



















VIRTUALITY: THE BASIS FOR REALITY Tariffs and time factors

Tariff methodology

- Tariff calculation / cost allocation is based on the reference price methodology "virtual point based approach (Var. B)"
- Capacity weighted distance including E/E split
- Calculation for Market Area East
- Stepwise approach to reach results in order to have minor impact on tariffs
 - Nearly no increase of tariffs
 - Adjustments mainly downwards
- GSNE-VO dated 22/12/16 in detail





VIRTUALITY: THE BASIS FOR REALITY Tariffs and time factors

		Capacity		Tariffs	Tariffs	changes to
Cluster	Name	quality	Destination	GSNE-VO	GSNE-VO	GSNE-VO
		quanty		2013	2017	2013
Entry AT	Arnoldstein	FZK	-	1,39	1,30	-6%
Entry AT	Arnoldstein	DZK	Murfeld	0,56	0,62	11%
Entry AT	Baumgarten	FZK	-	0,70	0,77	10%
Entry AT	Oberkappel	FZK	-	1,39	1,30	-6%
Entry AT	Überackern	FZK	-	1,54	1,30	-16%
Entry AT	Überackern	DZK	Oberkappel	1,39	1,17	-16%
Exit	Arnoldstein	FZK	-	5,26	4,63	-12%
Exit	Murfeld	FZK	-	4,16	3,33	-20%
Exit Distribution Area	Cluster DA	FZK	-	0,65	0,53	-18%
Exit Distribution Area	Cluster DA	DZK	Baumgarten	0,63	0,48	-24%
Exit Distribution Area	Cluster DA	DZK	Oberkappel	0,63	0,48	-24%
Exit Distribution Area	Kärnten	FZK		0,65	4,20	546%
Exit East	Baumgarten	FZK	-	1,15	1,12	-3%
Exit East	Storage MAB	FZK	-	0,36	0,40	11%
Exit East	Mosonmagyarovar	FZK	-	1,92	1,12	-42%
Exit East	Petrzalka	FZK	-	1,97	1,12	-43%
Exit West	Oberkappel	FZK	-	4,21	3,44	-18%
Exit West	Überackern	FZK	-	4,21	3,44	-18%
Exit West	Überackern	DZK	Oberkappel	2,99	2,99	0%
Exit West	Storage 7F	FZK	-	0,36	0,40	11%





VIRTUALITY: THE BASIS FOR REALITY Tariffs and time factors (multipliers)

Product type Entry	GSNE-VO 2013	GSNE-VO 2017	Product type Exit	GSNE-VO 2013	GSNE-VO 2017
Yearly	1,000	1,000	Yearly	1,000	1,000
Quarterly	1,250	1,025	Quarterly	1,250	1,050
Monthly	1,500	1,050	Monthly	1,500	1,150
Day-Ahead	max. 1	1,200	Day-Ahead	1,000	1,300
Within-Day	1,000	1,200	Within-Day	1,000	1,300

- Entry/Exit time factors for Quarterly and Monthly Products applicable as of 01 January 2017
- Exit time factors for Day-Ahead and Within-Day Products applicable as of 01 January 2017
- > Entry time factors for Day-Ahead and Within-Day Products applicable as of 01 October 2017
- Until 01 October 2017 an Entry time factor of 1.0 applies for Day-Ahead and Within-Day Products





VIRTUALITY: THE BASIS FOR REALITY Tariffs and time factors

Impact of TAR NC in Austria

- Entry into force by April 2017
- Stepwise publication requirements

Tariff information, capacity data, probability of interruption etc.

Send information to ENTSOG (via transparency platform) by end of 2017

ENTSOG sends information to ACER by 31.03.2018

Full entry into force of TAR NC by 31.05.2019

Send information on compliance by end of 2019 to ENTSOG

ENTSOG sends information to ACER by 31.03.2020

- Publication of tariffs for the new regulatory period from 2021 by early June 2020 before start of yearly auctions
- Publication of reference prices methodology and input data by early December 2020

Input data: revenues resp. allowed revenues, RAB, investments, OPEX, incentive mechanism, E/E-split, cross-border/domestic revenue split etc.

Periodic consultation especially for the reference price methodology is foreseen (at least every 5 years)





VIRTUALITY: THE BASIS FOR REALITY Tariffs and time factors

Transparency

- Transparency requirements are high
- For later discussion in the workshops:
- Your expectations?

