



Regional Gas Market Council meeting

23.08.2021

Agenda

1. Maintenance plans and capacities for gas year 2021-2022
2. Regional market development update
3. Regional principles for market information publication
4. Update on regional infrastructure projects



Maintenance works
01.10.2021. – 31.12.2022.

conexus
B A L T I C G R I D

01.10.2021. – 31.12.2021

No.	Maintenance work description	Start date	End date	Impacting interconnection point	Available capacity (GWh/d)	
					Exit	Entry
1	Repair of underground gas pipeline (UGP) Riga - Panevezys	04.10.2021	07.11.2021	Kiemenai	0	6
2	Piston chamber assembly UGP Valdai – Pskov (works on the Russian Federation side)	20.09.2021	03.10.2021	Luhamaa	85	0
3	Repair works of UGP Izborsk - Incukalns UGS	04.10.2021	13.10.2021	Luhamaa	0	168
4	Disassembly of the piston chamber UGP Valdai – Pskov (works on the Russian Federation side)	14.10.2021	27.10.2021	Luhamaa	85	0
5	Repair works of UGP Izborsk - Incukalns UGS	28.10.2021	31.10.2021	Luhamaa	0	168
6	Repair works of UGP Izborsk - Incukalns UGS	01.11.2021	31.12.2021	Luhamaa	85	97.7

01.01.2022. – 31.12.2022. I

No.	Maintenance work description	Start date	End date	Days	Impacting interconnection point	Available capacity (GWh/d)	
						Exit	Entry
1	Reconstruction of crane unit 30 of Incukalns UGS	10.04.2022	30.04.2022	20	Incukalns UGS	x	40
2	Repair and insulation restoration works of UGP Izborsk - Incukalns UGS	01.04.2022	09.04.2022	8	Luhamaa	52.5	105
		10.04.2022	30.04.2022	20		21	158
		01.05.2022	14.10.2022	166		0	158
		15.10.2022	31.10.2022	16		105	105
3	Modernization of Gas pumping unit (GPU) of Incukalns UGS	01.05.2022	04.05.2022	4	Incukalns UGS	31.5	x
		04.05.2022	08.05.2022	4		52.5	x
		08.05.2022	31.05.2022	24		75.5	x

01.01.2022. – 31.12.2022. I

No.	Maintenance work description	Start date	End date	Days	Impacting interconnection point	Available capacity (GWh/d)	
						Exit	Entry
4	Inspection of defects and repair of UGP Vireši - Tallinn	01.07.2022	31.07.2022	30	Baltic Connector	12	5.4
5	Defect inspection, repair of underground gas pipeline (UGP) Riga - Panevezys and restoration of anti-corrosion insulation	15.10.2022	21.11.2022	37	Kiemenai	0	6
6	Reconstruction of UGP branch to gas regulation station (GRS) Daugmale, and connection unit at UGP Riga - Panevezys	15.10.2022	15.11.2022	31	Kiemenai	0	6



THANK YOU FOR YOUR ATTENTION!

Update on regional gas market development

Regional Gas Market Council

23.08.2021

Cooperation between TSOs on market development

- There is tight collaboration between TSOs for the further development and integration of the regional gas market. Work is ongoing based on the Market Development Plan introduced to market participants in February.
- TSO's have agreed to organize joint Regional Market Development Councils starting from 2021 to inform market participants on relevant topics.
 - First was organised in February to share the results of market participant survey and the TSOs work plan related to the market participant priorities.
 - Present event is second regional event in line of the market councils.
 - Next event expected early next year.
- Main relevant workstreams:
 - Development of joint tariff area
 - Improvement of capacity allocation (BC, Kiemenai, GIPL)
 - Coordinated publication of market information
 - Future of gas system and hydrogen development
 - Harmonisation of gas guarantees of origin systems

Development on Market Integration and Harmonization

MARKET INTEGRATION AND HARMONISATION	Q1/21	Q2	Q3	Q4	Q1/22	Q2	Q3	Q4
Development of common regional roadmap								
Development of joint tariff area between FINESTLAT and LIT								
<ul style="list-style-type: none"> • Negotiation of compensation mechanism & joint position • Market and regulatory consultation • Agreement preparation and negotiations • Tariff consultations and preparation • Go-live (earliest Q4/2022) 								
Harmonization and Deeper Market Integration								
<ul style="list-style-type: none"> • Assessment of harmonization needs of Network and Balancing rules in the region (Q1-Q2, 2021) • Consultation and decisions regarding possible needs for Network and Balancing Rules amendments (Q3-Q4, 2021) • Monitoring market functioning, capacity and collecting feedback (2021-Q1/2022) • Evaluation of feasibility of developing of common capacity booking platform + potential plans (2022) • Evaluation of three/four country balancing zone feasibility and decisions on next steps (2022) 								
COMMS: Regional Market Council for market participants								
<ul style="list-style-type: none"> • Development plans and roadmap (Q1) • Follow-up on Development plans and roadmap (~Q3/Q4) 								

Latest activities

1. Joint tariff zone

- ITC study has been finalised.
- Presently discussions are ongoing between TSOs regarding the acceptable options for ITC designs from the study.
- Study results have been provided to NRAs and Ministries for review
- Discussion in RGMCG planned in September.

2. Market rules harmonisation

- EE-LV balancing rules have gone through public consultation and now going for NRA decision. Main changes related to TSO financial neutrality, collateral terms, processing of personal data and settlement deadlines.
- LT balancing rules have gone through public consultation during summer and provided for NRA approval. Main changes related to possibility to transfer balance responsibility, introduction of neutrality charge, minimum collaterals and ending of previous day trades on VTP.
- LT network rules have also gone through public consultation and provided for NRA approval. Main changes related to gas year moving to Oct-Oct, governing access to GIPL, introduction of green gas injection and minimum collaterals. Implementation expected early next year.
- Balticconnector capacity allocation rules for 2022 will be submitted for approval to FI NRA in September. The same capacity allocation principle will be applied, but minor amendments to the details of current rules are possible.

