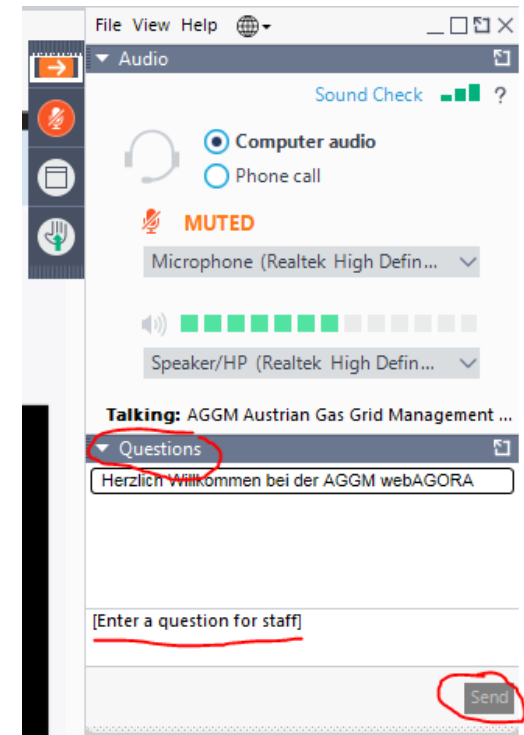




AGGM Austrian Gas Grid Management AG

AGGM webAGORA

- ▶ AGGM's AGORA meetings since 2012 – information and discussion events
- ▶ AGGM webAGORA as add-on – web-based, flexible for short compact information
- ▶ Organizational issues
 - ▶ Presentation will be published on AGGM website.
 - ▶ Ask questions during the webAGORA, using “Questions” pane on the Control Panel – not publicly visible, treated anonymously
 - ▶ We'll try to answer some questions directly after the presentation.
 - ▶ All questions and answers will be summarized and published in a separate Q&A document.
 - ▶ Get in touch with us directly in case of questions after the webAGORA!





AGGM Austrian Gas Grid Management AG

AGGM webAGORA

Regulatory Changes 2018

▶ Agenda

- ▶ Transmission of data – AS4
- ▶ Lead time 1 hour for DA, VTP and Storage

▶ Transmission of data

▶ *Gas Market Code - Chapter 3 (2.2)*

Pursuant to Article 21 Interoperability Network Code (INT NC) all communication between TSOs or the VTP operator and BGRs must use the Edig@s-XML format and the AS4 transmission protocol from February 1st 2018

▶ IMBNOTs from MAM

- only via AS4
- Download from AGGM-platform (in process)