Quality measurement of (national) tariff methodology

Incentive regulation for high quality, e.g. customer satisfaction



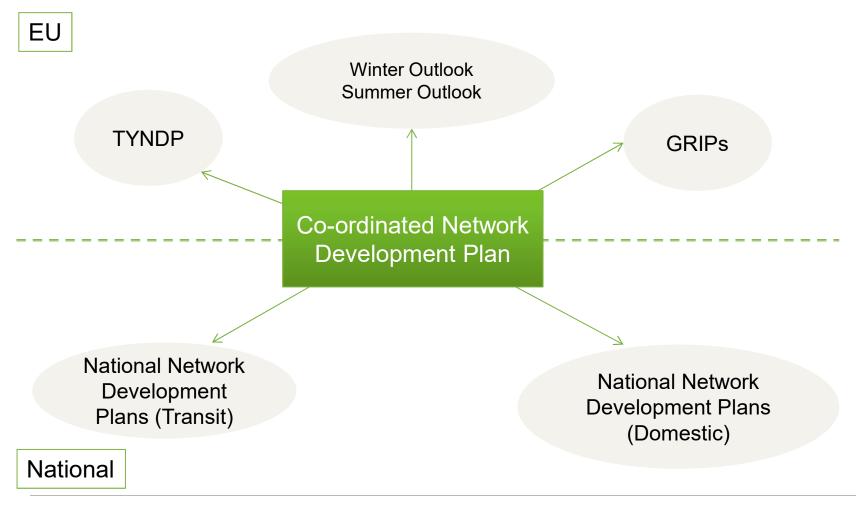








VIRTUALITY: THE BASIS FOR REALITY Network Development Planning

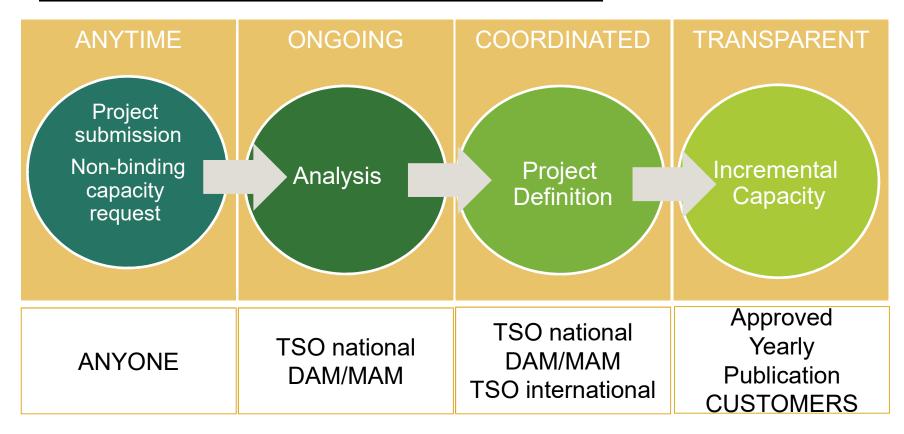






VIRTUALITY: THE BASIS FOR REALITY Network Development Planning

From Market Survey to Incremental Capacity







VIRTUALITY: THE BASIS FOR REALITY Network Development Planning

- National impact of new CAM NC (EIF date 6th April 2017)
- Market Demand Assessment (Report)
 - Non-binding request 4th April to 30th May
 - Publication of report by 27th July (including project perspective)
- Enhanced coordination with adjacent TSOs
 - Design phase following the report
 - Consultation planned from 6th September 3rd October
- NRA publishes the CNDP by mid of December



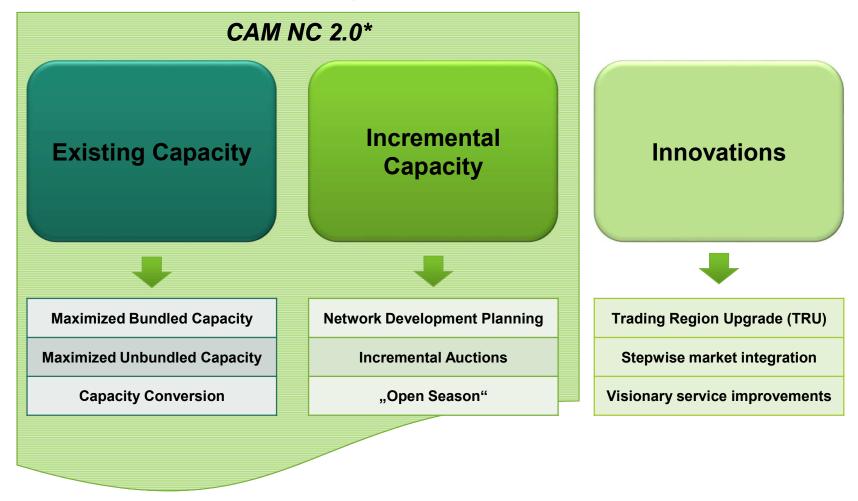








VIRTUALITY: THE BASIS FOR REALITY Business Developments

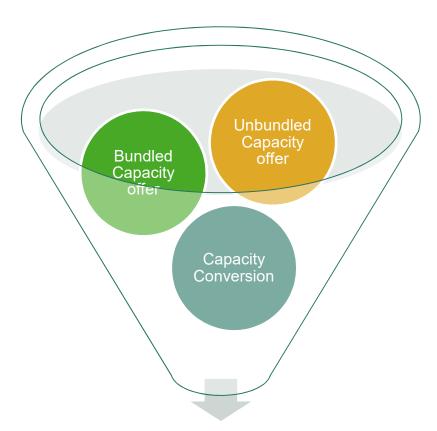


^{*}Commission Regulation (EU) 2017/459 of 16 March 2017 establishing a network code on capacity allocation mechanisms in gas transmission systems





Business Developments – Existing Capacity



Maximizing possibilities

	IP	
	Entry	Exit
Contracted Capacity Y2	30	50
Available Capacity Y2	100	70
Bundled Capacity offer Y2	70	70
Unbundled Capacity offer Y2	20	0

Example A: Network user having no capacity at both sides of IP; Demand: 70 Bundled

Participation in Auction for Bundled Capacity

Example B: Network user holding mismatched capacity (Entry 20/Exit 30); Demand: 10 Entry Unbundled

Participation in Auction for Unbundled Capacity

Example C: Network user holding mismatched capacity (Entry 30/Exit 20); Demand: 10 Exit Unbundled

