exports will be shared with relevant system operators

## ▶ Login AGGM Platform

- ▶ User groups: balance responsible party , supplier, distribution system operators, system operators (E-Control Austria, Clearing Entity, Virtual Trading Point)
- ▶ Administration of balance groups and suppliers: change of balance responsible party by supplier
- ▶ Company information and user information
- ▶ Data monitor

## ▶ New Balancing Regime

- ▶ More information in [AGGM CCT](#)

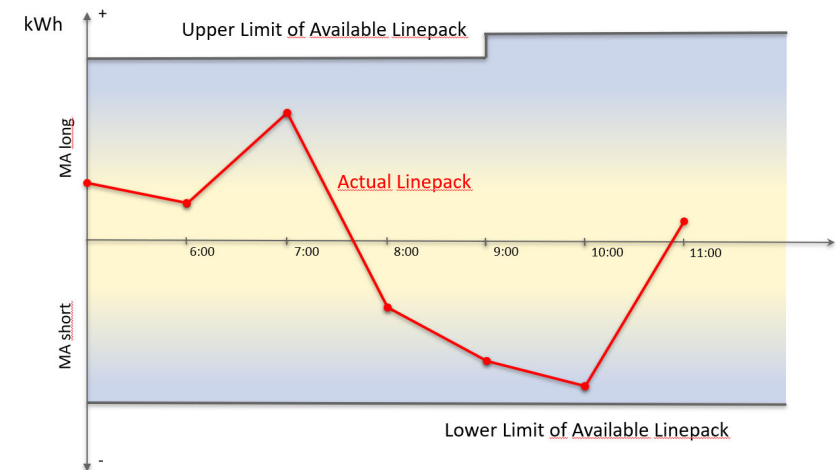


## „Balance Group Position“ and „Allocation Status“

- ▶ Comprehensive data calculated according to the best value principle (forecasts, meter data, final allocations) provided per individual balance group
  - ▶ Hourly (preliminary, day ahead and intra day)
  - ▶ Next day (updated)
  - ▶ After end of month (clearing 1)
  - ▶ After 14 months (clearing 2)
- ▶ Balance Group Position
  - ▶ Entry/exit sum
  - ▶ Unbalance short/long, cumulated unbalance short/long
  - ▶ Sum of end consumer demand
  - ▶ Sum entry renewable gas production
  - ▶ 4% within day obligation (WDO) tolerance, tolerance overrun, cumulated tolerance overrun
- ▶ Allocation Status
  - ▶ Separated end consumer sums (SLP, LM smaller/larger 10 MW hourly/daily allocated)

## „Market Area Position“

- ▶ Balancing energy quantities and prices per balancing action (hourly)
- ▶ Balancing energy prices, WDO fees, neutrality charge, position of the neutrality account (each day for the previous day)
- ▶ Aggregated available linepack (transmission line + distribution system) and actual linepack (hourly)
- ▶ Market area position (overall netted entry/exit allocations, hourly)
- ▶ Aggregated allocated consumption separated for end consumer groups (SLP and LM smaller/larger 300 MW, hourly)
- ▶ Calorific values per calorific value area (monthly, as of January 1<sup>st</sup>, 2024)



Thank you very much for your attention.  
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## **Austria's Sustainable Energy System – 100% Decarbonised** **The Economical Optimised Energy System for a Climate-neutral Austria**



Joint Information Day  
Vienna, 25.11.2021

more Information: <https://www.aggm.at/en/energy-transition/one100>

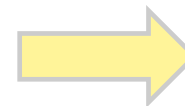
- ▶ AGGM is responsible for the creation
  - ▶ of the integrated long-term planning (infrastructure planning of the distribution area) and
  - ▶ the coordinated network development plan (infrastructure planning of transmission lines)

Political Guidelines(AT): Decarbonisation by 2040



Technical Service Life of High-Pressure Steel Pipes: Up to 80 Years

- ▶ Questions regarding the infrastructure planning:
  - ▶ What is the importance of gas in the future energy system?
  - ▶ Which gases (gas mixtures) will be transported?
  - ▶ How can the gas pipelines built today be used over their entire technical service life?
  - ▶ Is it justified to make investments in the gas system?