Development on Technical and Operational co-operation

TECHNICAL AND OPERATIONAL CO-OPERATION	Q1/21	Q2	Q3	Q4	Q1/22	Q2	Q3	Q4
Assessment of Regional Transmission System Capability with current setup and after ongoing infrastructure development projects								
Coordination of Joint Maintenance Plans								
COMMS: Regional Gas Market Council								
• Publication of Regional Transmission system capability assessment (~08)								
• Presentation and publication of PCI-project status and joint maintenance plans								

Development on Green Gases

GREEN GASES	Q1/21	Q2	Q3	Q4	Q1/22	Q2	Q3	Q4
Guarantees of Origin Development								
• Investigate possibility on digital cross-border exchange of mutually recognised gas guarantees of origin in the Finnish-Baltic region by harmonising the rules and developing solutions (2021)								
• Work continues depending on 2021 results (2022)								
Hydrogen Development								
• Evaluating the high pressure-gas system capability to receive hydrogen: Preparation and possible execution of joint study regarding implications of hydrogen injection into existing TSO network (2021)								
• Joint study regarding hydrogen injection into Baltic States and Finnish gas transmission system and needs for gas network retrofitting (2022)								
COMMS: Regional Market Council for market participants								
• Development plans and roadmap (Q1)								
• Follow-up on Development plans and roadmap (~Q3/Q4)								

1. GO development

TSOs are working on steps required for regional recognition of GOs:

- Working on harmonisation of rules for issuing GOs (RED II and standard CEN-EN 16325)
- Proposals for relevant national legislative changes
- Starting of national registries
- Planned implementation 2022, however, highly dependant on national legislative processes.

2. Hydrogen development

- 4 TSOs are looking forward to have coordinated activities in regards to H2 development.
- First step is to perform regional study on the subject in order to identify required technical modification and estimate related investments

Thank you!

Proposed improvements in information publication

Veiko Aunapuu

23.08.2021

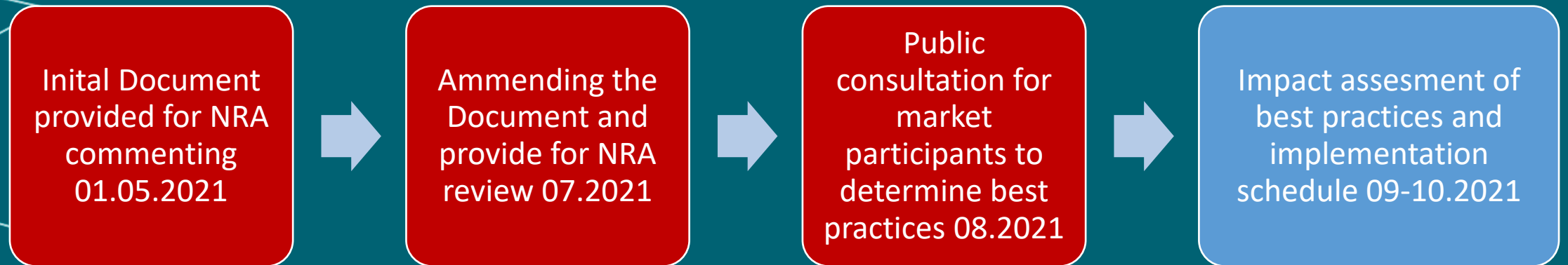
Initiation and work so far

- NRAs approached TSOs with a common letter to look for possibilities of harmonising publication principles.
- TSOs have prepared a common consultation document to collect the different implementations

Content of the documents

- Publication of market transparency and inside information
 - Defines the common publication locations and information available in each publication system.
- Capacity calculation methodology coordination
 - Defines the main capacity calculation principles used by TSOs
 - Defines the main schedule for the calculation procedure by TSOs
- Capacity calculation and coordination timeframes
 - Defines the timeframes and coordination times of the capacity information, as well as the publication time of the coordinated capacity
- Common view on the publication principles used in the REMIT and Transparency reporting
 - Defines any other data or procedure used and data published, mainly:
 - The use of UMM and inside information disclosure

Timeline and process so far



Overview of the documents

- Two documents available for public consultation:
 - Consultation document on Common principles for market information publication
 - Annex of the Document with relevant links giving overview of the location of relevant information
- Main aim of public consultation is to get feedback based on what determine the best practices
- Formulation of the best practices will be used in the review of the market rules and TSO agreements

Main remarks from TSOs

- Overview Document Annex 1 gives overview of the data publication places of all TSOs in a single place
- Differences were found in the process of:
 - Capacity calculation and calculation update and review processes.
 - Implicit capacity share determination and calculation principles
 - Virtual capacity determination and calculation principles
- Overview of established coordination of joint maintenance plan process
- Clarification and description of the inside information disclosure

Documents are available for your remarks

- Information and documents are available on all TSOs homepages for comments and feedback until 06.09.2021. More information on the consultations in the links below:
- Elering: <https://elering.ee/en/current-consultations#tab0>
- Conexus: <https://www.conexus.lv/aktualitates-eng-575/konsultaciju-dokuments-par-tirgus-informacijas-publicesanas-kopejiem-principiem>
- Amber Grid: https://www.ambergrid.lt/en/about-us/public-consultations/public_consultations
- GasGrid Finland: <https://gasgrid.fi/2021/08/23/public-consultation-concerning-common-principles-for-market-information-publication-on-23-august-6-september-2021/>

An abstract geometric pattern of white lines is located in the bottom-left corner of the slide. It consists of several interconnected triangles and polygons of varying sizes, creating a complex, crystalline structure that extends from the left edge towards the center.

Thank you!

Balticconnector project

Short timeline of the Balticconnector cluster projects

- 04.05.2015 Elering Gaas AS, Gasum Oy and INEA (The Innovation and Networks Executive Agency) signed co-financing agreement for preparatory studies
- 27.04.2016 application for co-financing of works by EU submitted by project promoters
- 17.10.2016 Co-operation agreement between Elering AS and Baltic Connector OY.
- 22.10.2016 Elering AS, Baltic Connector Oy and INEA signed co-financing agreement for works of Estonia – Finland gas interconnection
- 19.12.2016 Elering AS and INEA signed co-financing agreement for works of reinforcement of Estonia – Latvia gas interconnection
- 2017-2018 procurements
- 27.03.2018 Contract for construction of offshore pipeline signed
- 01.01.2020 Start of FI-EE-LV gas market with limited capacity of BalticConnector
- **16.06.2021 All projects completed, possibility to utilize designed capacity of Balticconnector**