 Participation in Auction for Bundled Capacity + Capacity Conversion





Business Developments – Incremental Capacity

Incremental Capacity The standard mechanism

Incremental Capacity "Open Season Procedure"

Preconditions

Non Binding Demand received

Non Binding Demand received Involves 2 or more En/Ex systems Involves bids along several IPs Bids with a duration of >1 year requested

Difference

Process performed on regular basis
Process precisely defined in CAM NC 2.0
Standard Allocation mechanisms (Ascending Clock)
Little room for indivual solution

Occasion-related process
Alternative allocation mechanisms allowed
Extended booking horizon allowed

Our experience so far

286 Incremental Auctions conducted in last 3 years

Only 4 auctions with binding commitments

Time consuming process (e.g. ROHUAT)

More flexibility leads to more need for coordination

Conditional bidding allowed

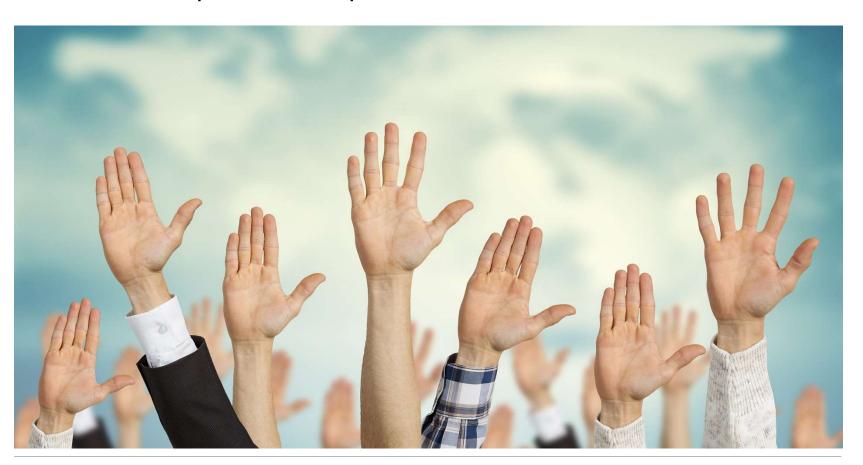
High dependency on involved partners, especially due to bundling issues





Business Developments – Incremental Capacity

– Incremental process or Open Season?







Business Developments – Incremental Capacity

ROHUAT Open Season Procedure

Core information

Project sponsors: GCA, FGSZ, Transgaz

IP 1: Csanádpalota

IP2: Mosonmagyaróvár

Offered Gas Years: 15

Period: GY 2022/23 - GY 2036/37

Minimum Bookable Capacity: 1 kWh/h/y

Planned commissioning: 01 October 2022

Tariffs: see Open Season Rulebook

ROHUAT Open Season Procedure /
Austrian part

Core information

Offered capacity: 5,740,470 kWh/h

Direction & Point: Entry Mosonmagyaróvár

Quality: FZK

Price structure:

Floating reserve price*	0.77 EUR/kWh/h/y
Fixed supplement**	3.31 EUR/kWh/h/y
Reserve Price	4.08 EUR/kWh/h/y

^{**}For additional explanations regarding the evolution of the reserve price supplement with capacity bookings beyond considered threshold, refer to "Economic Viability @ Gas Connect Austria" in section 4.2 and note that value may also change, e.g. depending on revision of technical scope of the project.





^{*}The tariff methodology for TSOs in the Austrian Market Area East can be accessed on the homepage of the Austrian Regulator E-Control: https://www.e-control.at/documents/20903/388512/Methode+2017-2020+Fernleitungsnetzbetreiber+Gas_TSO_20161212.pdf/e5fa1729-efc0-ab06-06a3-2dd7088ed7c8

Business Developments – Incremental Capacity

ROHUAT Open Season Procedure

- ➤ Shipper Event took place on 06 March in Budapest
- Preparation of Open Season Rulebook & Contratual framework in its final stage
- ➤ All material related to the ROHUAT Open Season Process is available under:
 <u>www.gasconnect.at</u> → Network → Projects → GCA-Mosonmagyaróvár
- Continuous information update via newsletter





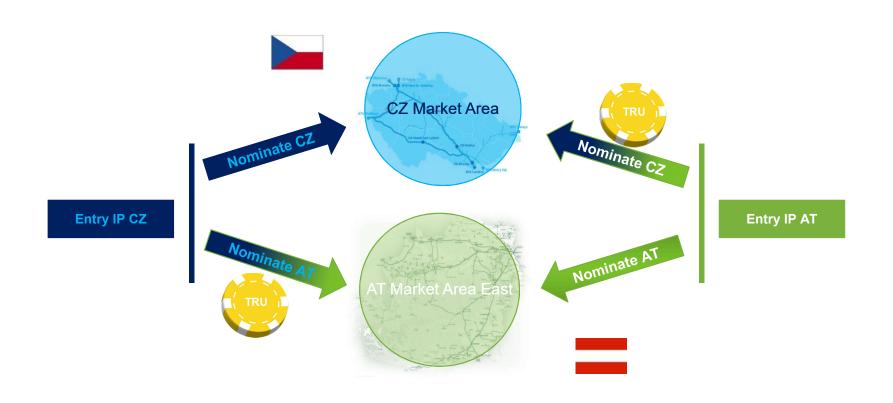
➤ What is the Trading Region Upgrade (TRU) idea?



