

**REPORT ON THE RESULTS
OF THE SECURITY MONITORING
OF NATURAL GAS SUPPLY
DURING 2016**

KYIV, 2017

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Introduction

This document has been prepared in accordance with Article 29 of the Treaty Establishing the Energy Community, Article 7 of the Law of Ukraine “On the natural gas market”, as well as the National Action Plan and the Rules on the security of natural gas supply.

In compiling the Report for 2016 based on the results of monitoring of security of natural gas supply (hereinafter - the Report) the Guidelines of Energy Community Secretariat were taken into account on the preparation of the updated statement on security of energy supply in the member-countries of the Energy Community which were approved during the 19th meeting of the High Level Group of the Energy Community on March 23, 2011, as well as the requirements of Regulation (EC) No. 994/2010 of the European Parliament and of the Council dated October 20, 2010 on the measures to ensure the security of natural gas supply.

In preparing the Report, PJSC “Ukrtransgaz” was guided by the results of the collaboration with the Institute for Energy and Transport of the Joint Research Center (JRC-IET) of European Commission within the project “Improvement of legislation of Ukraine on the security of natural gas supply”, which included the preparation of risk assessment on the security of gas supply, development of hydraulic model of the gas transportation system of Ukraine, as well as update and improvement of the National Action Plan and the Rules on the security of natural gas supply.

Also, the results of the work of the Regional Coordination System for Gas (RCSG) within the framework of the European Network of Transmission System Operators for Gas (ENTSO-G) were taken into account while preparing the Report, one of the tasks of which is to prepare a simulation model for situations with the interruption of natural gas deliveries to certain destinations, which is provided by the new version of the EU Regulation on the rules of security of supply.

The Report covers gas sector, which is settled by the EU Directives and Regulations set out in the Protocol on Ukraine's accession to the Treaty Establishing the Energy Community.

1. The status of measures implementation on the security of natural gas supply.

In 2016 during the most peak thirty-day period with the highest demand for natural gas lasted from January 1 to January 31. During that period the average daily demand for natural gas in Ukraine was at the level of 178.2 million cubic meters, while the average daily demand for natural gas in terms of domestic consumers and utility companies was amounted to 127.1 million cubic meters. The most active demand for a seven-day period was from January 1, 2016 to January 7, 2016. During that period, the average daily demand for natural gas in Ukraine was at the level 201.4 million cubic meters, while the average daily demand for natural gas in terms of domestic consumers and utility companies amounted to 147.7 million cubic meters. The daily description of peak consumption in January 2016 is provided in Table 1.

Table 1

Date	Consumption Ukraine, total	Consumption Utility companies + population	Average daily temperature	Supply from production	Supply from import	Withdrawal from underground gas storages	Maximum available level of withdrawal
01.01.2016	189.5	137.7	-9	56.4	21.6	117.3	147.0
02.01.2016	204.3	150.7	-13	56.2	21.5	125.5	147.0
03.01.2016	213.8	158.1	-17	55.9	21.6	123.1	147.0
04.01.2016	217.4	160.4	-15	55.6	21.6	135.0	147.0
05.01.2016	209.8	154.3	-9	55.9	20.9	137.4	134.0
06.01.2016	194.2	142.7	-7	56.0	16.2	130.7	134.0
07.01.2016	181.2	130.4	-5	55.9	16.9	118.7	134.0
08.01.2016	175.0	124.8	-5	56.0	16.6	109.6	134.0
09.01.2016	170.0	121.1	-2	55.9	16.5	94.2	134.0
10.01.2016	168.1	119.1	-2	55.9	15.9	89.8	134.0
11.01.2016	163.3	113.0	-1	55.6	13.1	86.5	134.0
12.01.2016	152.9	103.9	2	55.9	14.4	94.0	134.0
13.01.2016	152.0	103.6	1	56.0	14.8	93.5	134.0
14.01.2016	155.0	110.9	-1	55.8	28.6	72.7	134.0
15.01.2016	158.0	109.7	-1	55.9	29.0	71.3	134.0
16.01.2016	161.2	113.0	-2	56.5	36.6	73.3	134.0
17.01.2016	176.0	126.0	-6	55.9	36.2	75.9	134.0
18.01.2016	181.9	131.3	-6	55.6	35.4	90.5	125.0
19.01.2016	184.3	132.5	-6	55.7	35.1	99.1	125.0
20.01.2016	186.7	133.8	-7	55.6	37.5	99.6	125.0
21.01.2016	187.6	136.0	-7	55.7	39.2	96.6	125.0
22.01.2016	193.6	141.2	-9	55.9	40.4	89.1	125.0
23.01.2016	198.1	144.5	-10	55.9	41.8	88.7	125.0
24.01.2016	203.9	146.9	-12	55.8	41.8	87.8	125.0
25.01.2016	196.6	141.1	-9	55.8	39.3	98.1	125.0
26.01.2016	184.8	132.3	-6	55.8	40.1	95.0	125.0
27.01.2016	167.6	116.8	0	55.9	41.4	80.1	125.0
28.01.2016	151.8	103.7	3	56.0	41.6	65.9	125.0