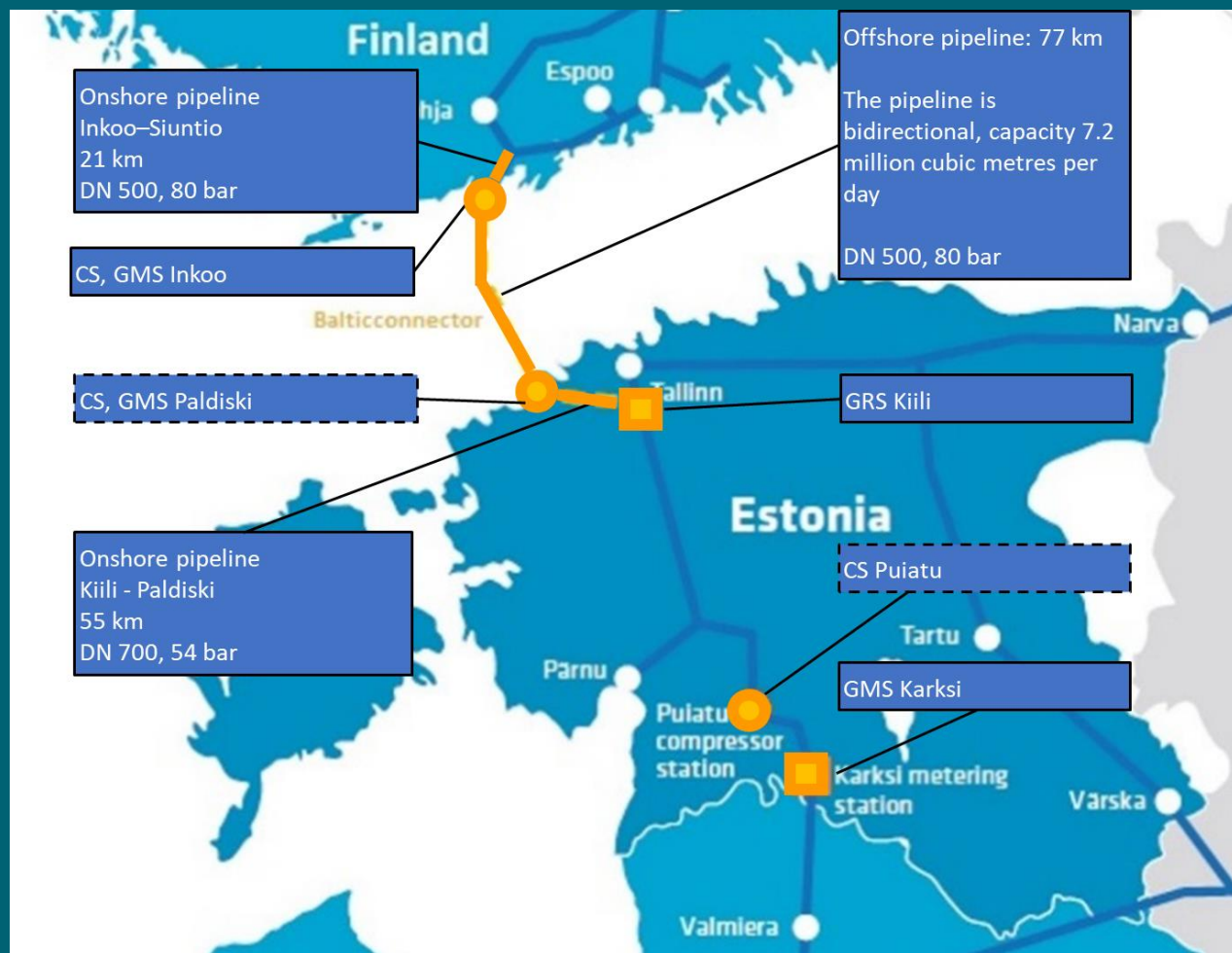
Completion of Balticconnector cluster projects

Completed, in market use from January 2020

- Paldiski-Inkoo offshore pipeline (EE-FI)
- Inkoo – Siuntio onshore pipeline and Inkoo compressor station (FI)
- Kiili- Paldiski onshore pipeline and Kiili gas reduction station (EE)
- Karksi gas metering station (EE)

Completed with delay

- **Puistu compressor station** - in market use from 29 April 2021
- **Paldiski compressor station** - in market use from 16 June 2021



The background is a solid teal color. In the bottom-left corner, there is a white geometric pattern consisting of several interconnected lines forming a series of triangles and polygons, resembling a stylized mountain range or a network diagram.

Thank you!



JSC «Conexus Baltic Grid»

PROGRESS OF INCUKALNS UGS AND LATVIA-LITHUANIA ENHANCEMENT PROJECTS

Dr. Ivars Ščerbickis - Head of Technical development and
Investments department



Co-financed by the European Union
Connecting Europe Facility

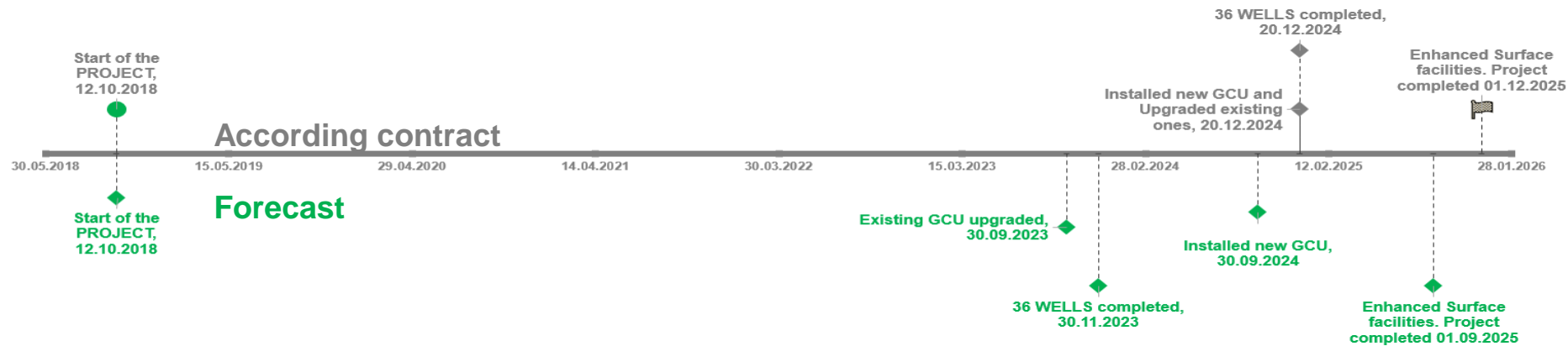
Description: Inčukalns UGS is the largest gas storage in the Baltic Sea region. Working gas capacity: 24 TWh. Aquifer reservoir storage. Compression extraction not possible. Set deliveries – LV, LT, EST, FIN.