Capacity	Upgrade	Access to Market AT and/or CZ
 Basic product IP-related Allocation & nomination required Allocation to Balance Group (BG) Precondition to use TRU 	 Option (no capacity product) Not IP-related Solely allocation to BG required Not competing with capacity Standalone useless Useable with all Entry points to the transmission network 	 Access to CZ and/or AT hub Firmness depending on capacity quality











Fostering Market Integration between AT and CZ by offering more possibilities in terms of connectivity

"One Stop Shop" for customer

Target: Efficient use of existing interconnections

Supporting market integration through stepwise, market driven approach

No capacity product, but option

Creating new innovative services in a **minimally invasive** way

Simultaneous access to AT and/or CZ VTP

No bundling dependency, **certainty** on connection availability

No additional investments necessary, i.e. no incremental capacity required





➤ Current working status on TRU* (for the pilot phase, i.e. GY 2017/2018)

TRU allocation

Separate bid submission window & bid form

Binding Demand to be expressed in kWh/h/year

Indicate if "fill or kill principle"- principle shall apply

Possibility to indicate balance groups for TRU usage

TRU will be marketed only at the reserve price

Bids are ranked according to willingness to pay in descending order

Higher willingness to pay has precedence over lower willingness to pay

In case of overdemand, pro rata allocation is applied

*status on 29.03.2017, subject to agreement of all involved TSOs and NRAs





Business Developments – Innovations

TRU A	T/CZ Bidding Form	
TRU Quantity Period from Period to Balance group(s)	01.10.2017 01.10.2018	ional
Price in €/kWh/h/a Contact Details	<u>prefilled</u>	
Note: Participants agree to pro rata alloc	cation in case demand > supply	





Current working status on TRU* (for the pilot phase, i.e. GY 2017/2018)

TRU allocation

Separate bid submission window & bid form

Binding Demand to be expressed in kWh/h/year

Indicate if "fill or kill principle"- principle shall apply

Possibility to indicate balance groups for TRU usage

TRU will be marketed only at the reserve price

Bids are ranked according to willingness to pay in descending order

Higher willingness to pay has precedence over lower willingness to pay

In case of overdemand, pro rata allocation is applied

TRU usage

TRU has to be allocated to a balance group

Allocation to be done in TSOs back end systems

TRU user must be an approved User in the Czech Republic and Austrian market

Lead time for first operational set up: 5 working days

Lead time for change in allocation: 2 hours prior to service

Lead time for renomination: 2/3 hours prior to service

Exchange formats to be used: edigas 4.0 or higher version

*status on 29.03.2017, subject to agreement of all involved TSOs and NRAs



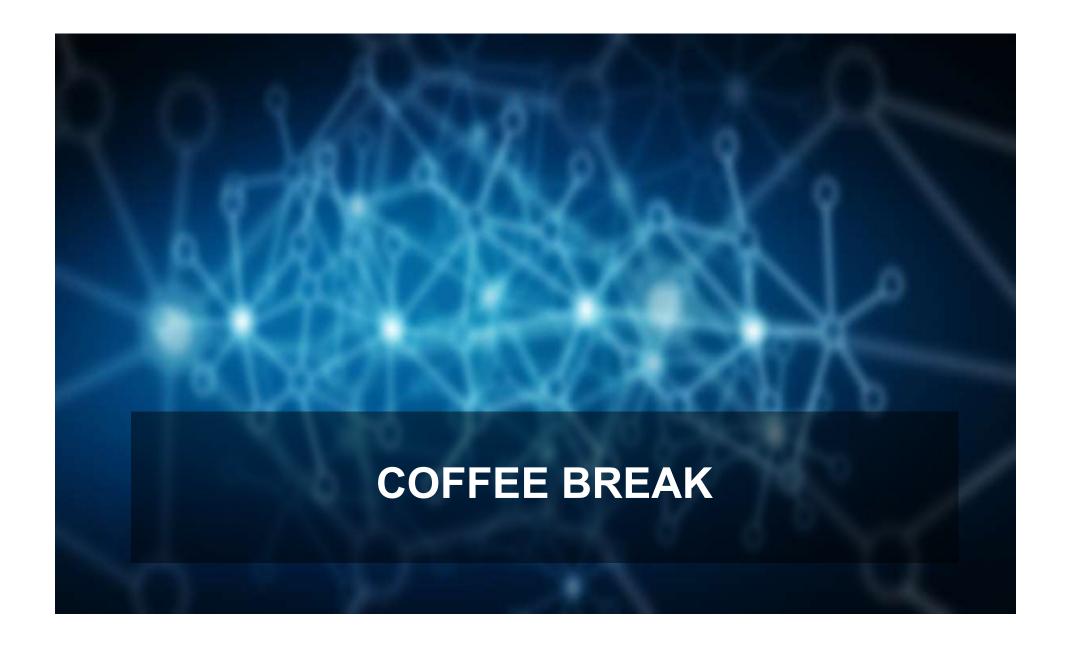


- > TRU Next steps
- TRU Pilot Phase currently in preparation
- As soon as all commercial and operational issues are agreed between the involved parties, following documents/information is planned to be published:
 - □ Q&A document resulting from the public consultation
 - TRU service description (allocation details, usage details)
 - □ TRU service contract
 - □ TRU bidding form
 - Newsletter (announcement of TRU bidding window)