1 step back:  
We have to clarify the  
fundamental question

## ► Requirements for the study

- For all energy sources
- For all sectors (industry, commerce, household, mobility, etc.)
- Open to all technologies
- 100% GHG reduction
- Security of supply
- Feasible
- Sector coupled
- Minimum economic costs

- an energy-economic optimisation model is needed with which an **economically optimised energy system** can be designed

## ► Partner



## Input Data

### What is needed?

Useful\*- energy demands per section and region

### Which resources are available?

Potential energy production and storage per region (water, wind, solar, biomass, caverns ...)

### Which technologies are approved?

Kit of permissible technologies incl. technological characteristics (costs, efficiency...)

### Additional general conditions?

Import options, 100% decarbonisation, 19 regions, greenfield approach...

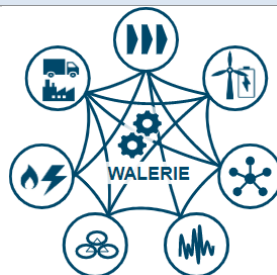
\* Energy available to energy consumers after the conversion e.g., from gas (final energy) to space heating (useful energy).

## Calculation for a Cost-effective Energy System

### Target function

**Minimum total energy system costs**  
(Annual costs: Annual costs of capital, operation and maintenance, biomass, import)