Date	Consumption Ukraine, total	Consumption Utility companies + population	Average daily temperature	Supply from production	Supply from import	Withdrawal from underground gas storages	Maximum available level of withdrawal
29.01.2016	148.2	101.6	2	56.0	40.4	48.7	125.0
30.01.2016	144.8	99.7	2	56.2	39.5	42.8	125.0
31.01.2016	153.3	99.5	2	56.1	39.2	52.7	125.0

Thus, during the peak level of natural gas consumption by Ukrainian consumers in January 2016, the volumes of gas that entered to the gas transmission system of PJSC “UKRTRANSGAZ” fully covered general needs in Ukraine for a certain period of time using sources of production, imports and withdrawal from underground gas storages. The main source of natural gas, which was used to cover peak periods, was the gas withdrawn from underground storage facilities; moreover the highest possible level of withdrawal depended on the volume of active gas in the underground storage facilities. Even in the coldest period the volumes of active gas fully provided the necessary level of withdrawal.

In order to ensure the security and to increase the reliability of natural gas supply provided by PJSC “UKRTRANSGAZ”, the project **“Reconstruction, capital repairs and technical re-equipping of the main gas pipeline Urengoy – Pomary - Uzhgorod”** (hereinafter - the Project) is on the process of implementation by financing EBRD and EIB loans, in accordance with the requirements of the Cabinet of Ministers of Ukraine from 27.01.2016 No. 70 “On the preparation, implementation, monitoring and completion of projects of economic and social development of Ukraine, supported by international financial institutions”.

Within the framework of the project, at the expense of credit funds of the EIB, EBRD and the funds of PJSC “UKRTRANSGAZ”, the following is to be performed:

- capital repairs of four sections of the linear part with the total length of 118.99 km;
- reconstruction of compressor station “Romny” of main gas pipeline “Urengoy-Pomary-Uzhgorod”.

On December 1, 2014 the Financing Agreement was signed between Ukraine and the EIB in the amount of 150 mln. Euro (hereinafter – Financing Agreement) and Project Agreement between PJSC “UKRTRANSGAZ” and the EIB. On 31.08.2015 the Financial Agreement was entered into force.

On December 15, 2014 the Loan Agreement was signed between Ukraine and the European Bank for Reconstruction and Development amounting upto 150,00 mln. Euro (hereinafter – Loan Agreement) and Project Agreement between PJSC “UKRTRANSGAZ” and EBRD. As of 01.01.2017, the Loan Agreement has not entered into force.

As for the economic effect of the project, in accordance with the investment Feasibility Study of the project, which was submitted to the Ministry of Energy for the further preparation of the package of documents

on attraction of credit funds from IFIs, the internal rate of return is 17.7%, the discounted payback period is 12 years and the profitability index is 1,04.

The measures taken in 2016

During 2016 PJSC “UKRTRANSGAZ” primarily conducted activities aimed at fulfilment of the preconditions for validity and enforceability of the agreements with the EBRD.