*status on 29.03.2017, subject to agreement of all involved TSOs and NRAs

















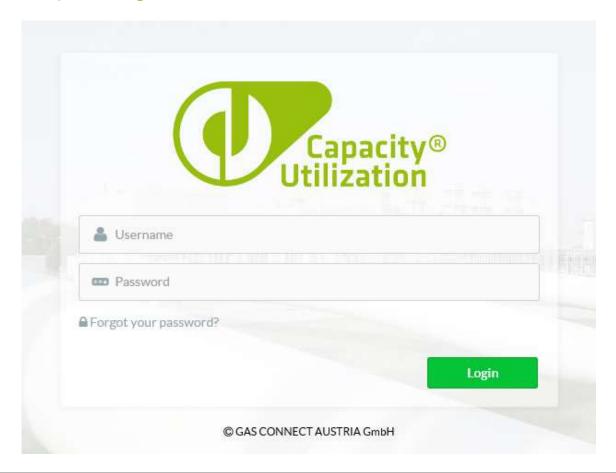






THE FACE OF REALITY Capacity Utilization – Login

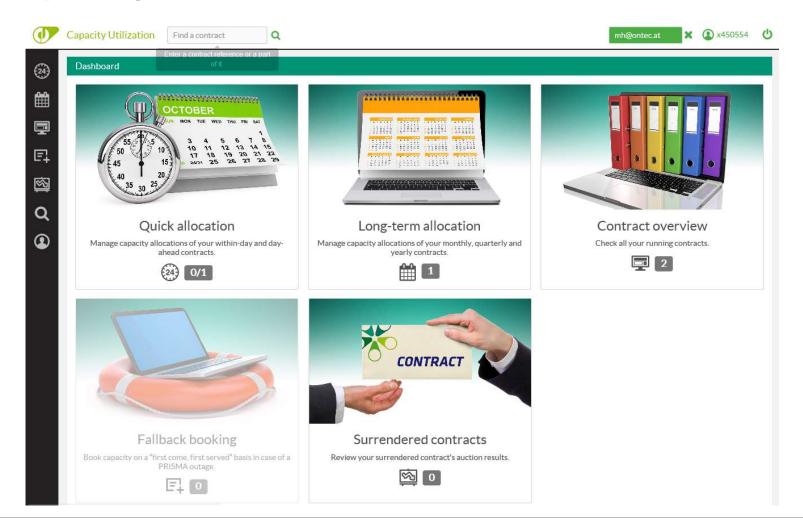
Address: https://cu.gasconnect.biz







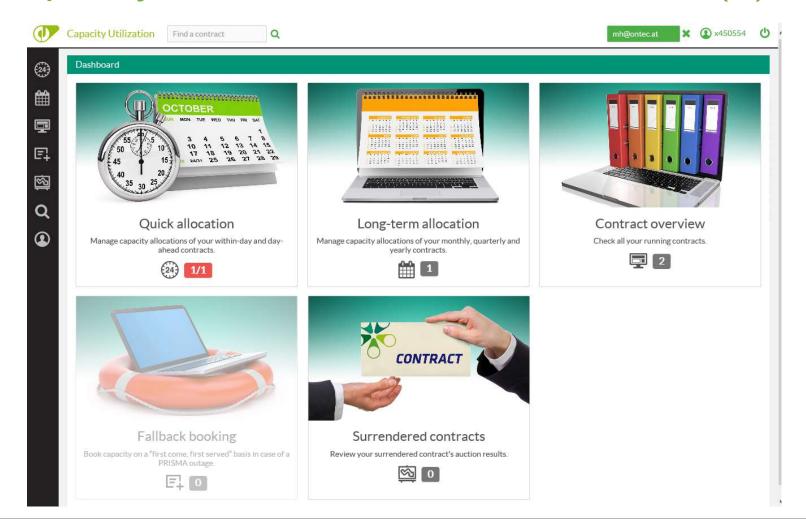
THE FACE OF REALITY Capacity Utilization - Dashboard







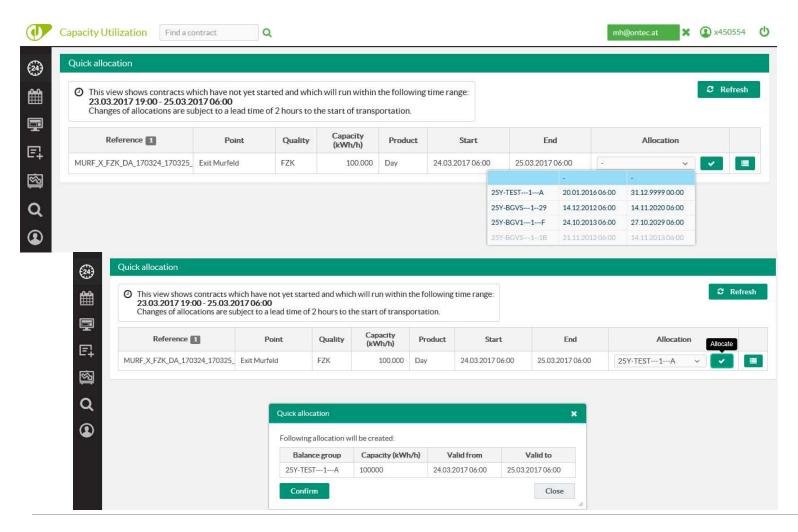
THE FACE OF REALITY Capacity Utilization – Quick Allocation (1)







