



AGGM Austrian Gas Grid Management AG

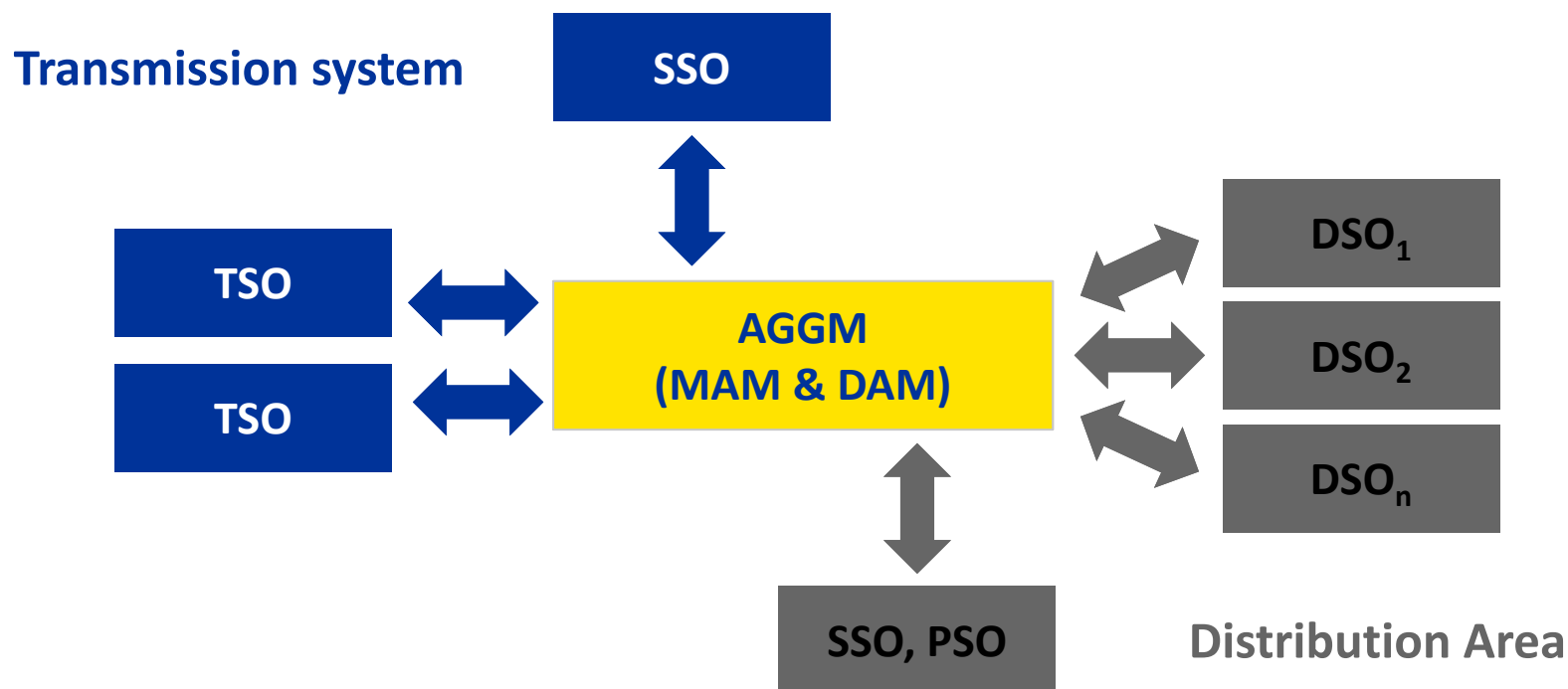
# Maintenance Information Meeting 2020/2021

26<sup>th</sup> November 2020

- ▶ **Principles of Maintenance Coordination**
- ▶ Review Maintenance Coordination 2020
- ▶ Current Status Maintenance Coordination 2021
- ▶ Publication

