



AGENDA



- Communication to market
- Inčukalns underground storage withdrawal capacity congestion management
- Information publication:
 - Commercial data
 - Physical flows
- Q & A



COMMUNICATION

NEW APPROACH

TRANSPARENCY IMPROVEMENT

COMMUNICATION TO MARKET

If market participant or applicant addresses a question directly to Conexus (e.g. via e-mail, phone conversation, signed letter) in relation to the interpretation or application of:

- 1) the market rules; or
- 2) the transparency/inside information made already public,

Conexus provides the answer on Conexus website for overall market transparency purposes.

Answer will be also sent directly to market participant or applicant



CONGESTION

REGULATION

- 58. If the system operator detects a physical capacity congestion by 15:00 on the gas day D-1:
 - 58.1 during the withdrawal of natural gas from the storage facility, the system operator shall, within the framework of congestion management, allocate the natural gas withdrawal capacity among the system users by prioritising the bundled capacity product and the two-year bundled capacity product and in proportion to their booked storage capacity, first providing the system user which supplies natural gas to protected customers and only in the amount natural gas to be provided to protected customers;
- 59. If the system operator detects a physical capacity congestion after 15:00 on the gas day D1:
 - 59.1. during the withdrawal of natural gas from the storage facility, the system operator shall, within the framework of congestion management, allocate the natural gas withdrawal capacity among the system users in the order of receipt of trade notifications and by prioritising the bundled capacity product and the two-year bundled capacity product indicated in the trade notification, first providing the system user which supplies natural gas to protected customers and only in the amount of natural gas to be provided to protected customers;



CONGESTION

NU – NETWORK USER

MWDC - MINIMUM (GUARANTEED) WITHDRAWAL DAILY CAPACITY

IPGK1YP, IPGK2YP – BUNDLED CAPACITY PRODUCTS

FCFS – FIRST COME FIRST SERVE

EXAMPLE ON NEXT SLIDES

Inčukalns underground storage withdrawal capacity congestion management

- Each NU is entitled to MWDC on each product for gas day D, based on following calculation:
 - MWDC (product) = (NU booked product capacity / (Total IPGK1YP capacity + Total IPGK2YP capacity)) * daily withdrawal;
 - Nominations have to be received before D-1 15:00 EET for each product;
 - Confirmed amount will be calculated as:
 - <u>if product nomination is less or equal</u> than MWDC— all nominated amount will be confirmed even in congestion situation.
 - if product nomination is higher than MWDC— all nominated amount in congestion situation will be confirmed either in full or partially between MWDC and nominated amount using pro-rata allocation between all NU nominations higher than their corresponding MWDC by proportion between these NU based on nominated product booked amount proportion between these NUs.
 - After D-1 15:00 all nominations will be processed on FCFS basis only when there is available withdrawal capacity.



Inčukalns congestion management – MWDC calculation

EXAMPLE

NU – NETWORK USER

MWDC - MINIMUM (GUARANTEED) WITHDRAWAL DAILY CAPACITY

IPGK1YP, IPGK2YP – BUNDLED CAPACITY PRODUCTS

FCFS - FIRST COME FIRST SERVE Total booked storage capacity values (in kWh):
Two year bundled capacity product (IPGK2YP)

5 226 000 001

Bundled capacity product (IPGK1YP)

16 293 699 999

Daily withdrawal capacity (kWh/d)

196 700 000

NUs with booked storage capacity:

NU	Product	Booked	MWDC calculation
NU1	IPGK1YP	1 000 000 000	9 140 462
NU1	IPGK2YP	2 000 000 000	18 280 924
NU2	IPGK1YP	500 000 000	4 570 231
NU3	IPGK1YP	500 000 000	4 570 231
NU3	IPGK2YP	200 000 000	1 828 092

NU1 (IPGK1YP) calculation example -

$$MWDC = 196\ 700\ 000 * \frac{1\ 000\ 000\ 000}{(5\ 226\ 000\ 001 + 16\ 293\ 699\ 999)} = \underline{9\ 140\ 462}$$



Inčukalns UGS congestion management – nomination processing

EXAMPLE

NU – NETWORK USER

MWDC - MINIMUM (GUARANTEED) WITHDRAWAL DAILY CAPACITY

IPGK1YP, IPGK2YP – BUNDLED CAPACITY PRODUCTS

FCFS - FIRST COME FIRST SERVE

Daily withdrawal capacity (kWh/d)

196 700 000

NUs with booked storage capacity:

NU	Product	Booked	MWDC	Nominated	Confirmed
NU1	IPGK1YP	1 000 000 000	9 140 462	100 000 000	93 850 000
NU1	IPGK2YP	2 000 000 000	18 280 924	9 000 000	9 000 000
NU2	IPGK1YP	500 000 000	4 570 231	150 000 000	46 925 000
NU3	IPGK1YP	500 000 000	4 570 231	50 000 000	46 925 000
NU3	IPGK2YP	200 000 000	1 828 092		(0)

