

Storage auction



Additional Yearly Volume – Storage Year 2021-2022



Please keep your microphone muted

AGENDA

> Welcome and way of working

- > Required regulatory documents
- ➤ Planning
- ➤ Product description + Storage tariffs
- > Auction rules
- ➤ Allocation Rules



Welcome and way of working







Questions can be asked <u>in written</u> via the chat and will be addressed at the end of the session



- Slides will be shared after the info session on the webpage of the Auction
- For further questions after this info session, reach out to your key account managers or our mailbox info.storage@fluxys.com



Required regulatory documents for participating the auction

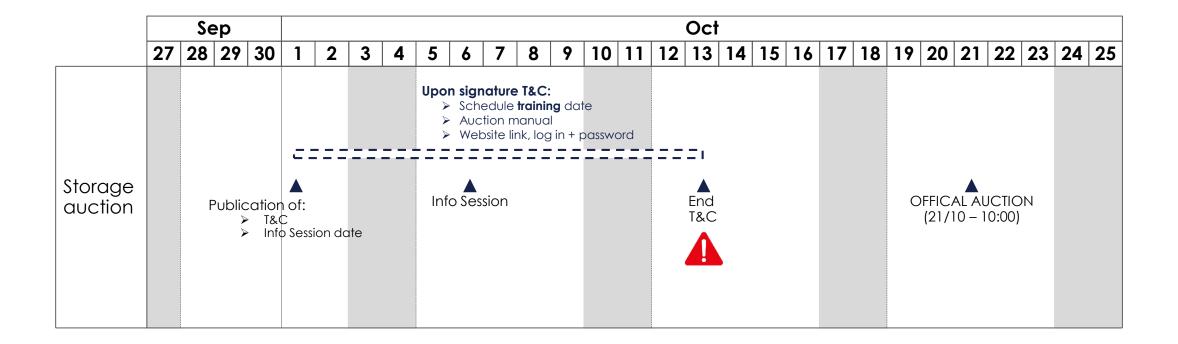


- Request for SSA / ACS
 - ✓ Signature Participant representative (countersigned Fluxys)

- Request TCAW (Terms & Conditions Auction Window)
 - ✓ Signature Participant representative (countersigned Fluxys)

- Power of Attorney (included in TCAW)
 - ✓ Signature Participant representative (Fluxys sends Registration Evaluation -> Schedule 2 of TCAW)
 - ✓ When accepted Fluxys → User-accounts for Bidder(s)

Storage auction - planning



STORAGE PRODUCTS

AUCTION PRODUCT

VOLUME

- Amount: 636 GWh Storage Volume
- Injection & Send Out capacity: No
- DAM/NNS: Yes
- Period: 15/04/2021 14/04/2022
- Volume restrictions: No

DAM/NNS

- 100% interruptible injection & Send out capacity
- DAM = extra capacity provided by Fluxys BE
- NNS = Non-nominated capacity
- Max Daily available capacity is published on the Electronic Data Platform
- The available quantities can change every hour
- Capacity is allocated between storage users on a pro rata basis, according to the requested quantities of DAM/NNS.
- See back-up for historical DAM/NNS availabilities

Storage tariffs

TARIFFS

V O L U M E	Volume = cleared price If cleared price = reserve price -> Volume = Regulated price (~€1,95/MWh)						
I N J + S O	1. SBU rights × No additional inj/so costs × No extra transmission cost, unless when exceeding the SBU inj/so rights (not the case if SSU is capped) ✓ Fuel cost = 1% of injection / 0,5% of send out nomination 2. DAM/NNS Service (100% interruptible) ✓ Injection: €0,39/MWh ✓ Send out: €0,23/MWh ✓ Transmission (only entry in grid): €0,04/MWh ✓ Fuel cost = 1% of injection / 0,5% of send out nomination						

Auction rules - Authentication procedure

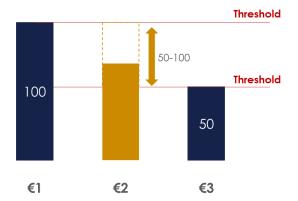
- Auction manual + User-account + Password + URL auction website will be sent to Bidder once required regulatory documents are approved by Storage operator;
- > Training session of the auction platform will be organized with the Bidder(s) separately after approval of regulatory documents;
- > Auction will be scheduled at least 2 days prior to the Auction Start Date;
- Bidders must change their initial Password before the Auction Starts (an E-mail will be sent for every change of password);
- > It is recommended for Bidders to print, prior to the auction, the **FALL-BACK bidding form** in case of a technical problem.
 - !! Once FALL-BACK form is used, specific Bidder needs to continue bidding with the fall-back bidding form.