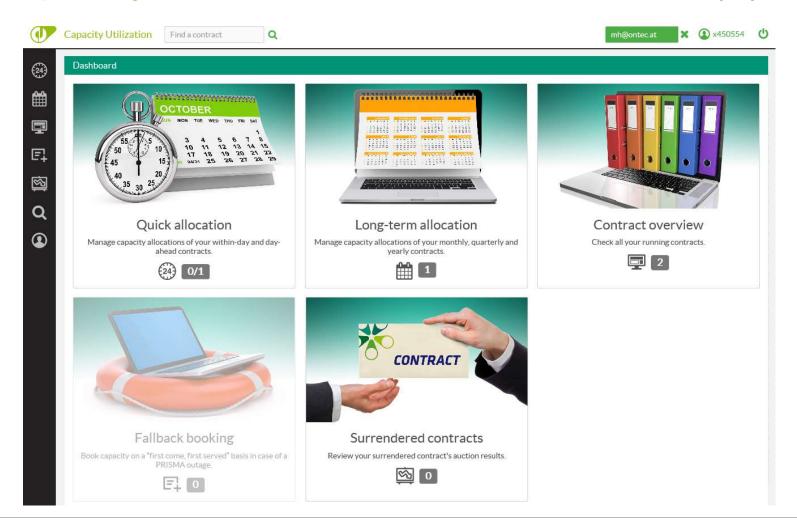
THE FACE OF REALITY Capacity Utilization – Quick Allocation (2)







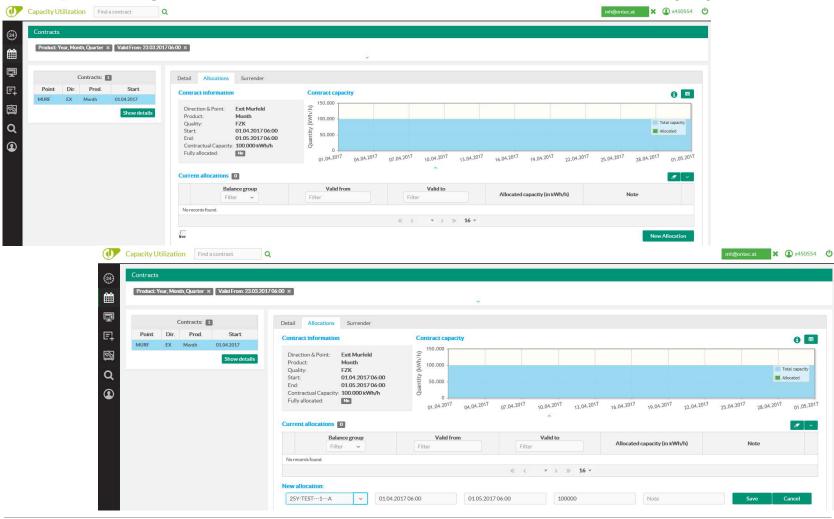
THE FACE OF REALITY Capacity Utilization – Quick Allocation (3)







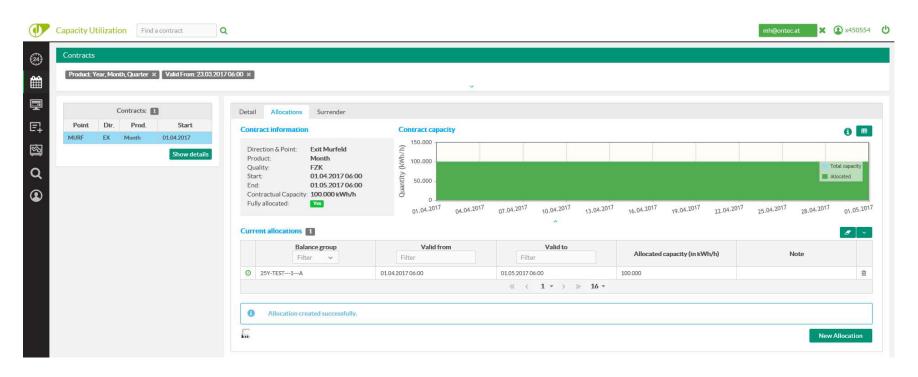
THE FACE OF REALITY Capacity Utilization – LT Allocation (1)







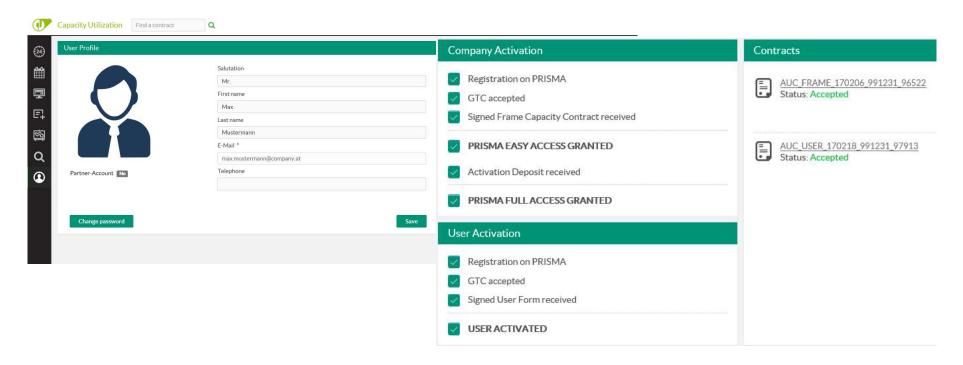
THE FACE OF REALITY Capacity Utilization – LT Allocation (2)