Main goals of the project:

- to prepare the storage functionality for higher pressure in Baltic transmission system;
- to reduce the dependency of withdrawal capacity from level of commodities in the storage.

The project foresees:

- Construction and commissioning of the new GCP;
- Enhancement of 36 wells;
- Installation of gas compression unit and upgrade of the existing reciprocating gas compression units.



TYNDP number	Investment name	Current status	Delayed/ Rescheduled	Reason for delay/reschedule
UGS-F-374	Enhancement of Inčukalns UGS	Construction	On time	n.a.

8.2.4-0031-LV-W-M-18

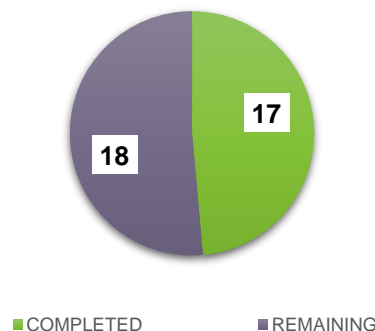
ENHANCEMENT OF INCUKALNS UGS

• **Progress** – implementation of the project is ahead of the schedule in all activities.
Completion level according the milestones is nearly 50%.

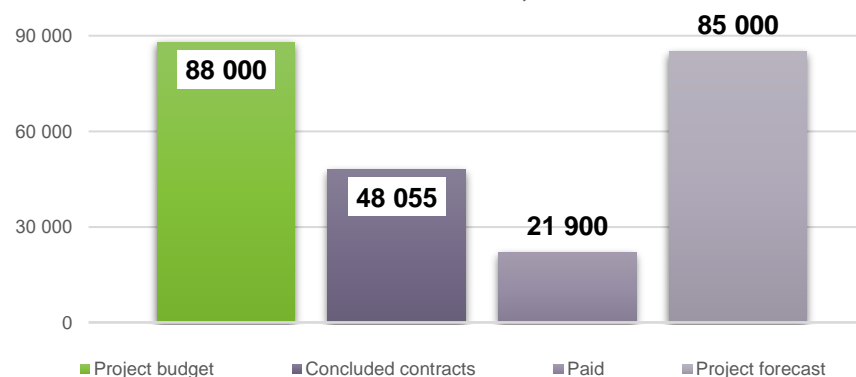
- Milestones completed in 2021:
 - The contract for delivery of necessary technological equipment for GCP No.3 construction is concluded;
 - The tender for delivery of GCU is announced.
- Remaining milestones in 2021:
 - Complete the enhancement of first 15 wells;
 - Conclude the contract for delivery of GCU;
 - Complete the upgrade of existing GCU No.3.

PROJECT SUMMARY

MILESTONES

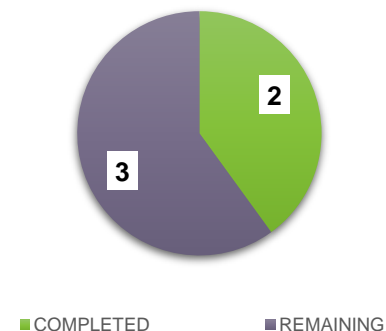


PROJECT COSTS, kEUR

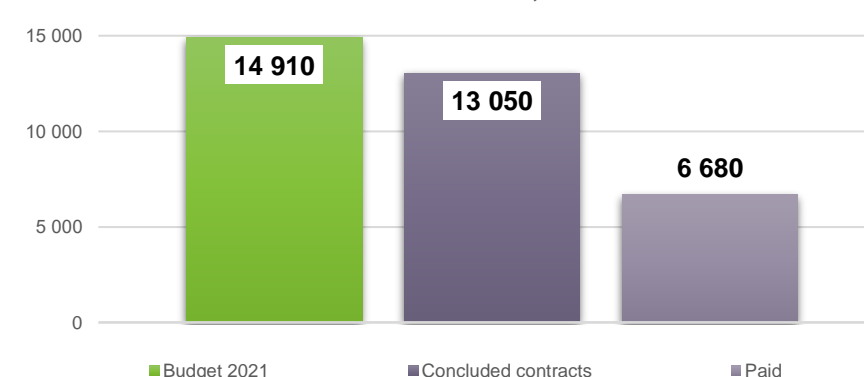


SCHEDULED IN 2021

MILESTONES



PROJECT COSTS, kEUR



Enhancement of Gas collection point No.3

32,3 MEUR

Activity/Year	2019	2020	2021	2022	2023	2024	2025
Designing of CP3							
Production of equipment							
Construction of CO3							

Main achievements:

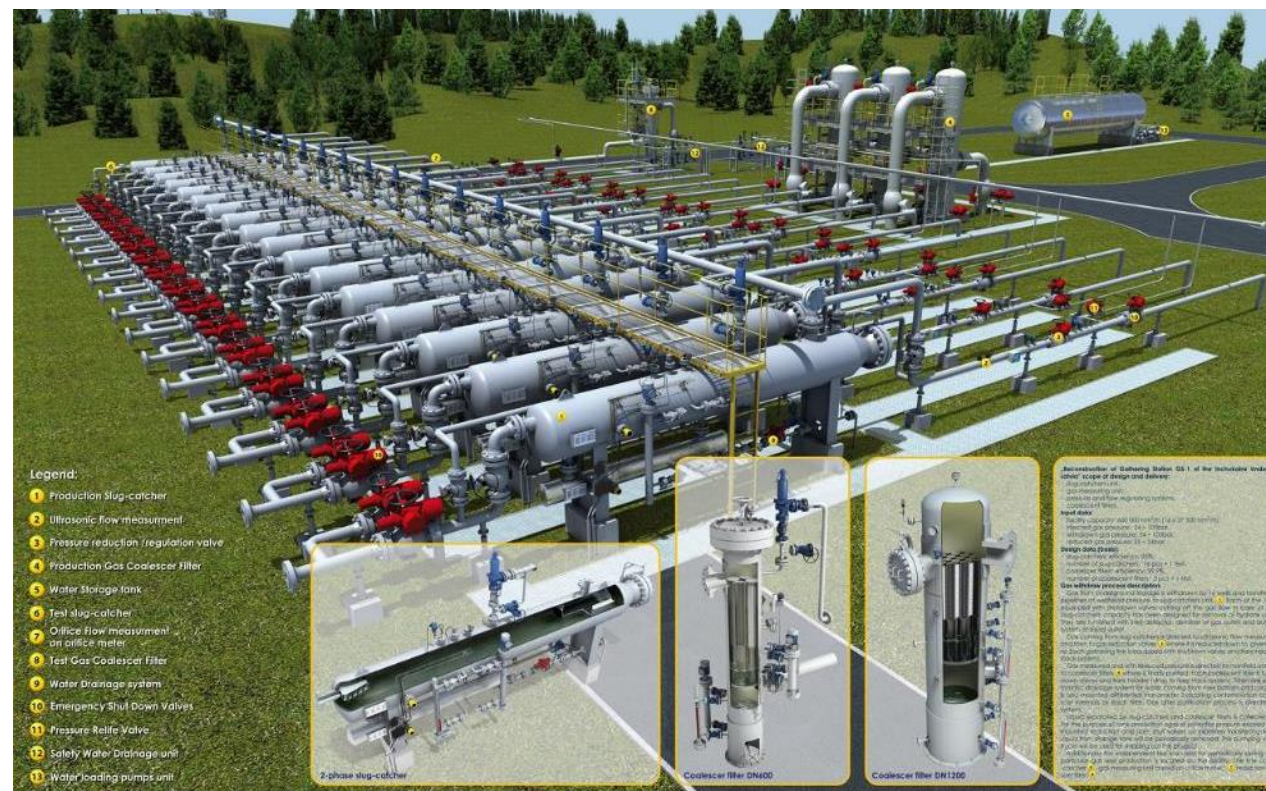
- Productivity increase up to 10%;
- Creation of blow out system without CH4 emissions;
- Creation of additional technological lines.

Now in progress:

- Production of the main technological equipment, pipes and fittings;
- Detail engineering.

Estimated impact during implementation:

- To reduce the possible capacity drop, construction works will be organized in two separate parts;
- Estimated impact: Second half of 2023 – end of 2025.



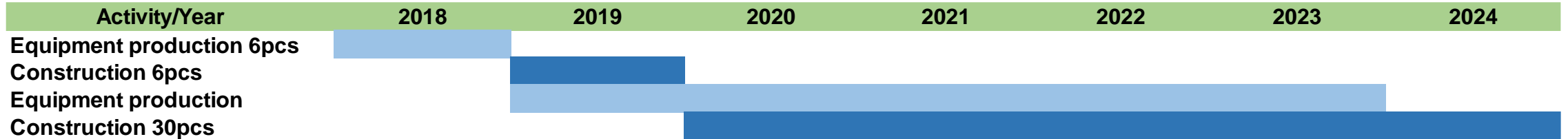
conexus
BALTIC GRID



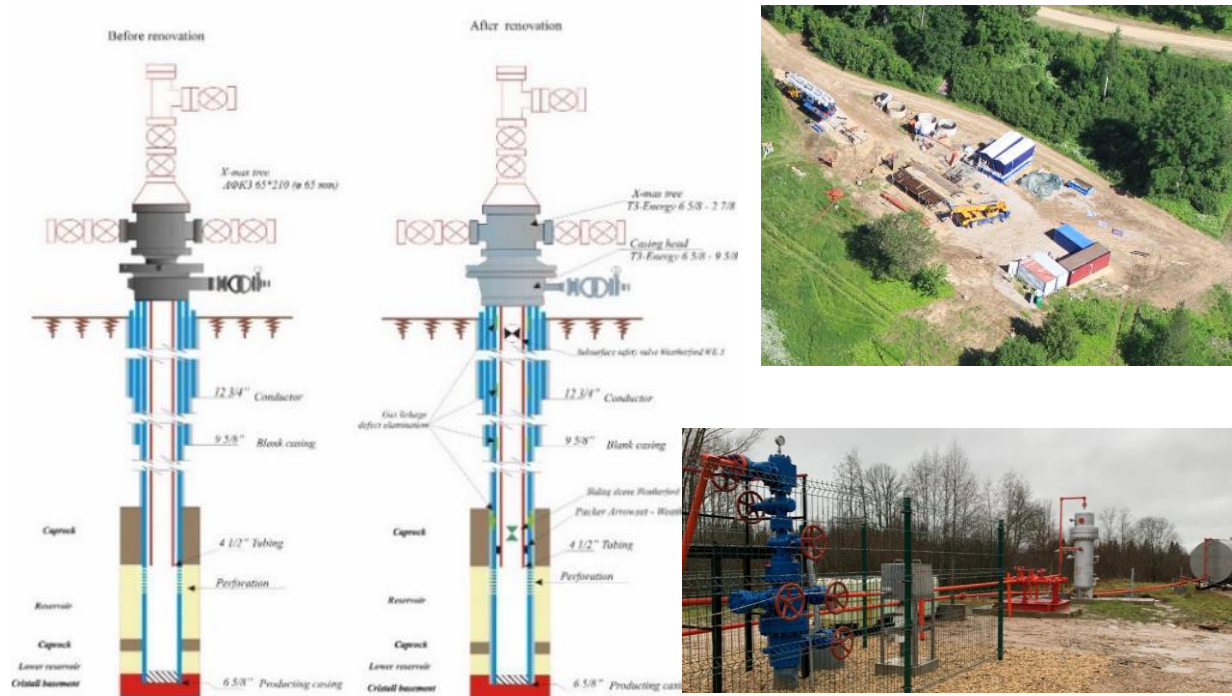
Co-financed by the European Union
Connecting Europe Facility

Modernization of wells

27.0 MEUR



Typical scheme of well renovation



Main achievements:

- Productivity increase up to 10%;
- Reduction of CH₄ emissions;
- Increased lifetime.

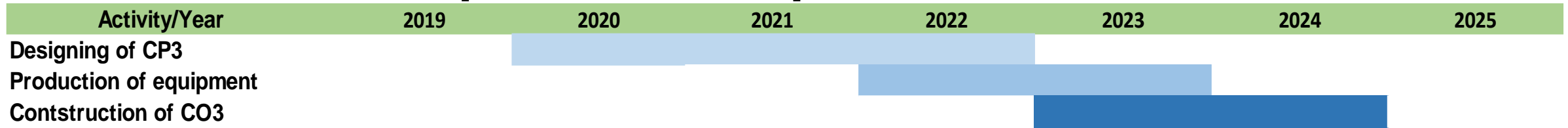
Now in progress:

- Enhancement of 12 wells fully completed;
- Enhancement of 3 wells 95% completed;
- Enhancement of 3 wells in progress.