Auction rules

Basic elements for the Auction process

- Price Setting mechanism = Cleared Price
- Reserve price = proposed Regulated tariff (~€1,95/MWh)
- Multiple Rounds with Ascending Price
- Obligatory Bidding as from start of auction (no bid = 0)
- Bids need to be valid* and are sealed and binding
- Publication of Round Price before each Round
- Publication of total demand of Round after end of each Round

*Valid bid:



Ascending Clock

Start Price = Reserve Price

First Cycle (major price steps):

- Demand first round <= Offer; the auction is conclusive
 Cleared price = Reserve price with Allocated Quantities = Bids
- 2. Demand > Offer; Price increased in steps of €0,2
- 3. Demand < Offer; Price of the previous round is taken to initiate the Second Cycle with smaller price steps

Second Cycle (minor price steps):

- 1. Demand > Offer; Price increased in steps of €0,05;
- 2. Demand = Offer; the auction is conclusive
 Cleared price = Round price with Allocated Quantities = Bids
- 3. Demand < Offer; the auction is conclusive</p>
 Cleared price = Price previous round with allocation through the allocation procedure (see slide 17)
- 4. Demand > Offer but Round price Second Cycle = last Round Price First Cycle

Cleared Price = **last Round price of Second Cycle** with allocation through the allocation procedure (see slide 17)

Demand in First Round <= Offer -> Auction conclusive

Major price step	Bids & Demand							
	Offer	\$1	S2	\$3	Σ			
2,65€	100							
2,55€	100							
2,35€	100							
2,15€	100							
1,95€	100	40	30	20	90			

Demand <= Offer</pre>

- Allocations = Bid Shipper
- Cleared Price = Reserve
 Price

Demand > Offer -> Next Round major Price step

Major price step	Bids & Demand							
	Offer	\$1	\$2	\$3	Σ			
2,65€	100							
2,55€	100							
2,35€	100							
2,15€	100	40	40	60	140			
1,95€	100	40	50	60	150			

Demand > Offer

Price increased with Major
 Price Step (0,2€)

Demand = Offer -> Auction conclusive

Major price step	Bids & Demand								
	Offer	\$1	S2	\$3	Σ				
2,65€	100								
2,55€	100	30	20	50	100				
2,35€	100	35	30	50	115				
2,15€	100	40	40	60	140				
1,95€	100	40	50	60	150				

Demand = Offer

- Allocation = Shippers Bid
- Cleared Price = Round Price

Demand < Offer -> Next Round to Second Price Cycle

Major price step	Bids & Demand							
	Offer	\$1	\$2	\$3	Σ			
2,65€	100							
2,55€	100	20	20	10	50			
2,35€	100	35	30	50	115			
2,15€	100	40	40	60	140			
1,95€	100	40	50	60	150			
	price step 2,65€ 2,35€ 2,15€	price step Offer 2,65€ 100 2,55€ 100 2,35€ 100 2,15€ 100	price step Bio Offer \$1 2,65€ 100 2,55€ 100 2,35€ 100 35 35 2,15€ 100 40	price step Bids & Demail Offer \$1 \$2 2,65€ 100 20 20 2,35€ 100 35 30 2,15€ 100 40 40	price step Bids & Demand Offer \$1 \$2 \$3 2,65€ 100 20 20 10 2,35€ 100 35 30 50 2,15€ 100 40 40 60			

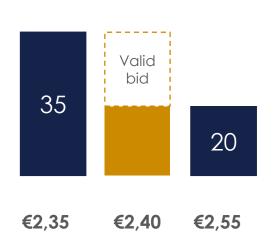
Demand < Offer

 Start price for next cycle is Price of previous round



Demand > Offer -> Next Round minor Price step

Shipper 1:



Major price step	Minor price step	Bids & Demand					
		Offer	S 1	S2	\$3	Σ	
	2,45 €	100					
	2,40€	100	35	20	50	105	
2,35€		100	35	30	50	115	
2,15€		100	40	40	60	140	
1,95€		100	40	50	60	150	

Demand > Offer

 Price increased with Minor Price Step (0,05€)

Valid bids

S1: between 20 and 35

S2: between 20 and 30

S3: between 10 and 50

2,55€ 100	20	20	10	50
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Demand = Offer -> Auction conclusive

Major price step	Minor price step	Bids & Demand						
		Offer	S 1	S2	\$3	Σ		
	2,45 €	100	30	20	50	100		
	2,40€	100	35	20	50	105		
2,35€		100	35	30	50	115		
2,15€		100	40	40	60	140		
1,95€		100	40	50	60	150		

Demand = Offer

- Allocation = Shippers Bid
- Cleared Price = Round Price

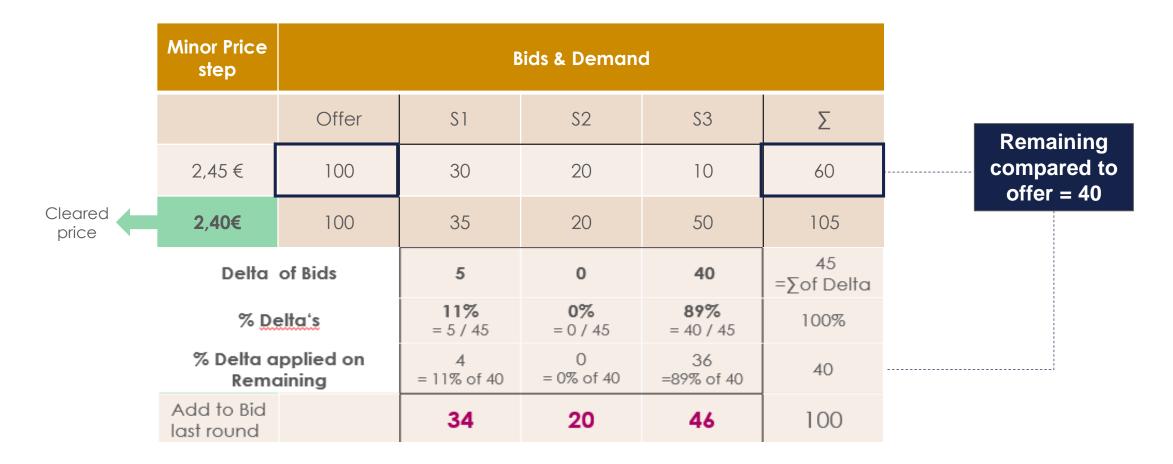
Demand in Second Price Cycle < Offer -> Auction conclusive

Major price step	Minor price step	Bids & Demand					
		Offer	S 1	S2	\$3	Σ	
	2,45 €	100	30	20	10	60	
	2,40€	100	35	20	50	105	
2,35€		100	35	30	50	115	
2,15€		100	40	40	60	140	
1,95€		100	40	50	60	150	

Demand < Offer

- Allocation Procedure
- Cleared Price = Price of previous Round

The Allocation algorithm = Linear interpolation between the last Bids for each shipper

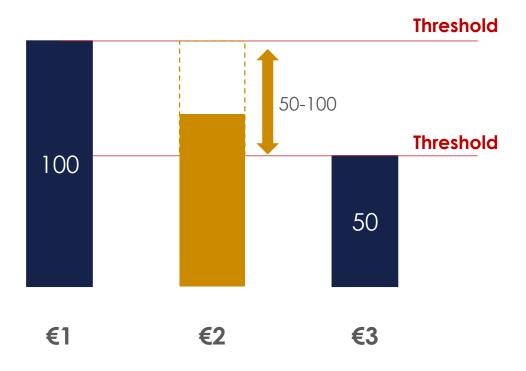


Minimum allocation of 50 000 MWh

Back up



Valid bids





DAM/NNS availabilities