For today, all preconditions for the Loan Agreement to be entered into force in accordance with Section 5.01 were fulfilled, as well as the most of the preconditions for validity of Project Agreement (Section 4.01). In particular, the Project Implementation Unit (PIU) was established and maintained, the procurement procedure was conducted and the PIU Consultant was engaged at the expense of Grant No.TF018284 of International Bank for Reconstruction and Development.

Su-Yapi Engineering and Consulting Inc. has been chosen as the PIU Consultant. (Turkey). Based on the results of the work in the framework of the contract, the PIU Consultant jointly with PJSC “UKRTRANSGAZ” fulfilled the following main tasks: the review of the design documentation of the linear part construction facilities included in the Project; the review and updating of the procurement strategy for goods, works and services (GWS) to be financed by EBRD and EIB loan funds; partial preparation of tender documentation for the purchase of GWS; the review of environmental and social measures and the package of environmental and social documents for the tender documentation for the purchase of GWS; development of the methods of the introduction of accounting and financial management systems; development of the guidelines on the quality management and control system; the training seminars for the PIU staff on the aspects of project management and implementation.

The period of validity of the Grant and respectively the contract with the PIU consultant expired on 21/10/2016.

According to the requirements for the implementation of the IBRD Grants, the final audit of the use of the Grant No.TF018284 was carried out and the positive report of the independent auditor ZAO “Deloitte & Touche USC” was received.

Also, in November 2016 the PJSC “UKRTRANSGAZ” started the procedure of procurement of consulting services for supervision of construction works under the Project (Consultant for Engineering Supervision or FIDIC Consultant), whose services are expected to be financed from the EBRD loan funds. On 11.11.2016 on the EBRD website an announcement on the purchase of specified services was published.

At the moment, in May 2017, the Grant Agreement has been concluded for the further financing of the PIU Consultant in accordance with the requirements of the Decree of the Cabinet of Ministers dated 15.0.2002 No. 153 for the period up to 31.07.2018. As agreed by the IBRD, the Contract conclusion with the consulting company Su-Yapi Engineering and Consulting Inc. (Turkey) is ongoing, which will continue to provide services of the PIU Consultant.

PJSC "UKRTRANSGAZ" continues to purchase consulting services for supervision of construction works and in January 2017 the procedure for pre-qualification of applicants for the purchase of works on the capital repairs of 4 sections of the linear part of the main gas pipeline Urengoy-Pomary-Uzhgorod has been initiated for the Project under the EBRD Procurement Rules.

State of design documentation for the Project

1. The design documentation on sections of capital repairs of linear part of the pipeline is approved in accordance with the procedure established by legislation in line with the orders of the Cabinet of Ministers of Ukraine (km 3364,5-3391,2 – dated 22.07.2016 No. 523-p; km 3488,36-3519,87 – dated 22.09.2016 No. 680-p; km 3974,77-4008,45 – dated 23.12.2015 No.1368-p and km 4101,3-4128,4 – dated 23.12.2015 No.1367-p).

2. Reconstruction of the “Romny” Compressor Station of the main gas pipeline “Urengoy-Pomary-Uzhgorod” – the positive report of the state expertise of the Feasibility Study was presented. Currently, a package of documents on approval of the Feasibility Study is under consideration in the Cabinet of Ministers of Ukraine.

Nowadays, the works on the development of land use documentation are on the process. The works on the entering information into the State Land Cadastre on restriction of the land plots use and state registration of restricted use rights in the territorial bodies of the Ministry of Justice.

2. Status of the resources securing for the natural gas market supply.

In 2016, natural gas production in Ukraine amounted upto 20.1 bcm (Figure 1) while natural gas consumption amounted upto 33.2 bcm (Figure 2), thus the gas consumption was covered with 61% due to the own production of natural gas (in 2015 - 58%).