### Optional design, by...



### General conditions

**Potential** (may not exceed)  
**Technical** (security of supply)

## Target for a decarbonised Energy System

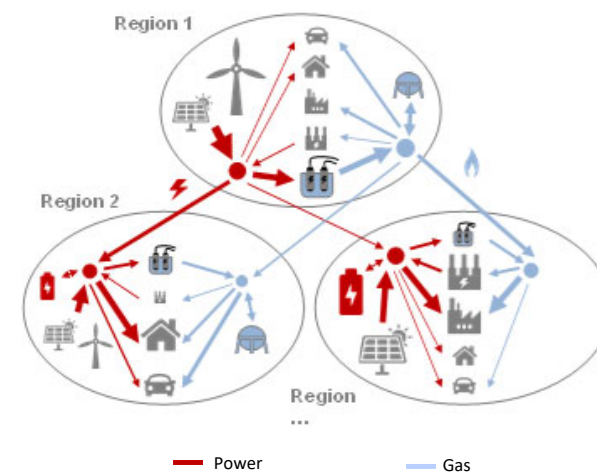


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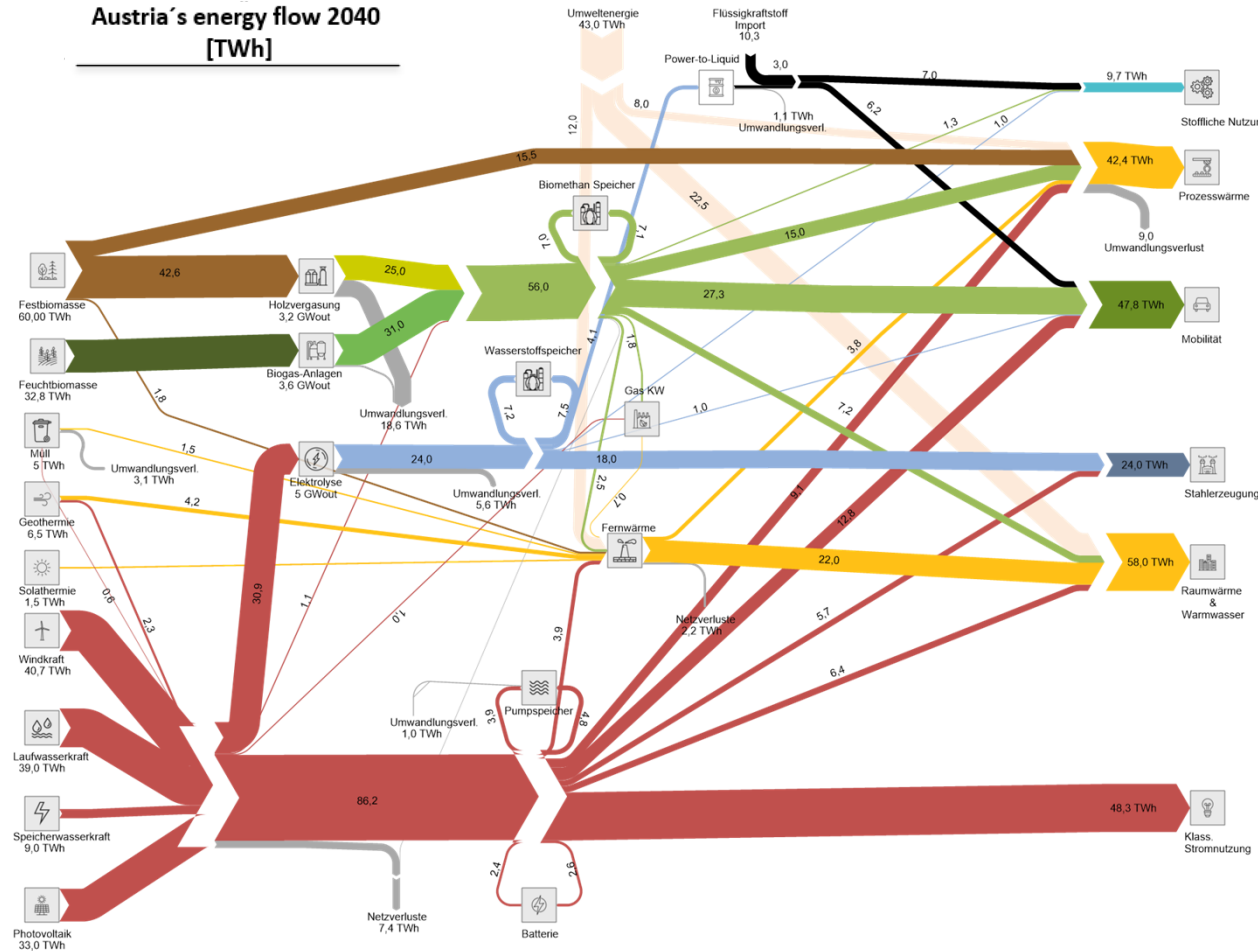
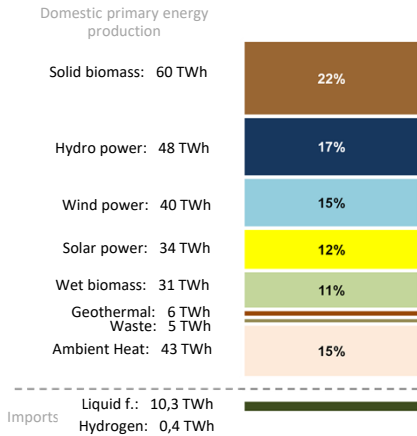
Optimal sector coupling  
Optimal result of utilisation of resources

# ONE<sup>100</sup>: Result

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Primary Energy incl. Ambient Heat: 279 TWh

**Austria's energy flow 2040**  
[TWh]



**96% domestic primary energy supply**

Final energy usage drops by 43% in ONE<sup>100</sup>

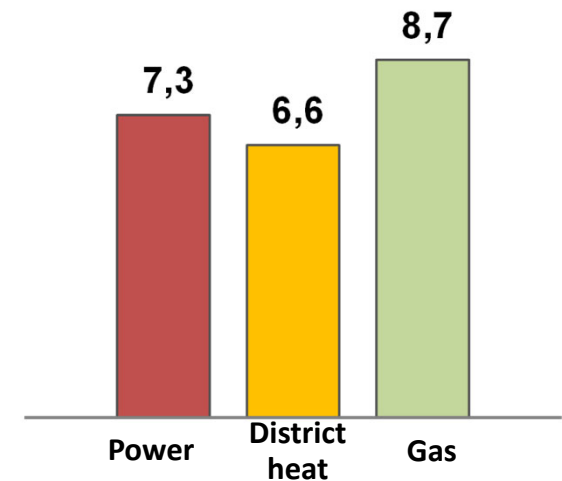
- ▶ E-mobility
- ▶ Heat pumps
- ▶ Wood gasification incl. gas heat pumps



# Efficient network infrastructure is necessary

- ▶ 86% of the final consumption is covered by (pipe)line-related energy (power, biomethane, hydrogen, district heat)
  - ▶ **Balance** of peak loads → supply and system reliability of ONE<sup>100</sup>
  - ▶ **High-capacity infrastructure** is necessary to realise the renewable energy potential
  - ▶ Electricity: Extension of the transmission and the distribution network → **380 kV ring confirmed**
  - ▶ An exclusion of renewable gases within the final distribution leads to: higher costs of the energy system, reduction of the domestic added value and an additional expansion needs of the power grid by 50%
  - ▶ **Separate hydrogen infrastructure is necessary**, seasonal storage of renewable power (without H<sub>2</sub>-network, the power grids capacity needs to be increased by 32%)