- ▶ *[MAM]* coordinate[s] maintenance of the transmission and distribution network [...] such that the impact on system users is kept as small as possible  
*Sec. 14. (1) 11. Natural Gas Act*
- ▶ *[DAM]* coordinate[s] maintenance of the distribution pipeline systems listed in Annex 1 such that the impact on network users is kept as small as possible  
*Sec. 18. (1) 28. Natural Gas Act*
- ▶ Regulation (EU) No. 1227/2011 (REMIT)
- ▶ ACER Manual of Procedures on [...] and inside information reporting

- ▶ Securing end consumer demand
- ▶ No unplanned restrictions of operation due to maintenance measures
- ▶ Prevention and/or minimization of capacity restrictions for balance groups
- ▶ Optimizing necessary operative restrictions
  - ▶ Simultaneous execution of maintenance activities, which do not add up operative implications
  - ▶ Dissolving maintenance activities, which otherwise would add up their operative implications
- ▶ Transparent publication and information of the market participants pursuant to the REMIT provisions



- ▶ Annual planning for following year by November – Publication of „Integrated Annual Maintenance Plan“ (IAMP) by AGGM
- ▶ Planning/updates during the year:
  - ▶ Including new/updated projects and measures – Update of IAMP
  - ▶ Ongoing tracking of execution and completion of the maintenance activities

- ▶ **Transmission System**
  - ▶ 1<sup>st</sup> August AGGM sends questionnaires to TSOs & SSOs
  - ▶ 5<sup>th</sup> September Questionnaires return to AGGM
  - ▶ 20<sup>th</sup> September 1<sup>st</sup> Integrated Annual Maintenance Plan (IAMP) draft to TSOs & SSOs
  - ▶ 1<sup>st</sup> week in October Coordination meeting with TSOs & SSOs
  - ▶ 15<sup>th</sup> October 2<sup>nd</sup> IAMP draft to TSOs & SSOs
  - ▶ 15<sup>th</sup> November Publication of maintenance activities of the following year by TSOs
- ▶ **Distribution System**
  - ▶ 1<sup>st</sup> September AGGM sends questionnaires to DSOs & SSOs
  - ▶ 30<sup>th</sup> September Questionnaires return to AGGM
  - ▶ October: (bilateral) coordination meetings with DSOs & SSOs (if necessary)
- ▶ **November** AGGM Publication of one single IAMP
- ▶ **26<sup>th</sup> November 2020** Maintenance Information Meeting
- ▶ **During calendar year** Regular IAMP adaptations minimum 4 weeks (distribution) or 42 days (transmission) in advance

- ▶ Asset owners are obliged to publish insider information concerning planned maintenance activities via REMIT and ACER compliant publications
  - ▶ TSOs in Austria publish planned capacity reductions via ENTSOG Transparency Platform and on their website
  - ▶ SSOs and PSO in Austria publish planned capacity reductions via individual platforms and on their website
  - ▶ TSOs, SSOs and PSOs in Austria publish UMMs via individual platforms – within OMV convergence on CEGH REMIT platform
  
- ▶ AGGM publishes
  - ▶ the IAMP on its website\*
  - ▶ UMMs via the CEGH REMIT platform\*\*

\* <https://www.aggm.at/en/network-information/maintenance-coordination>

\*\* <https://www.gashub.at/remit>

- ▶ Principles of Maintenance Coordination
- ▶ **Review Maintenance Coordination 2020**
- ▶ Current Status Maintenance Coordination 2021
- ▶ Publication



- ▶ 2020 affected by Corona pandemic also relating to maintenance activities
  - ▶ lockdown at the beginning of the usual “maintenance season” in the mid of March lead to several cancellations and postponements of activities planned for March and April
  - ▶ execution according to annual planning for 2020 not possible
  - ▶ extensive changes and new measures during the year → concentration of maintenance activities starting with June 2020
  - ▶ high efforts regarding planning and coordination