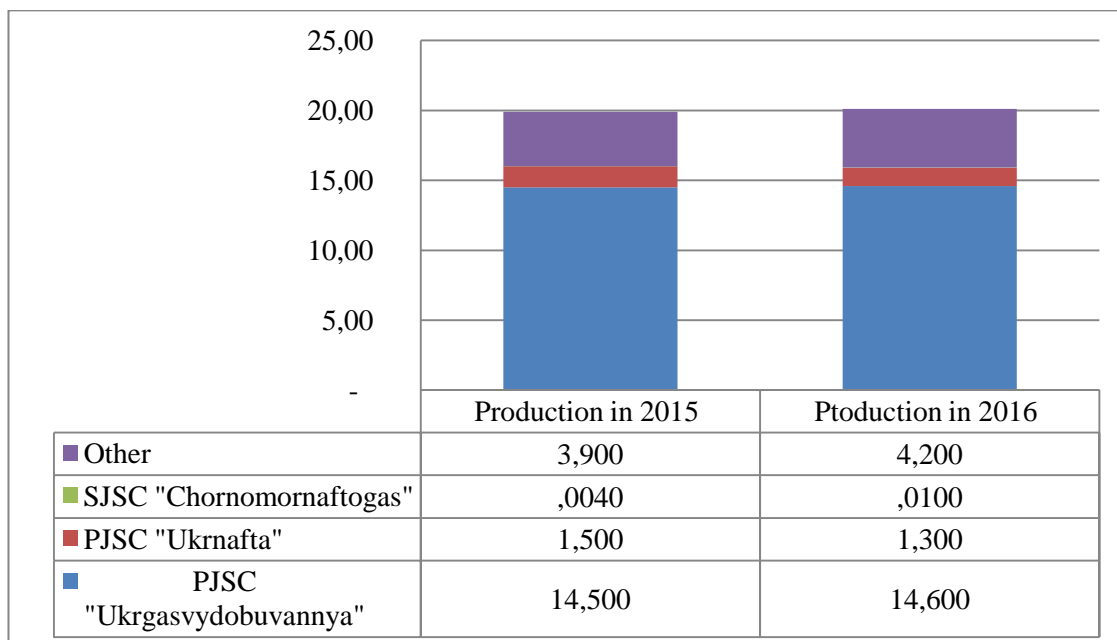


Figure 1: Volumes of natural gas production in 2015 -2016 (billion cubic meters)