Estimated impact during implementation:

- No impact during the implementation.

Development of compression withdrawal



Main achievements:

- Injection productivity increase up to 6 million m³/24h;
- Compression extraction up to 15 million m³/24h.

Now in progress:

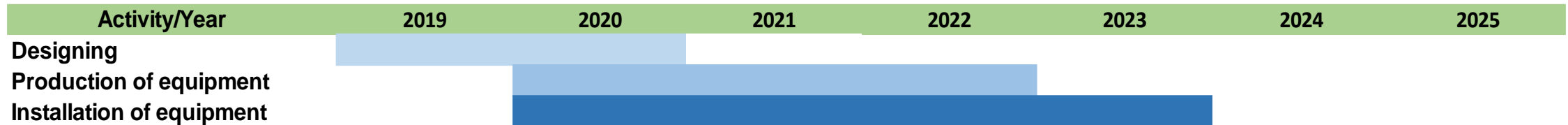
- Winner nomination for GCU delivery;
- Tender preparation for delivery of pipes, fittings and process filter.
- Detail engineering

Estimated impact during implementation:

- No impact during the implementation.

Modernization of gas compression units

8,7 MEUR



conexus
B A L T I C G R I D

Main achievements:

- Reduction of CO₂, CH₄ emissions;
- Decrease of fuel gas consumption by 3-15%.

Now in progress:

- Completion of «paper works» after GCU No.3 modernization
- Delivery of necessary spare parts for GCU No. 2 and 4 modernization

Estimated impact during implementation:

- May 2022: possible injection volume decrease;
- May 2023: possible injection volume decrease.

PROJECTS

ENHANCEMENT OF LATVIA — LITHUANIA INTERCONNECTION



Project promoters:



CAPEX, OPEX, benefits:

- Enhancing connection and eliminating bottleneck between Lithuania and Latvia;
- Facilitating creation of the common gas market zone for Baltic Countries and Finland

TSO	CAPEX MEUR	OPEX MEUR/y
Conexus	5,1	0,4
Amber Grid	4,7	0,1

50% CAPEX covered by Innovation and Network Executive Agency

Technical details and relations to other projects:

- Project supports increase of LV-LT interconnection capacity to **130,47 GWh/d in the direction LT->LV and 119,5 GWh/d in the direction LV->LT**
- LT: enhancement of capacity of Kiemēnai GMS and modification of piping for Panevėžys CS;
- LV: enhancement of LV transmission pipeline system for increase of max pressure up to 50 bar;
- LV: 17 sub-activities. Each with different achievements.

Timeline:

- 7 sub-activities are currently completed;
- Project is expected to be completed by the end of 2023.

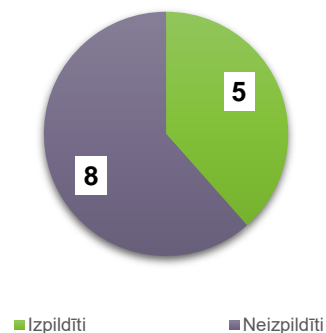
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ENHANCEMENT OF LATVIA – LITHUANIA INTERCONNECTION

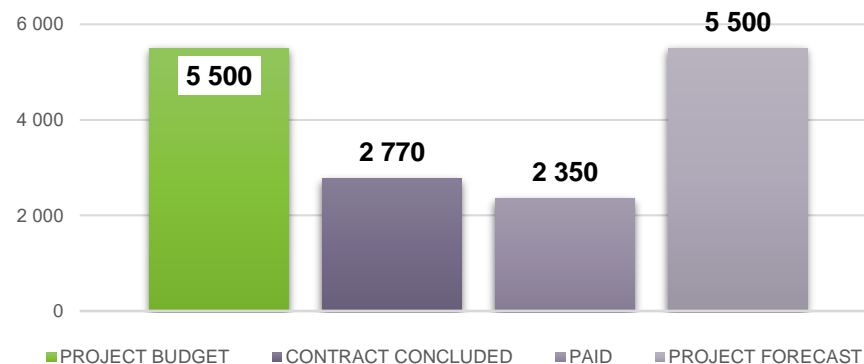
- **Costs** – scheduled and forecasted costs are very close;
- **Progress** – according schedule;
- Construction works on pipeline Riga – Pāņeveža completed.

PROJECT SUMMARY

MILESTONES

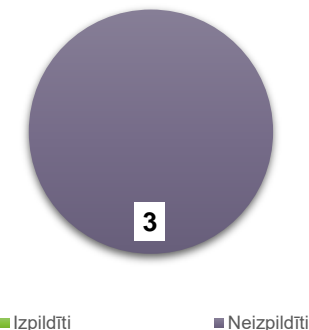


PROJECT COSTS, k.EUR

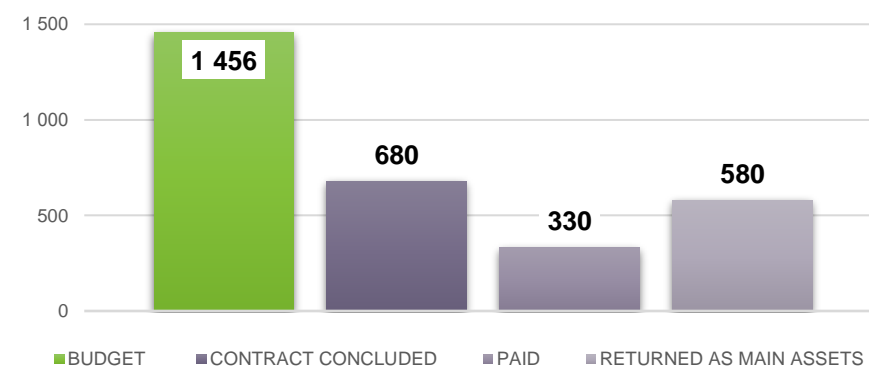


PROJECT IN 2021

MILESTONES



PROJECT COSTS IN 2021, k. EUR




8.2.1-0001-LVLT-W-M-19

ENHANCEMENT LATVIA – LITHUANIA INTERCONNECTION

- Activities No.1, No.2, No.3, No.4, No.5 and No.6: completed.
- Activities No.7, No.8, No.11, No.13: all necessary contracts concluded.
- Activities No.9, No.10, No.12: detail designing completed, necessary equipment deliveries in progress.
- Activities No.14 - No.17: procurement for detail engineering completed, contracts concluded.