▶ Communication with DAM is not affected until April 1st 2019

- AGGM will provide AS4 additionally

▶ Lead time 1 hour

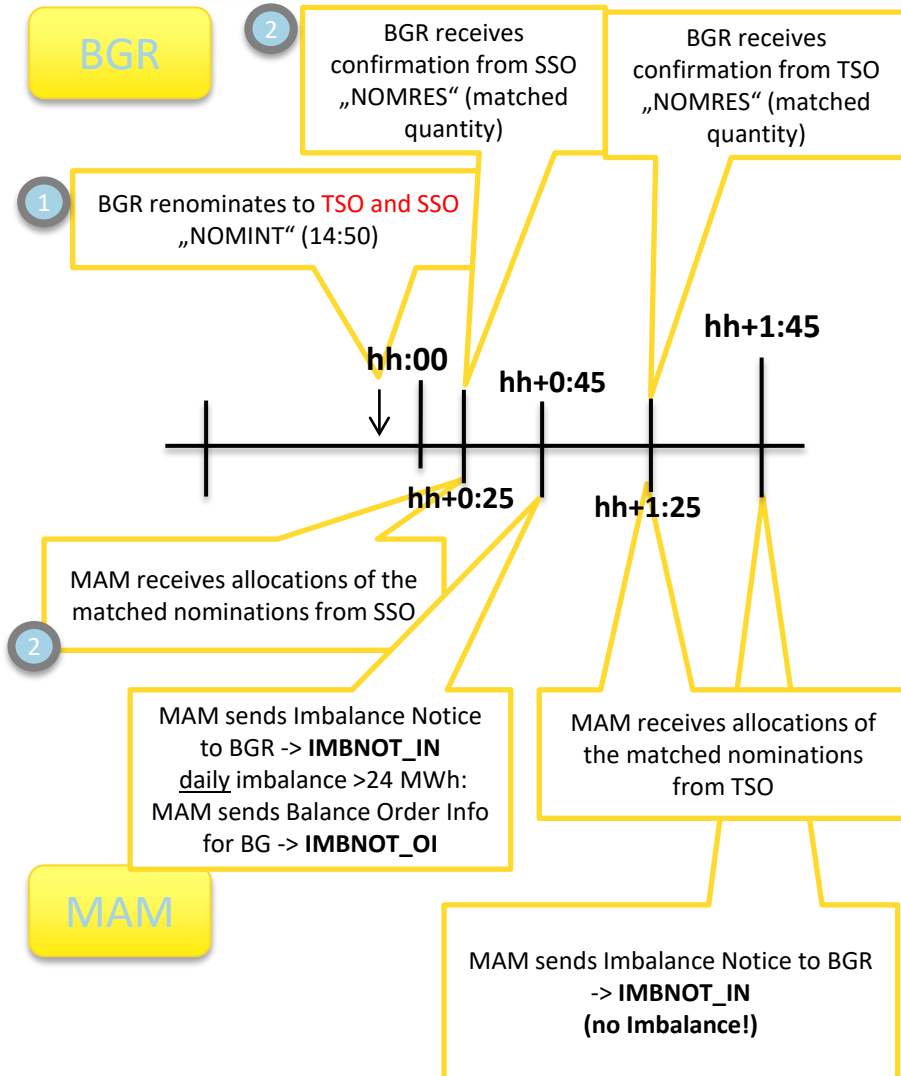
- ▶ *Gas Market Ordinance sec.34 (3) coming into force **April 1st 2018***
- ▶ Lead time at interconnection points in transmission and distribution system **2 hours**
- ▶ Lead time for Virtual Trading Point, Storage & Distribution Area **1 hour**
- ▶ The advantage of this new rule is that BGRs can react faster on changing demands
- ▶ It is usable for BGRs with access to storage but also for all others via VTP

▶ Due to the shorter lead time

- ▶ MAM gets allocations from DAM, VTP and Storage within 20 minutes after full hour
- ▶ Communication between VTP, SSO, DAM und MAM will be faster
- ▶ BUT the allocations from TSOs have still one hour delay because of the matching process with neighboring TSOs

- ▶ MAM receives allocations from SSO, DAM, VTP in the next hour
- ▶ MAM receives allocations from TSO in the hour after next
- ▶ Sending (balanced) Nominations to TSOs and other System Operators at the same time **causes an imbalance**
 - ▶ This Imbalance lasts **for one hour** until the TSO allocations are processed
 - ▶ *Example 1*
- ▶ Recommendation for BGRs:
 - ▶ 1 hour delay for SSO, DAM, VTP nominations
 - ▶ *Example 2*

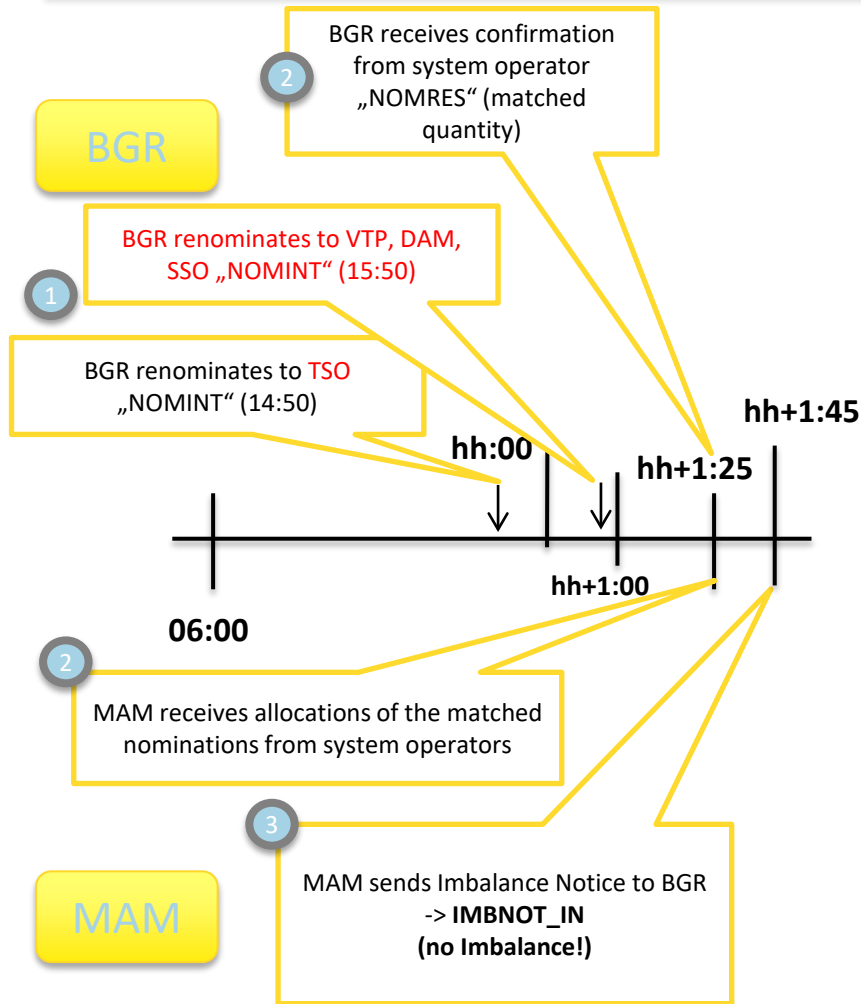
Example 1: „Balanced“ Renomination without delay