- ▶ In 2020 up to now 41 maintenance activities of TSOs leading to capacity restrictions at relevant entry/exit points (publication by TSOs and in IAMP of AGGM)
  - ▶ Trans Austria Gasleitung (TAG) – 25 activities
  - ▶ Gas Connect Austria (GCA) – 16 activities

- ▶ Up to now about 250 maintenance activities registered in 2020 affecting the distribution area – activities in all distribution systems!
- ▶ Several challenging maintenance projects 2020, but effective implications on market participants in practice could be kept low:
  - ▶ only 1 capacity restriction at Entry/Exit Points of DA to be published by AGGM

- ▶ Highlights maintenance DA 2020 (excerpts):
  - ▶ Pipeline inspection Auersthal – Laa (after pipeline reconstruction 2017-2019) → optimization of gas flow conditions amongst distribution system operators for enabling pig-runs and organization of potential gas flows to/from Czech Republic with the Czech system operator
  - ▶ Measure GCA.08 (unavailability of WAG compressor station Rainbach) announced last year could be executed without restrictions for storage in DA
  - ▶ Several pipeline inspections / pig-runs demanding special operation modes and gas flow conditions in network level 1
  - ▶ Several maintenance works in transmission system implicating the DA
  - ▶ Exchange of valves, controllers and insulation spacers → pipeline interruptions and special operation modes in network level 1
  - ▶ Auxiliary supply of Vorarlberg via Leiblach for 1 month due to a pipeline interruption in the German gas grid
  - ▶ Auxiliary transport in Leiblach from Vorarlberg to Germany due to pipeline construction works in the German gas grid
  - ▶ Calibration and regulation tests in Bangs → gas transport to Switzerland to be executed

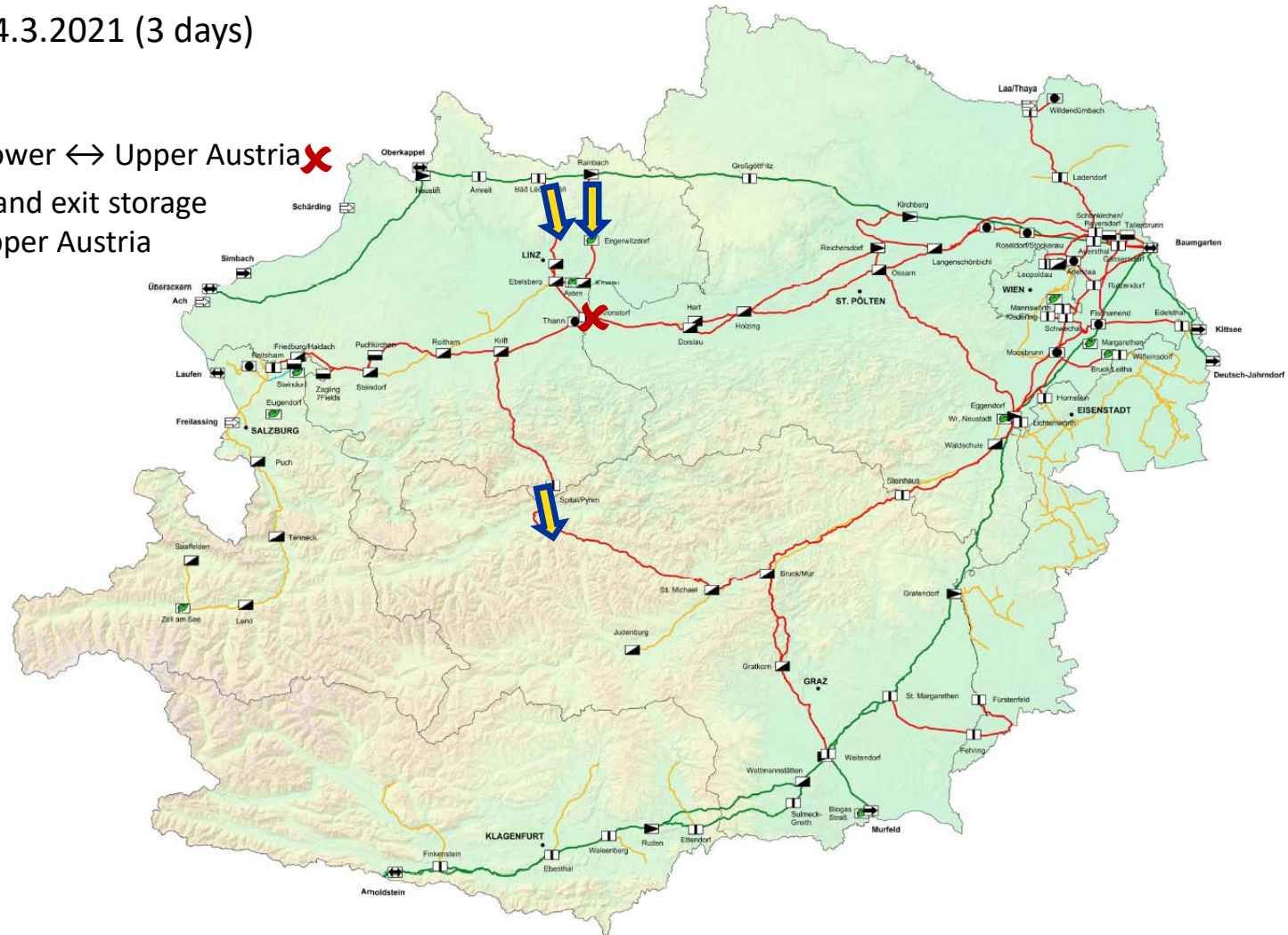
- ▶ Principles of Maintenance Coordination
- ▶ Review Maintenance Coordination 2020
- ▶ **Current Status Maintenance Coordination 2021**
- ▶ Publication