No	Activity code	Activity name	Budget	Start	Completed
1	RE-0013-19	Rebuilding of Valves T5-T6 node	550 000	20.11.2018	01.06.2021
2	RE-0012-19	Rebuilding of branch pipeline to GRS «Valmiera 1»	440 000	20.11.2018	20.11.2020
3	RE-0016-19	Rebuilding of connection Vireši – Tallinn to Pskov-IUGS	330 000	20.11.2018	29.12.2020
4	RE-0015-19	Rebuilding of valve node 1 PL to GRS «Palsmane»	165 000	20.11.2018	20.11.2020
5	RE-0014-19	Rider rebuilding at valve Iz.427	110 000	20.11.2018	11.12.2020
6	7161 (operational)	Transmission system assessment	112 000	01.07.2019	30.06.2020
7	7161 (operational)	Complex of technical diagnostic works	310 000	01.07.2019	30.09.2021
8	RE-0023-20	Repairing of pipelines defects	878 000	01.07.2019	01.12.2023
9	RE-0012-20	Rebuilding of branch pipeline to GRS «Ezerciems»	389 400	18.11.2019	30.12.2022
10	RE-0010-20	Rebuilding pipelines segments at connection point to IUGS	341 000	18.11.2019	30.11.2022
11	RE-0011-20	Rebuilding pipelines segment at GRS «Rīga 1»	235 950	18.11.2019	30.11.2021
12	RE-0013-20	Rebuilding of branch pipeline to GRS «Krimulda»	222 750	18.11.2019	31.10.2022
13	RE-0009-20	Rebuilding Rīga-Paņeveža connection to Rīga – IUGS pipelines	146 300	18.11.2019	31.12.2021
14	RE-0031-20	Rebuilding of branch pipeline to GRS «Vangaži	337 700	22.03.2021	01.12.2023
15	RE-0030-20	Rebuilding of branch pipeline to GRS «Zaķumuiža»	336 600	22.03.2021	31.10.2023
16	RE-0028-20	Rebuilding of branch pipeline to GRS «Daugmale»	281 600	22.03.2021	01.11.2023
17	RE-0029-20	Rebuilding of branch pipeline to GRS «Baldone»	281 600	22.03.2021	13.10.2023
TOTAL :			5 467 900		



**THANK YOU FOR YOUR ATTENTION
Q-A?**

ivars.scerbickis@conexus.lv

GAS INTERCONNECTION POLAND – LITHUANIA (GIPL) THE CURRENT PROGRESS

REGIONAL GAS MARKET COUNCIL

23 August 2021



GAS INTERCONNECTION POLAND – LITHUANIA (GIPL)

Description of the investment: The aim of the project is the construction of a compressor station and new cross-border gas pipeline, which will connect the natural gas transmission systems of Poland and Lithuania and integrate the isolated gas markets in the East Baltic region with the European gas market increasing competitiveness, security and diversification of supply.

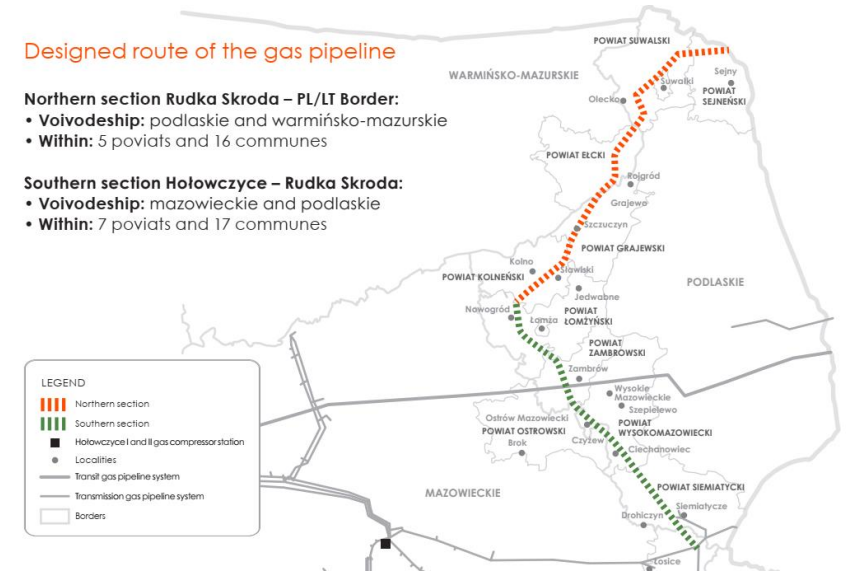
Member States: Poland, Lithuania

Project Promoters: Amber Grid (LT), GAZ-SYSTEM (PL)

Major components of the project in PL:

- Gas pipeline (DN 700) of approx. 343 km on the PL side and approx. 165 km on the LT side and modernisation of the compressor station in Hołowczyce (PL)
- Compressor station in Gustorzyn (PL)

Capacity: PL->LT: **2.4 bcm/y** and LT-> PL: **1.9 bcm/y**



Recognized by the EC as a **project of common interest (PCI 8.5)** under the **Baltic Energy Market Interconnection Plan** in gas