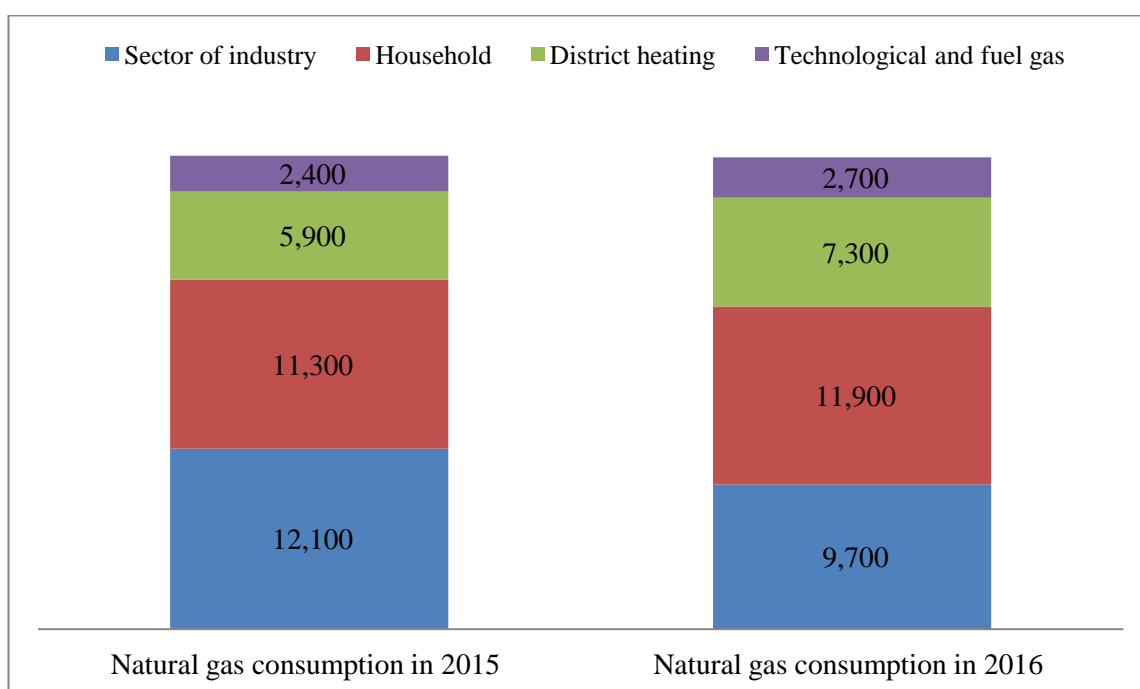


Figure 1: Volumes of natural gas consumption in 2015 -2016 (billion cubic meters)

In 2016 the total volume of natural gas imports was 11.1 billion cubic meters. In general, natural gas supply for the needs of Ukraine had been met at the expense of domestic production and imports and amounted to 31.2 billion cubic meters. Sources of imported natural gas in 2016 are given in Figure 3.

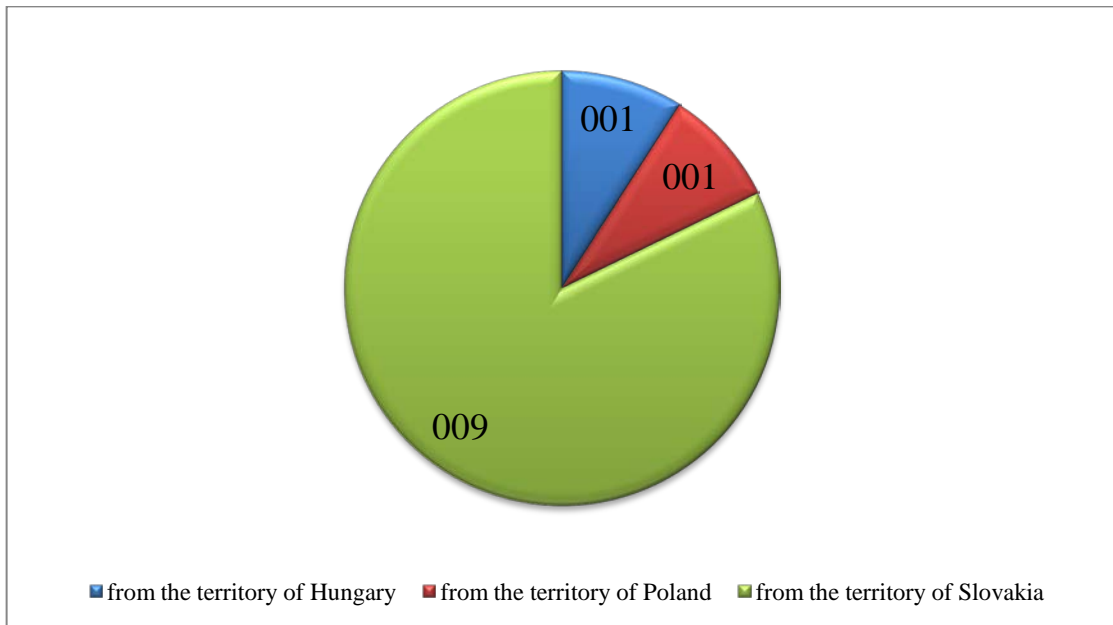


Figure 3: Supplies of imported natural gas according to their sources (billion cubic meters)

Due to the diversification of sources of natural gas supply to Ukraine from European countries in 2016, the amount of imported natural gas for consumers of Ukraine from the territory of the Russian Federation amounted up to 0.0 billion cubic meters of gas (2015 – 6,1 bcm; 2014 – 14,4 bcm), from European countries amounted up to 11,1 billion cubic meters of gas (2015 – 10,3 bcm; 2014 – 5,0 bcm) which comes up to 100.0% of the total imported natural gas. Thus, starting from 2015 the main source of natural gas supply to Ukraine is the territory of European countries.

An important part of the gas transmission system functioning is a network of underground gas storage facilities aimed at overlapping of natural gas consumption in peak periods in the autumn and winter. The system of underground gas storage facilities of PJSC “Ukrtransgaz” consists of 12 storage facilities with total active capacity of over 30.95 billion cubic meters.