- ▶ Publication of maintenance activities by TSOs and of IAMP 2021, version 1 by AGGM on 15<sup>th</sup> November 2020
- ▶ Trans Austria Gasleitung (TAG)
  - ▶ Several System Tests (few hours)
  - ▶ Station works in Arnoldstein, Eggendorf, Grafendorf, Ruden and Weitendorf causing capacity restrictions of several days in June, August, September and July
  - ▶ Pipeline-Inspection in April
- ▶ Gas Connect Austria (GCA)
  - ▶ Several System Tests (few hours)
  - ▶ Station Works in Baumgarten, Neustift and Oberkappel causing capacity restrictions of a few hours to several days in April, June, July, September, October and November
  - ▶ Pipeline-Inspection WAG in September
  - ▶ Consequences from TAG maintenance activities on the SOL pipeline (Murfeld)

- ▶ During annual planning 2021 77 activities registered, but currently only two affecting capacities of storage interconnection in DA
  1. Station Maintenance in Kronstorf (22.-24.03.2021, 3 days) – interruption of interconnection between Lower and Upper Austria
  2. ESD Tests Baumgarten (28.09.2021, 8 hours)
- ▶ Due to optimization of execution dates of maintenance activities further capacity restrictions affecting the market participants could be avoided.
- ▶ AGGM Evaluation of the consequences of maintenance activities 2021
  - ▶ Annual capacity booking of storage and production facilities not yet finished
  - ▶ Parameters of the standard capacities 2021 to be derived by AGGM
  - ▶ Current publication of IAMP for DA contains draft evaluation based on capacity data 2020
- ▶ Capacity relevant maintenance activities 2021 of the SSOs and PSOs in DA
  - ▶ Maintenance weeks of the RAG storage facilities in April and October 2021 (each about 1 week)
  - ▶ Maintenance of the OMV storage facilities in July (about 2 weeks) and Nov 2021 (4 d)
  - ▶ Annual maintenance OMV Production Aderklaa (about 4 weeks mid April to mid May)