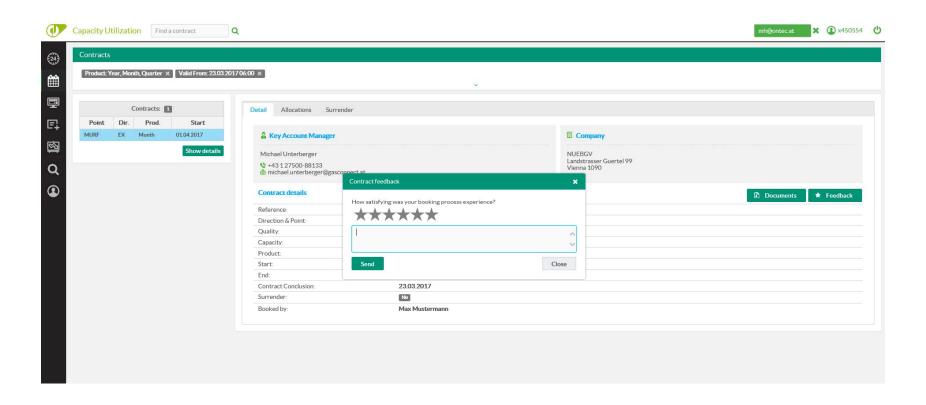
THE FACE OF REALITY Capacity Utilization – Status







THE FACE OF REALITY Capacity Utilization – Did you know, that...













THE FACE OF REALITY Booking platforms – Auction calendar

	Auction calendar valid as of coming into force CAM NC 2.0						
	Within Day	Day ahead	Rolling Monthly	Rolling Quarterly	Yearly		
How often?	24 per day	1 per day	1x per month for subsequent month	4x per year for 4/3/2/1 quarters	1x per year for 15 years		
Firm When?	hh:00 – hh:30	16:30-17:00	3rd Monday of each month 1st Round 09:00 – 12:00	1st Monday of AUG/NOV/FEB/MAY 1st Round 09:00- 12:00	1st Monday of March 1st Round 09:00-12:00		
Interruptible When?	hh:00 – hh:30	17:30-18:00	4th Monday of each month 1st Round 09:00 – 12:00	1st Monday of SEP/DEC/MAR/JUN 1st Round 09:00- 12:00	1st Monday of April 1st Round 09:00-12:00		
How many possibilities in 2016?	217,683	11,929	369	117	332		





THE FACE OF REALITY Booking platforms – Where to auction which capacity? – Current status

Interconnection Point	PRISMA	RBP
Baumgarten GCA	Y, Q, M, DA, WID	
Baumgarten WAG	Y, Q, M, DA, WID	
Murfeld	Y, Q, M, DA, WID	
Oberkappel	Y, Q, M, DA, WID	
Überackern	Y, Q, M, DA, WID	
Petrzalka	Y, Q, M, DA, WID	
Mosonmagyarovár	Q, M, DA, WID	Y

- ✓ Project regarding an automated connection ongoing
- ✓ Offer of all runtimes for IP Mosonmagyarovár via RBP -> planned for August 2017



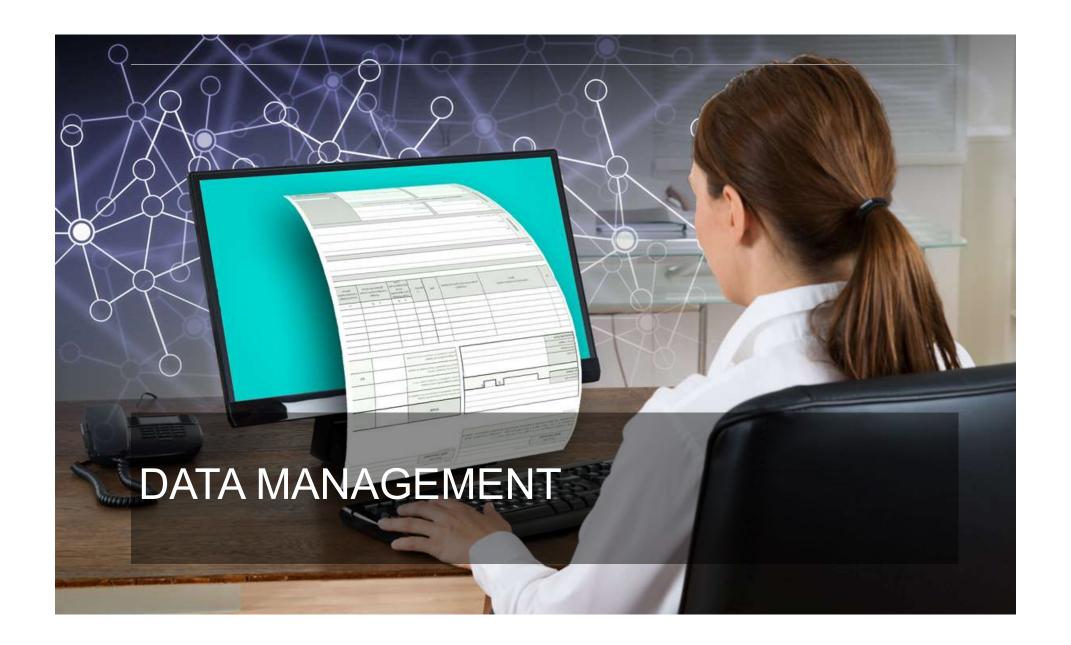


THE FACE OF REALITY Booking platforms – Friday 13th 3th

- ➤ Before 6 February 2017, 9:00: **Timely publication** of auctions
- > Friday 03 March 2017, 15:43: **Resolution** No. 1852/2017 **of MEKH**
 - prohibition of FGSZ to offer any yearly capacities including and beyond 1.10.2019
- > FGSZ removed the capacities from the RBP
- > No other choice for GCA as to acknowledge the removement
 - > only two (!) yearly auctions in a bundled manner
 - > only 13% of available capacities could be offered
 - Very limited offer of unbundled capacities due to CAM NC harmonization











GCA Transparency Information acc.
 Annex I to Regulation (EC) 715/2009

Did you know?