	Renomination Storage Entry	Renomination TSO Exit	Allocation Storage at MAM	Allocation TSO at MAM	Calculated Imbalance
	Version 2	Version 2			
06:00	10.000	10.000	10.000	10.000	0
07:00	10.000	10.000	10.000	10.000	0
08:00	10.000	10.000	10.000	10.000	0
09:00	10.000	10.000	10.000	10.000	0
10:00	10.000	10.000	10.000	10.000	0
11:00	10.000	10.000	10.000	10.000	0
12:00	10.000	10.000	10.000	10.000	0
13:00	10.000	10.000	10.000	10.000	0
14:00	10.000	10.000	10.000	10.000	0
15:00	10.000	10.000	10.000	10.000	0
16:00	10.000	10.000	10.000	10.000	0
17:00	15.000	15.000	15.000	15.000	0
18:00	15.000	15.000	15.000	15.000	0
19:00	15.000	15.000	15.000	15.000	0
20:00	15.000	15.000	15.000	15.000	0
21:00	15.000	15.000	15.000	15.000	0
22:00	15.000	15.000	15.000	15.000	0
23:00	15.000	15.000	15.000	15.000	0
00:00	15.000	15.000	15.000	15.000	0
01:00	15.000	15.000	15.000	15.000	0
02:00	15.000	15.000	15.000	15.000	0
03:00	15.000	15.000	15.000	15.000	0
04:00	15.000	15.000	15.000	15.000	0
05:00	15.000	15.000	15.000	15.000	0