Table 2: Volume of active gas in underground storage facilities (bcm)

2014/2015		2015/2016		2016/2017	
At the start of withdrawal season	At the end of withdrawal season	At the start of withdrawal season	At the end of withdrawal season	At the start of withdrawal season	At the end of withdrawal season
16,8	7,6	17,1	8,4	14,7	8,1

Table 3: levels of gas withdrawal volumes from underground storage facilities (mcm)

2014/2015		2015/2016		2016/2017	
Maximum daily withdrawal	Average daily withdrawal	Maximum daily withdrawal	Average daily withdrawal	Maximum daily withdrawal	Average daily withdrawal
132,7	51,1	137,4	57,6	91,9	41,0

In 2016 the average volume of active gas in underground gas storage facilities was 12.0 billion cubic meters.

Detailed description of the active gas volume in the underground storage system in 2016 is given in Figure 4.

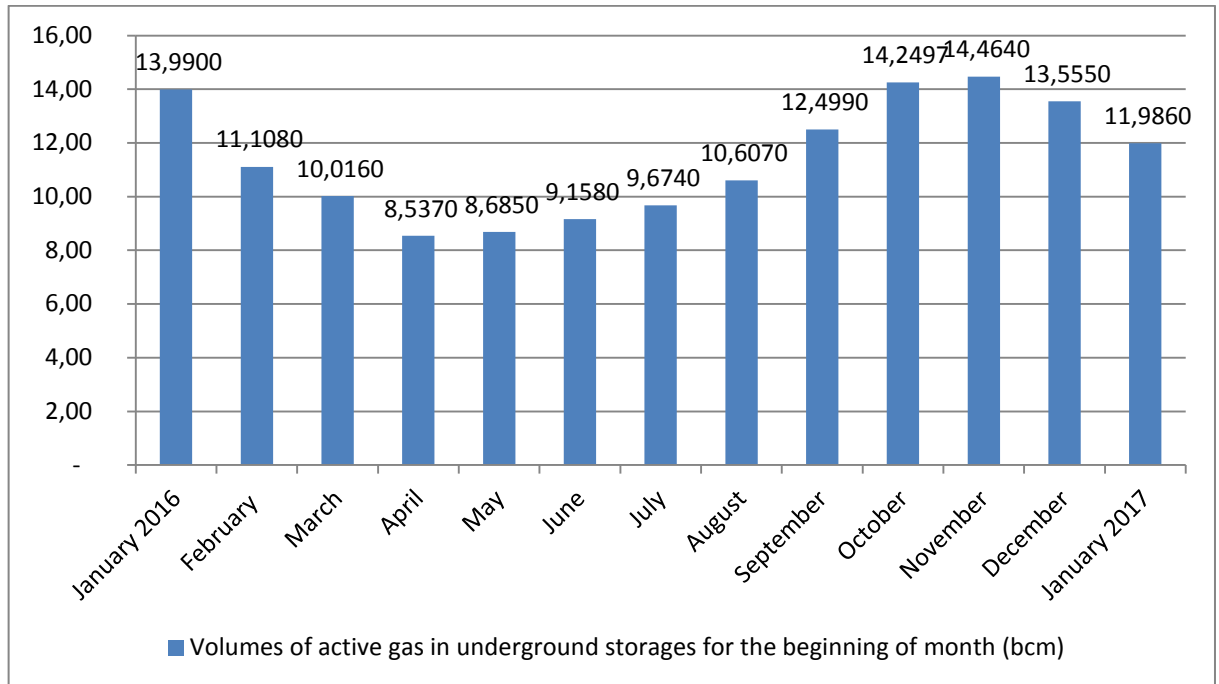


Figure 4: Volumes of active gas in underground storage facilities at the beginning of the month (bcm)

Detailed description of average daily levels of withdrawal and injection of natural gas for 2015 is given in Figure 5.