COMPANY NETWORK	MARKET AREA MANAGER	FOR CUSTOMERS	ON SITE	KNOW HOW	NEWS AND MEDIA
Sales Transmission P to-Point	Transparen	ıcy Inform	nation		
Sales Transmission Entry-Exit	Overview of the imp	olemented transp	arency requir	rements	
General Information	Annex I to Regulation 715/2009	n (EC)	ik		
Our principles	3.1.2 a)				
Services	A detailed and compre	hensive	Serv	rices	
Network Development F		erent services	Tariffs and Ta	and the state of the state of	
Tariffs	and their charges		E-Control (GSNE	or directs	
Capacity Utilization	3.1.2 b) u. c) 1.		(dalate)	L-V0)	
Capacity Bulletin Board	Different transportation	on contracts			-
Capacities	and other significant of		Auct	ions	
Auctions	3.1.2 c)				
Maintenance	Network code / stand	ard conditions	Auct	ions	
Contact	Network code / Stand	ard conditions	Auct	ions	
Transparency Informatio	3.1.2 c) 2.				
Customer Events	Specification of releva	nt gas quality	Auctions		
Consultations	parameters		Auctions	10115	





Capacity Data

- ENTSOG Transparency Platform <u>http://transparency.entsog.eu</u>
- Austrian Market Area Manager <u>https://mgm.gasconnect.at/</u>





Auction Data

- PRISMA https://platform.prisma-capacity.eu/
- RBP https://rbp.eu/









- Publications

	ENTSOG TP	MAM Platform
Capacity Usage Data Nomination, Renomination, Allocation, Physical Flow	✓	✓
Gas Quality Data GCV, Wobbe Index	✓	√
Capacity Data Booked, Available Capacity	✓	✓
Interruption Data Curtailed FZK and interrupted UK-Capacity	✓	✓
CMP Data Unsuccessful Requests, Capacities Made available	✓	X
Tariff Data Tariff Information per Point and Direction	✓	X
Non relevant point publication	X	√
Hourly Data publication	✓	✓
Publication Timeframe in months	24	180





Transparency Outlook

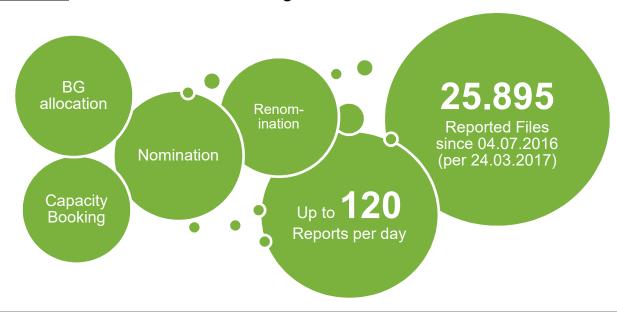
- Publication according to TAR NC
 - Tariffs of the relevant Capacity Products per TSO
 - Single Platform access via ENTSOG Transparency Platform
- Standardized UMM Publication
 - Following REMIT Implementing Acts
 - One Scheme for all Market Participants
 - Automated Acces via "Feed"-Function (RSS or ATOM)
- Additional expectations?





- REMIT Reporting

- In time fulfillment of all 3 REMIT-Phases by GCA
 - Phase 1 07.10.2015: OMP orders and trades
 - Phase 2 07.04.2016: standard contracts, allocations and nominations
 - Phase 3 07.07.2016: backloading of contracts













THE FACE OF REALITY Securities and Invoicing

- Securities

- Forms of Deposit
 - Cash deposit
 - Bank guarantee (Annex 4 and 5 to the Frame Capacity Contract)

Security Deposit

- Guaranteeing capacity products of one month or longer
- Deadline 5 working days after the capacity acquisition, latest the day before the transportation start
- Deposit value:

Month Ahead Capacity: 1 x Monthly fee

Quarterly Capacity: 2 x Monthly fee

Yearly Capacity: 3 x Monthly fee





THE FACE OF REALITY Securities and Invoicing

Invoicing

According to **Article XI** of General Terms and Conditions for Transmission Network Access of GAS CONNECT AUSTRIA GmbH

Types of invoicing

- Day-Ahead and Within-Day products
- Month ahead, quarterly and yearly products

Monthly, Quarterly and Yearly capacity products

capacity p

Day-Ahead and Within-Day capacity products

31.



5.



15.Day-Ahead and Within-Day capacity products





THE FACE OF REALITY Securities and Invoicing

- Invoicing

- Relevant facts
 - Due date 15th of the month after the transportation service
 - In case of missed deadline:
 - Reminder and payment interests
- Important contribution from system users side
 - Maintaining accurate data on PRISMA Platform
 - Up to date bank and contact details
- Feedback in Workshop-Session