NU1 (IPGK1YP) confirmed value calculation example -

Confirmed =
$$9\ 140\ 462 + \frac{1\ 000\ 000\ 000}{(1\ 000\ 000\ 000 + 2*500\ 000\ 000)} *$$

$$* (196\ 700\ 000\ - 9\ 140\ 462\ - 9\ 000\ 000\ - 2*4\ 570\ 231)$$

Confirmed = 9140462 + 0.5 * 169419076 = 93850000



CAPACITY.CONEXUS.LV

Transmission and storage data

https://capacity.conexus.lv/?id=156&lang=eng

Incukalns UGS 2020/2021 storage cycle

2020/2021 STORAGE CYCLE INČUKALNS UGS CAPACITIES				
Injection season	2020-05-01 until 2020-10-14	on February 3, 2021		
Withdrawal season	kWh			
Technical capacity		21 525 000 000		
Booked products for 2020/2021 storage	21 525 000 000			
Two yea	5 226 000 001			
	16 293 699 999			
	5 300 000			
Current stock in 2019/2020	12 882 886 542			
Avaliable capacity for booking 2020/20	0			
Unused capacity 2020/2021 from booked		8 642 113 458		

2021/2022 STORAGE CYCLE					
INČUKALNS UGS CAPACITIES					
Injection season	2021-05-01 until 2021-10-14				
Withdrawal season	2021-10-15 until 2022-04-30	kWh			
Technical capacity (to be reviewed no lat	22 501 688 000				

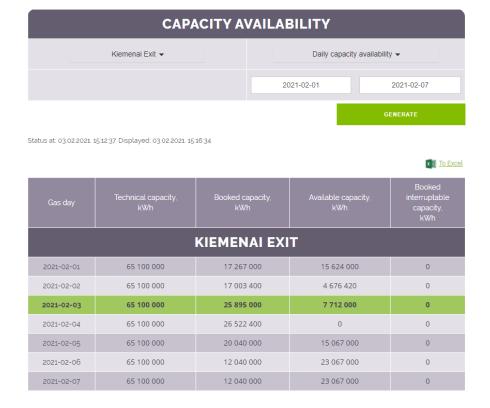
- Commercial data
- Update before 13:00



CAPACITY.CONEXUS.LV

Capacity availability

https://capacity.conexus.lv/?id=160&lang=eng



- Commercial data
- Updated every 5 min



CAPACITY.CONEXUS.LV

• Inčukalns UGS schedule

https://capacity.conexus.lv/?id=187&lang=eng

IUGS INJECTION AND WITHDRAWAL SCHEDULE					
	2021-02-01	2021-04-04			
		GENERATE			

(R) - Virtual reverse counterflow, flow opposite to physical flow of Inčukalns UGS season.

(BCP) - Bundled Capacity Product.

(BCP2Y) - Bundled Capacity 2 Years Product.

(MP) - Market Product.

Status at: 03.02.2021. 15:00:00. Displayed: 03.02.2021. 15:18:45.

	IUGS INJECTION			IUGS WITHDRAWAL		
Gas day	Maximum, kWh	Nominated, kWh	Available. kWh	Maximum. kWh	Nominated. kWh	Available, kWh
2021-02-01	180 511 204 (R)	0 (BCP) 0 (BCP2Y) 0 (MP)	180 511 204	184 000 000	167 373 204(BCP) 13 138 000(BCP2Y) 0 (MP)	3 488 796
2021-02-02	183 780 000 (R)	0 (BCP) 0 (BCP2Y) 0 (MP)	183 780 000	184 000 000	169 642 344 (BCP) 14 137 656 (BCP2Y) 0 (MP)	220 000
2021-02-03	184 000 000 (R)	0 (BCP) 0 (BCP2Y) 0 (MP)	184 000 000	184 000 000	159 777 615 (BCP) 24 222 385 (BCP2Y) 0 (MP)	0
2021-02-04	196 700 000 (R)	0 (BCP) 0 (BCP2Y) 0 (MP)	196 700 000	196 700 000	145 088 383 (BCP) 51 611 617 (BCP2Y) 0 (MP)	0

- Commercial data
- Updated on start of every hour.



CAPACITY.CONEXUS.LV

Nominations and Allocations
 https://capacity.conexus.lv/?id=164&lang=eng

NOMINATIONS AND ALLOCATIONS				
IPGK Entry ▼		2021-02-01	2021-02-07	
			GENERATE	
			x To Excel	
Gas day		Nominations, kWh	Allocations. kWh	
		IPGK ENTRY		
2021-02-01		180 511 204	180 511 204	
2021-02-02		183 780 000	183 780 000	
2021-02-03		184 000 000	0	
2021-02-04		196 700 000	0	
2021-02-05		196 700 000	0	
2021-02-06		84 265 000	0	
2021-02-07		84 265 000	0	

- Commercial data
- Nominations confirmed nominations, updated at least once per hour
- Allocations update after gas day from ~11:00 till 15:00

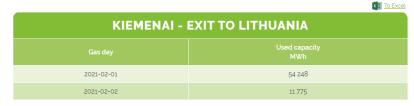


CAPACITY.CONEXUS.LV

Capacities actually used

https://capacity.conexus.lv/?id=158&lang=eng





- Physical flow data
- Update after gas day