Example: hh:00 = 15:00 → hh+1:25 = 16:25

Example 2: „Balanced“ Renomination with delay

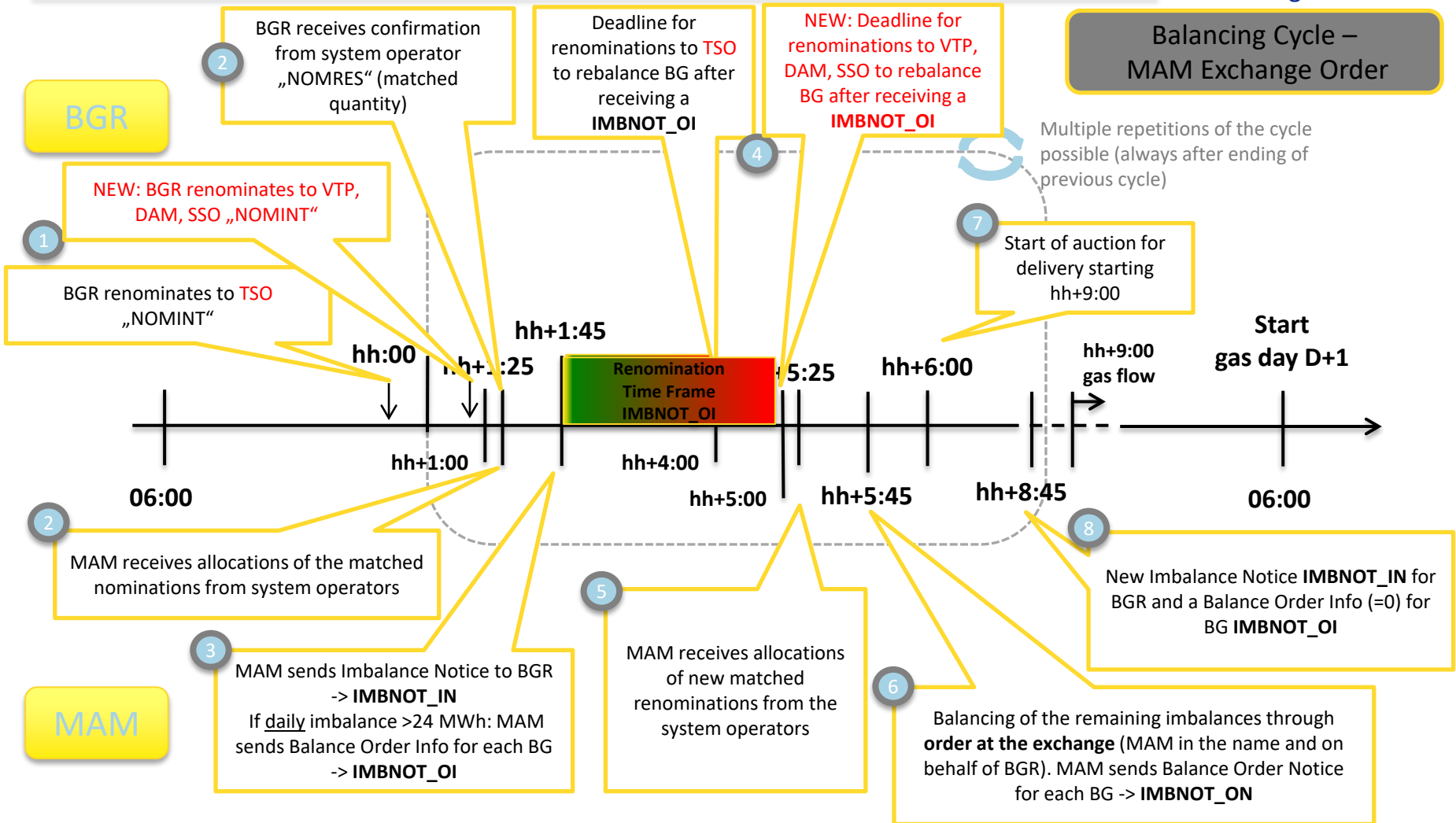


	Renomination Storage Entry	Renomination TSO Exit	Alocation VTP at MAM	Alocation TSO at MAM	Calculated Imbalance
	Version 2	Version 2			
06:00	10.000	10.000	10.000	10.000	0
07:00	10.000	10.000	10.000	10.000	0
08:00	10.000	10.000	10.000	10.000	0
09:00	10.000	10.000	10.000	10.000	0
10:00	10.000	10.000	10.000	10.000	0
11:00	10.000	10.000	10.000	10.000	0
12:00	10.000	10.000	10.000	10.000	0
13:00	10.000	10.000	10.000	10.000	0
14:00	10.000	10.000	10.000	10.000	0
15:00	10.000	10.000	10.000	10.000	0
16:00	10.000	10.000	10.000	10.000	0
17:00	15.000	15.000	15.000	15.000	0
18:00	15.000	15.000	15.000	15.000	0
19:00	15.000	15.000	15.000	15.000	0
20:00	15.000	15.000	15.000	15.000	0
21:00	15.000	15.000	15.000	15.000	0
22:00	15.000	15.000	15.000	15.000	0
23:00	15.000	15.000	15.000	15.000	0
00:00	15.000	15.000	15.000	15.000	0
01:00	15.000	15.000	15.000	15.000	0
02:00	15.000	15.000	15.000	15.000	0
03:00	15.000	15.000	15.000	15.000	0
04:00	15.000	15.000	15.000	15.000	0
05:00	15.000	15.000	15.000	15.000	0

Example: hh:00 = 15:00 → hh+1:25 = 16:25

- ▶ The temporary imbalance lasts for one hour
- ▶ Hourly „Balanced“ Renominations without delay (Example 1) for more than 4 consecutive hours can cause a balancing trade by MAM