Performance of final distribution in GW



## ONE<sup>100</sup>: The Six Most Important Findings

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- ▶ Massive development of ALL renewable energy sources
- ▶ Use of efficient technologies
- ▶ Full sector coupling is essential
- ▶ High capacity network infrastructure is necessary
- ▶ Costs of the entire energy system remain at a similar level
- ▶ Observe implementation risks

**A 100% decarbonised,  
affordable and secure energy system in  
Austria is feasible!**





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## Concept for a dedicated H2 network in the distribution area of Austria

Joint Information Day

Vienna, 25.11.2021

more information: <https://www.aggm.at/en/energy-transition/h2-readiness>

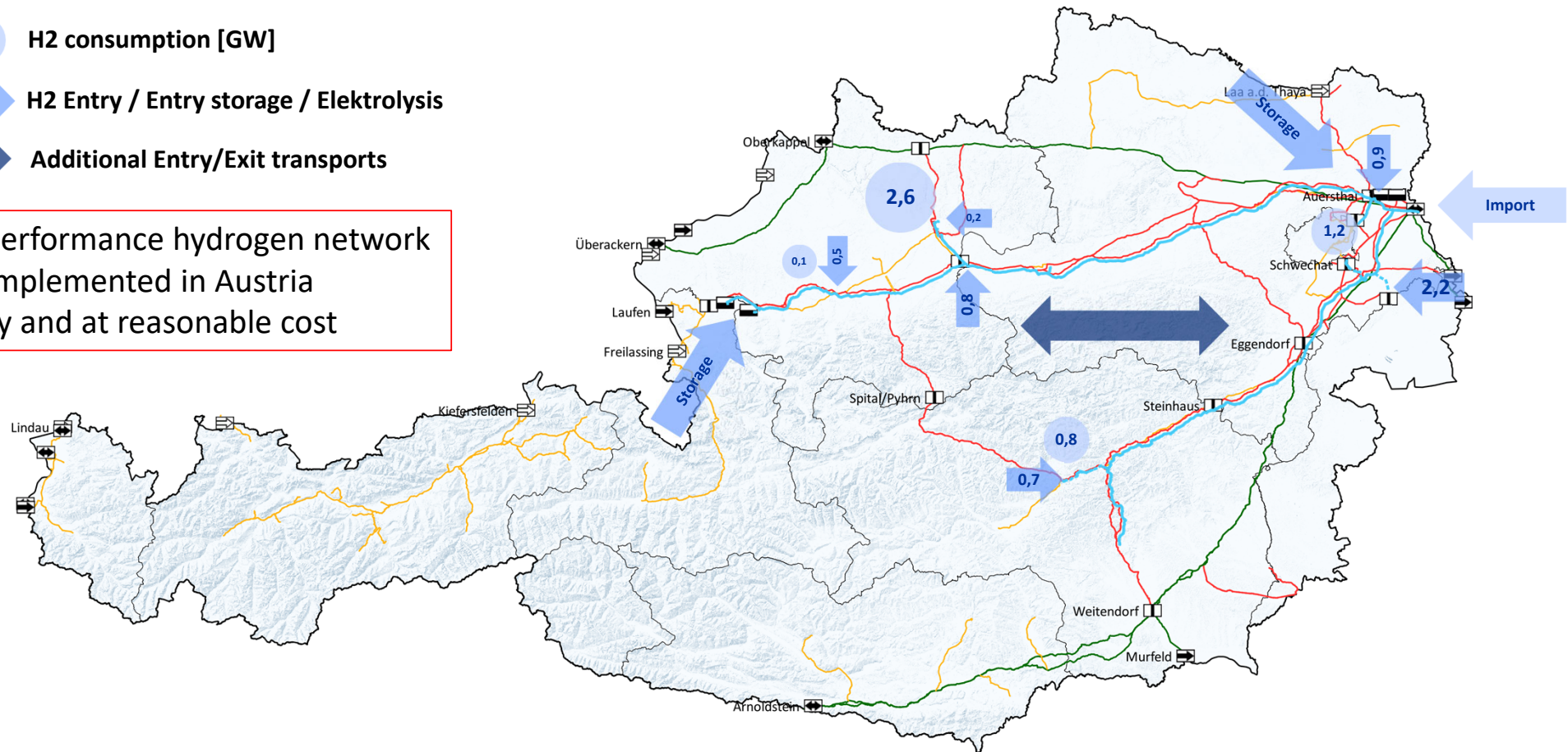
# variant 1 – focus on west/south pipeline