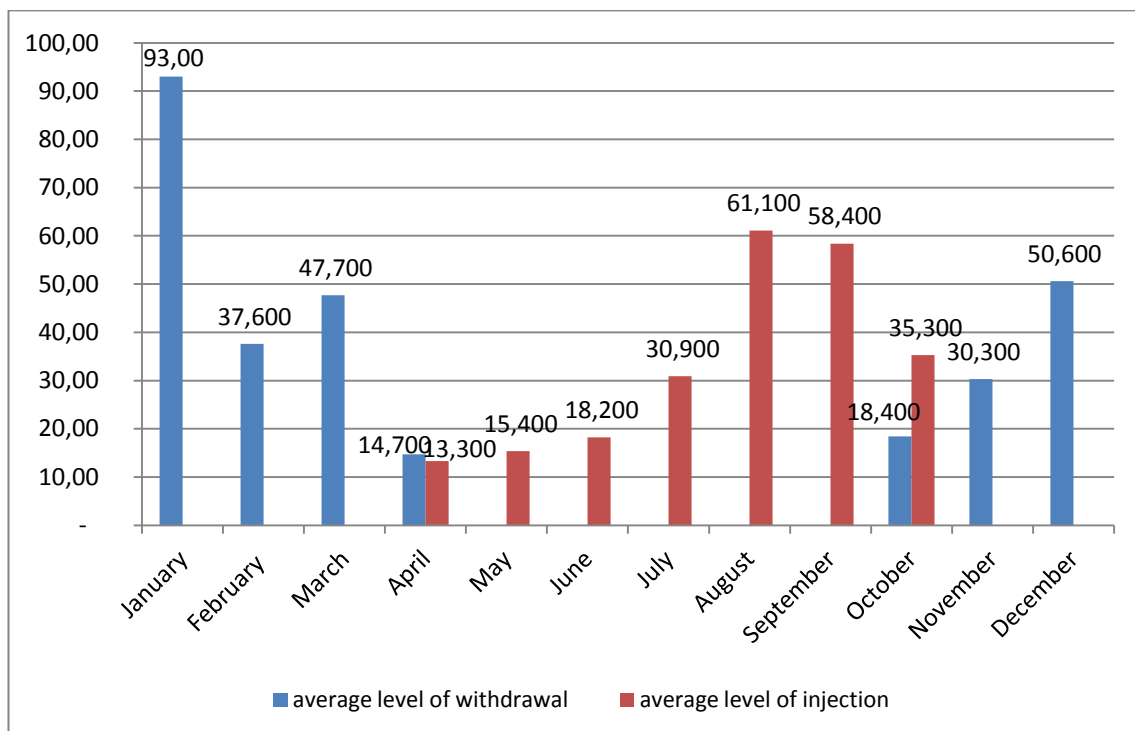


Figure 5: Average levels of withdrawal and injection

3. Status of the gas transmission system interconnections between Ukraine and other countries.

Table 4: Capacities at the cross-border connection points as of 01.01.2017

№п/п	Entry / exit point	mcm/day
ENTRY		
1	Sudzha	327.2
2	Pysarivka	147.6
3	Sokhranivka	140.0
4	Serebrianka	39.6
5	Valuiky	77.6
6	Mozyr	18.3
7	Kobryn	88.0
8	Platovo *	-
9	Hermanovychi	4.3
10	Beregdarots	17.1
11	Budintse	42.5
12	Oleksiiivka	26.5
13	Kaushany	82.2
14	Lymanske	4.6
15	Prohorovka*	-
EXIT		
1	Uzhhorod	281.9
2	Berehovo	40.2

3	Drozdovychi**	14.5 (10.5)
4	Orlovka	81.4
5	Tekovo	13.7
6	Ustylug	1.2
7	Oleksiiivka	7.6
8	Grebinky	91.3
9	Lymanske	4.6
10	Ananiiv	30.4
11	Hermanovychi ***	-
12	Beregdarots ***	-
13	Budintse ***	-
14	Prohorovka *	-