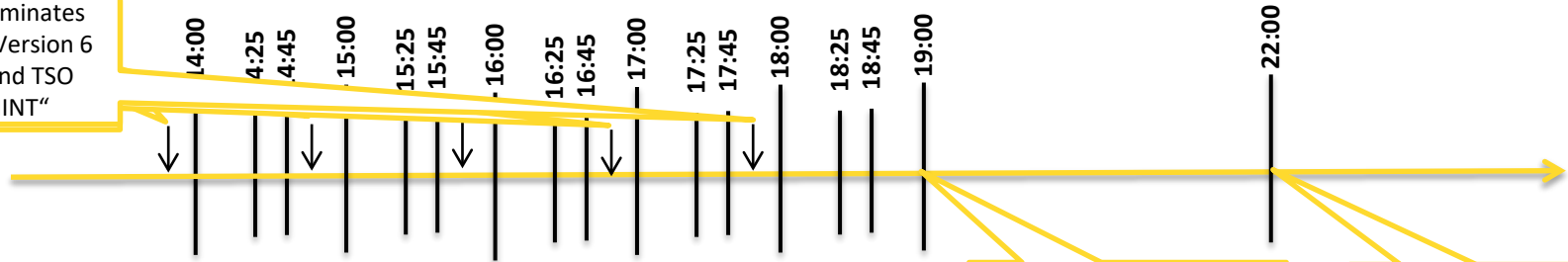
Market Area Balancing



Example: hh:00 = 15:00 → hh+1:25 = 16:25

Renomination without delay in consecutive hours

BGR renominates balanced Version 6 to SSO and TSO „NOMINT“



Balancing order in auction at 18:59

22:00 Start gas delivery from Balancing order

	Renomination Storage Entry Version 6	Renomination TSO Exit Version 6	Alocation Storage at MAM	Alocation TSO at MAM	Calculated Imbalance
06:00	10.000	10.000	10.000	10.000	0
07:00	10.000	10.000	10.000	10.000	0
08:00	10.000	10.000	10.000	10.000	0
09:00	10.000	10.000	10.000	10.000	0
10:00	10.000	10.000	10.000	10.000	0
11:00	10.000	10.000	10.000	10.000	0
12:00	10.000	10.000	10.000	10.000	0
13:00	10.000	10.000	10.000	10.000	0
14:00	10.000	10.000	10.000	10.000	0
15:00	10.000	10.000	10.000	10.000	0
16:00	15.000	15.000	15.000	15.000	0
17:00	22.000	22.000	22.000	15.000	0
18:00	31.000	31.000	31.000	31.000	0
19:00	42.000	42.000	42.000	42.000	0
20:00	55.000	55.000	55.000	42.000	13.000
21:00	55.000	55.000	55.000	42.000	13.000
22:00	55.000	55.000	55.000	42.000	13.000
23:00	55.000	55.000	55.000	42.000	13.000
00:00	55.000	55.000	55.000	42.000	13.000
01:00	55.000	55.000	55.000	42.000	13.000
02:00	55.000	55.000	55.000	42.000	13.000
03:00	55.000	55.000	55.000	42.000	13.000
04:00	55.000	55.000	55.000	42.000	13.000
05:00	55.000	55.000	55.000	42.000	13.000
sum					130.000

MAM sends Imbalance Notice to BGR -> **IMBNOT_IN**
daily imbalance >24 MWh:
MAM sends Balance Order Info for BG -> **IMBNOT_OI**

Still Imbalance after „Time for rebalance“ → **IMBNOT_ON**
Balancing Trade at 18:59,
delivery start at 22:00

- ▶ Balanced Nominations at the same time for different „lead time types“ will cause an imbalance for one hour
- ▶ To avoid this imbalance it is necessary to send Nominations for DA, VTP and Storage one hour after TSO nominations
- ▶ Hourly „Balanced“ Renominations without delay (Example 1) for more than 4 consecutive hours can cause a balancing trade by MAM

Questions and Answers

AGGM Austrian Gas
Grid Management AG



- ▶ MAM...Market Area Manager
- ▶ TSO...Transmission System Operator
- ▶ SSO...Storage System Operator
- ▶ DA...Distribution Area
- ▶ DAM...Distribution Area Manager
- ▶ VTP...Virtual Trading Point
- ▶ BGR...Balance Group Responsible

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