1 H2 consumption [GW]

➔ H2 Entry / Entry storage / Elektrolysis

↔ Additional Entry/Exit transports

A high-performance hydrogen network can be implemented in Austria promptly and at reasonable cost





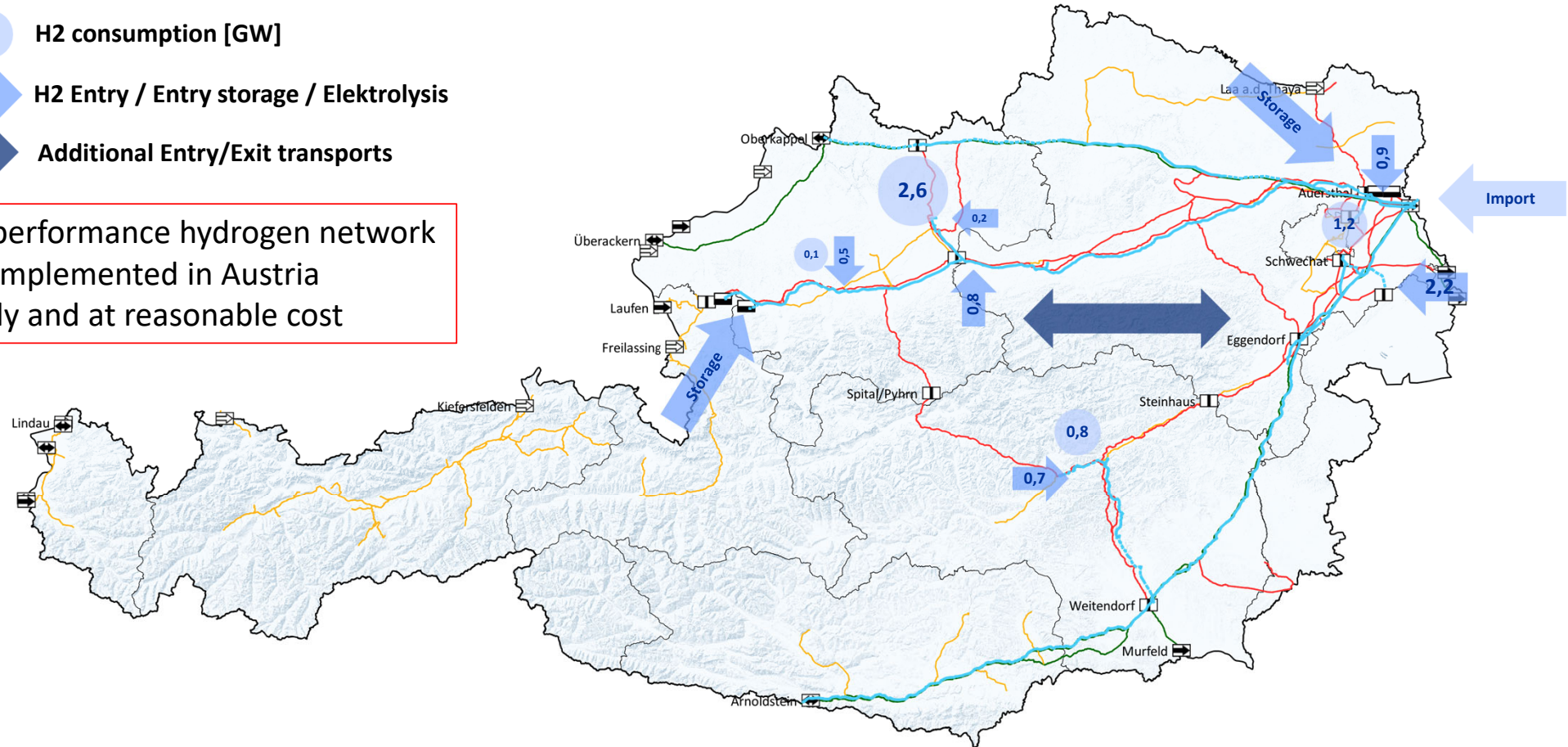
# variant 2 – focus on transmission pipeline

1 H2 consumption [GW]

➔ H2 Entry / Entry storage / Elektrolysis

↔ Additional Entry/Exit transports

A high-performance hydrogen network can be implemented in Austria promptly and at reasonable cost



Anmeldung AGGM Newsletter: [Link](#)

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