# Annual maintenance Kronstorf

- ▶ Duration: 22.-24.3.2021 (3 days)
- ▶ Impacts:
  - ▶ Connection Lower ↔ Upper Austria ✘
  - ▶ limited entry and exit storage volumes in Upper Austria





- ▶ Principles of Maintenance Coordination
- ▶ Review Maintenance Coordination 2018
- ▶ Current Status Maintenance Coordination 2020
- ▶ **Publication**

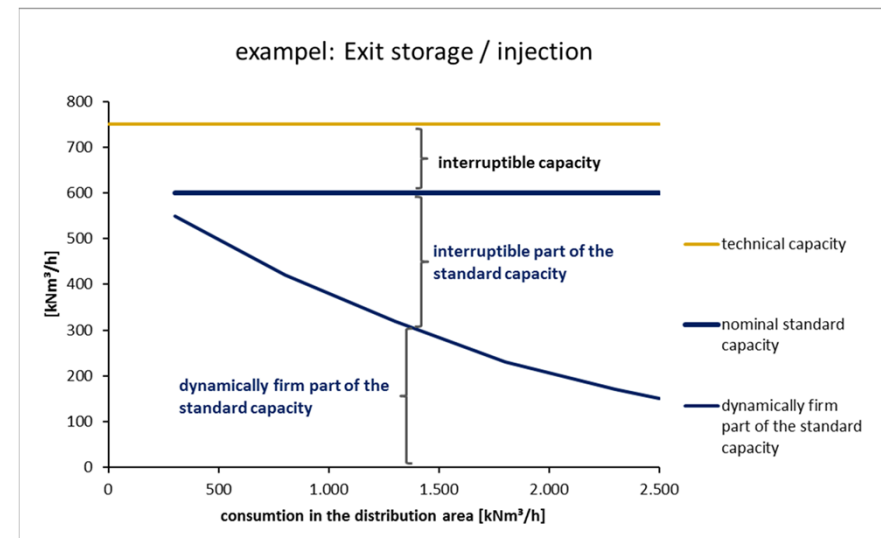
- ▶ Integrated Annual Maintenance Plan (IAMP) on AGGM website:  
<https://www.aggm.at/en/network-information/maintenance-coordination>
  - ▶ Page 1: Synopsis of capacity relevant maintenance activities of Austrian TSOs at relevant points
  - ▶ Page 2: Synopsis of capacity relevant maintenance activities of Austrian TSOs at non relevant points
  - ▶ Page 3: capacity restrictions at entry/exit points in DA caused by maintenance work as well as synopsis of capacity relevant maintenance activities of Austrian SSOs/PSOs
- ▶ Capacity restrictions at entry/exit points in DA caused by maintenance work are additionally published by means of versioned UMMs per entry/exit point on the CEGH REMIT platform  
<https://www.gashub.at/remit>
- ▶ AGGM provides on its website links to maintenance publications of the relevant system operators in Austria and of the TSOs in neighbouring countries  
<https://www.aggm.at/en/network-information/maintenance-coordination>
- ▶ E-mail address [instandhaltung@aggm.at](mailto:instandhaltung@aggm.at) for maintenance communication with AGGM in operation

- ▶ CEGH REMIT platform (<https://www.gashub.at/remit>)
  - ▶ listed by ACER as “Inside Information Platform” → standards observed
  - ▶ Relaunch of platform accomplished → option to create templates and use wildcards in postings
  - ▶ Publication freely available (RSS feed and e-mail notifications)
  - ▶ Free registration service for individual inside information publications
- ▶ UMMs of AGGM via CEGH REMIT platform only
- ▶ AGGM Newsletter and AGGM Info will continue to be available on the [AGGM Platform](#)

- ▶ ACER compliant publication of an unavailability of a gas facility via UMM contains:
  - ▶ technical capacity
  - ▶ available capacity
  - ▶ unavailable capacity
  
- ▶ Looking at publications of maintenance activities at cross-border interconnection points in transmission system or at storage facilities we see for technical reasons:  
available cap. + unavailable cap. = technical cap.
  