Co-financed by the Connecting Europe Facility of the European Union



GAS INTERCONNECTION POLAND – LITHUANIA (GIPL) CONSTRUCTION WORKS ARE IN PROGRESS



GAS INTERCONNECTION POLAND – LITHUANIA (GIPL) CONSTRUCTION WORKS ARE IN PROGRESS

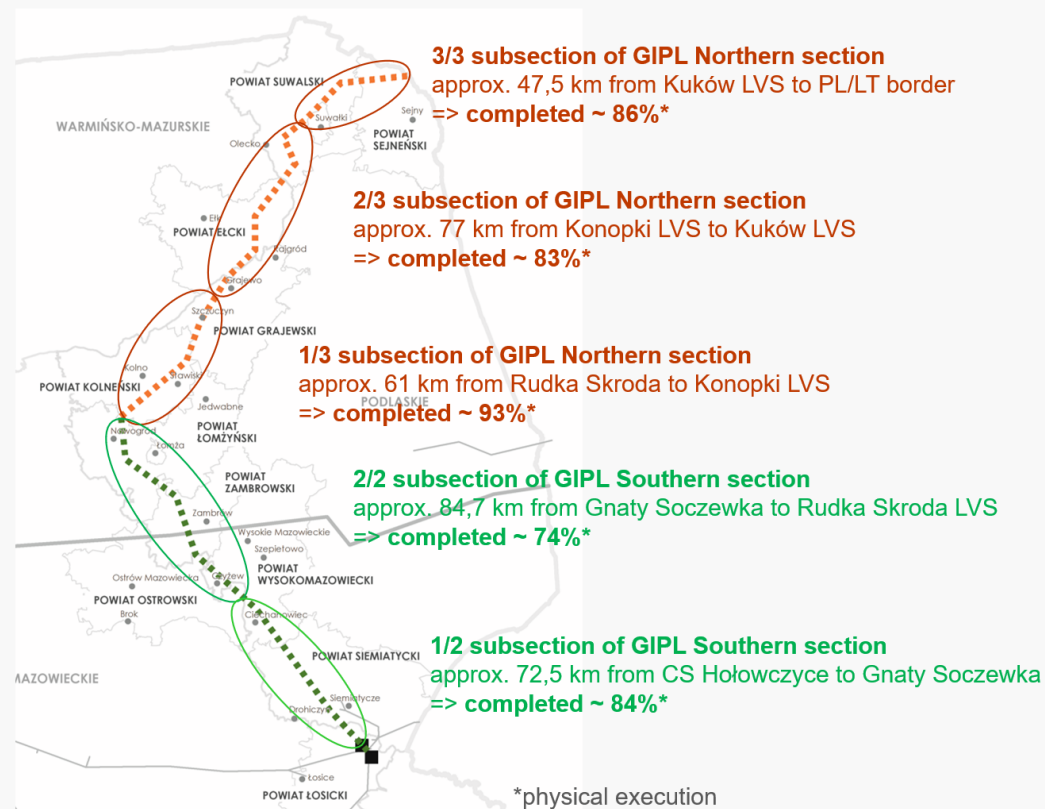
- **GIPL pipeline:**
 - All Building permissions obtained
 - All contracts for the pipes and valves supply signed
 - All contracts with Contractors of construction works signed
 - Delivery of pipes and the other Investor's supplies completed
- **CS Gustorzyn:**
 - Building permission obtained
 - All contracts for Investor's deliveries (compressor sets, valves, etc.) and for supervision of investor's deliveries signed
 - Contractors for construction works and Investor's supervision selected and the contracts signed
 - Delivery of compressor sets and the other Investor's supplies completed
- **The construction works on the CS Gustorzyn and the GIPL pipeline, including the modernisation of CS Hołowczyce, are ongoing**
- **Expected commissioning date for pipeline is May 2022 and for CS Gustorzyn is September 2022**



GAS INTERCONNECTION POLAND – LITHUANIA (GIPL)

PIPELINE CONSTRUCTION IS CURRENTLY IN PROGRESS

Tasks in progress	Physical execution		
	GIPL Northern section	1/2 subsection of GIPL Southern section	2/2 subsection of GIPL Southern section
Construction site prepared	99%	100%	100%
Fixtures deliveries completed	100%	100%	100%
Induction bends deliveries completed	100%	100%	100%
Pipes deliveries completed	100%	100%	100%
Trenching, laying down the pipeline	96%	100%	92%
Burying the pipeline	90%	95%	81%
Seam welding	99%	100%	100%



GIPL in Lithuania

Construction progress

Main tasks completed (as of end of June):

- Over 100 km of the pipeline connected to the gas transmission system and filled with the gas
- The Acts on completion the first and second stages (~102 km) of construction works has been received

The course of the main construction works:

- ~165 km of pipeline welded, ~162 km - laid in the trench, and trenches are buried

Current status:

- Construction works are ongoing according to the time schedule
- **>90% of construction works were completed by the end of July 2021**



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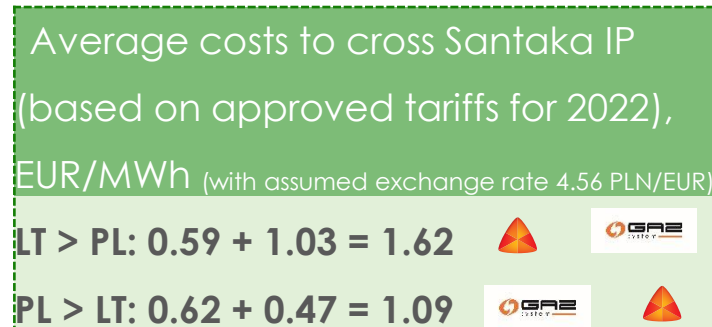
NOTE. Completion status indicated as of end of June 2021

Preparatory steps towards GIPL operation – capacity allocation

- GIPL capacity will be booked and allocated via **GSA auctioning platform (gsaplatform.eu)**, the one which is used for other interconnection points in Poland
- Capacity auctions will be organized following requirements of EU [Network Code on Capacity Allocation Mechanisms](#)
- **Bundled** capacity products shall be allocated – i.e. the exit capacity from PL or LT shall be bundled in one product with entry capacity to LT or PL;
- Capacity products timeframes will be identical to the ones applied in other EU interconnection points: **annual, quarterly, monthly, daily, within-day**;
- Capacity will be denominated in **kWh/h**
- Date-specific [EU-wide auction calendars](#) are presented by **ENTSOG** (also available in gsaplatform.eu).
- The **1st annual capacity auction for GIPL** is planned to be held on **1st Monday of July in 2022**, unless otherwise will specified in ENTSOG auction calendar for that year

Preparatory steps towards GIPL operation – tariffs and amendment of rules

- **Tariffs.** In GIPL IP (Santaka) tariffs for capacity will be denominated in **EUR per kWh/h per h**. Applicable tariffs (reserve prices in auctions) are approved for 2022 and result in such average costs:



- **Rules / Agreements.**

Currently **Amber Grid Rules for the Access to the Transmission system** and **Balancing rules** are in the process of amendment. In June the Rules were out for public consultation. With responses collected and evaluated currently rules are submitted to LT NRA for approval. The rules planned to be applied from 1 Feb 2022.

GIPL Interconnection agreement has been also consulted on matching, allocation, and communication principles and procedures in May-June. No comments have been received. TSOs will proceed to signing the agreement in the autumn.

THANK YOU FOR YOUR ATTENTION