- ▶ Maintenance activities in the distribution area may lead to reduced transportation capacities to/from storage systems = only AGGM can calculate and publish the resulting capacity restrictions for storage = the related publications of AGGM often show:  
available cap. + unavailable cap.  $\neq$  technical cap.  $\rightarrow$  ???

## Network-related storage restrictions (2)

- ▶ Capacity products at entry/exit points in DA (e.g. booked by SSO for storage facilities):
  - ▶ standard capacity (SC)
  - ▶ interruptible capacity (IC)
- ▶ Depending on the consumption in DA, standard capacity resolves into:
  - ▶ dynamically firm part of SC
  - ▶ interruptible part of SC



- ▶ **Consumption in DA or sub systems** has to be considered as an **additional variable** when assessing capacity restrictions for storage systems!

# Network-related storage restrictions (3)

▶ Publication of a network-related storage restriction by AGGM via UMM per storage pool and direction:

▶ **technical capacity:**

max. injection/withdrawal capacity of the storage pool according to SSO

▶ **available capacity:**

capacity to be guaranteed by AGGM for the storage pool under unfavourable consumption conditions (\*) in DA

▶ **unavailable capacity:**

refers to dynamically fixed part of SC, which can be expected for the storage pool under favourable consumption conditions (\*\*) in DA;

unavailable capacity = dynamically fixed part of SC – available capacity

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Asset  
Storage Pool RAG Energy Storage (Entry DA) (25Z-SPPOOL-RAG-5)

Balancing zone(s)  
Market Area East AT (21Y000000000025G)

Unavailable capacity 1.899.000 KWh/h	Available capacity 2.386.000 KWh/h	Technical capacity 6.686.000 KWh/h
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ACER-ID: 000000001170\_000000043191\_001

Asset  
Storage Pool RAG Energy Storage (Exit DA) (25Z-SPPOOL-RAG-5)

Balancing zone(s)  
Market Area East AT (21Y000000000025G)

Unavailable capacity 3.544.000 KWh/h	Available capacity 432.000 KWh/h	Technical capacity 6.686.000 KWh/h
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(\*) based on a statistical evaluation of historical consumption data in the respective time period, excluding singular extrema (assuming high consumption for injection (exit VG) and low consumption for withdrawal (entry VG))

(\*\*) based on a statistical evaluation of historical consumption data in the respective time period, excluding singular extrema (assuming low consumption for injection (exit VG) and high consumption for withdrawal (entry VG))

- ▶ Publication of the amended IAMP including DA (based on draft evaluation of the capacity restrictions) on the AGGM website (by end of November 2020)
- ▶ Confirmation of the announced maintenance activities in DA for 2021, including AGGM-ID, to the respective system operator by AGGM (Dec. 2020)
- ▶ Final evaluation of the capacity restrictions in DA as soon as the definitive capacity data for 2021 are available → amendment of the IAMP and publication of the respective UMMs by AGGM till mid of January 2021

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# Abbreviations

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ACER	Agency for the Cooperation of Energy Regulators
ESD	Emergency Shut Down
DA	Distribution Area
DAM	Distribution Area Manager
DFP	dynamically firm part
DSO	Distribution System Operator
IAMP	Integrated Annual Maintenance Plan
MA	Market Area
MAM	Market Area Manager
PSO	Production System Operator
REMIT	Regulation on Wholesale Energy Market Integrity and Transparency
SC	standard capacity
SSO	Storage System Operator
TS	Transmission System
TSO	Transmission System Operator
UMM	Urgent Market Message
VTP	Virtual Trading Point