* as of 01.01.2017 – are located on the uncontrolled territory

** in parentheses - the capacity only of MP Komarno – Drozdovychy DN 700 being in operation

*** capacity at specified points will be determined after agreement with the operators of the adjacent GTS

4. Measures to ensure the security of new capacities for gas transmission system.

1. In order to diversify gas supplies to Ukraine and to integrate the Ukrainian GTS into the European System of GTS, PJSC “UKRTRANSGAZ” is working on “Construction of Gas Interconnector Ukraine – Poland”.
2. At the end of 2015 the Parties have completed the development of a joint feasibility study of gas Interconnector construction “Ukraine – Poland”.
3. Based on the analysis and final recommendations of the Feasibility Study, the Parties decided to proceed to the design stage.
4. On December 6, 2016 the Rules of Cooperation were agreed for implementation of the project to establish the principles of cooperation between GAZ-SYSTEM S.A. and PJSC “UKRTRANSGAZ” during the design and construction of the pipeline.
5. The project provides the activities aimed at implementation of basic and detailed technical project by the end of 2018. Implementation of measures related to construction and commissioning of the Gas Interconnector Poland - Ukraine by the end of 2020.
6. Planned Gas Interconnector Poland - Ukraine includes: on behalf of Poland – construction of the pipeline DN700 Hermanovychi-Strahotsina (72 km) and the pipeline of DN1000 from Hermanovychi to the Poland-Ukraine border (1.5 km) on the Polish side, including the border compressor station and metering station in Strahotsina; on behalf of Ukraine –construction of the pipeline DN1000 from the Poland-Ukraine border to Bilche-Volytsya on the Ukrainian side (99.3 km) including the control metering station.

7. In July 2016, GAZ-SYSTEM S.A. received the corporate approval to proceed to the design stage and started the engineering works in Poland.
8. On the Ukrainian side: the positive report of the State expertise on the stage of Feasibility Study “Construction of Gas Interconnector “Drozdovychy - Bilche-Volytsya” was made (Ukrainian part of the Gas Interconnector between the Ukraine and Poland).
9. The design documentation for the object “Construction of Gas Interconnector “Drozdovychy - Bilche-Volytsya (stage P)” was developed and the positive report of the State expertise was received.
10. The preparatory works on land acquisition are underway.
11. PJSC “UKRTRANSGAZ” decided to implement the project “Construction of Gas Interconnector “Drozdovychy - Bilche-Volytsya” at its own expense.
12. In addition, the project is included in the Ten-Year Development Plan for 2015-2025 of ENTSOG and the list of Projects of Common Interest in the Energy Community (PMI).

5. Technical condition of the gas transmission system.

Transmission system characteristics	Unit	Number
1 The length of the pipelines, in total, Including: - gas main pipelines - gas pipeline branches - distribution pipelines	km	35 576,426 20 636,721 12 611,912 2 327,793
<i>1.1. The length of the pipelines located on the temporarily occupied territory of Ukraine (hereinafter - TOT Crimea), total</i> <i>include.: - gas main pipelines</i> <i>- gas pipeline branches</i> <i>- distribution pipelines</i>	<i>km</i>	525,047 323,739 174,573 26,735
<i>1.2. the length of the pipelines located on the temporarily uncontrolled territory of Ukraine (hereinafter – TUC of Ukraine), total</i> <i>include.: - gas main pipelines</i> <i>- gas pipeline branches</i> <i>- distribution pipelines</i>	<i>km</i>	1928,766 1155,187 709,812 63,767
2 Capacity of gas transportation system: - entry points of adjacent GTS - exit points to adjacent GTS	bcm/year	304,0 145,8
3 Number of compressor stations (compressor plants) <i>including</i>	pcs.	73 (111)
- <i>TUC of Ukraine</i>	<i>pcs.</i>	<i>3 (3)</i>
- <i>decommissioned</i>	<i>pcs.</i>	<i>0 (2)</i>
- <i>property of PJSC "GASTRANZIT" (reference)</i>	<i>pcs.</i>	<i>1 (1)</i>
4 Number of gas pumping units <i>including</i>	pcs.	705
- <i>TUC of Ukraine</i>	<i>pcs.</i>	<i>35</i>
- <i>decommissioned</i>	<i>pcs.</i>	<i>25</i>
- <i>property of PJSC "GASTRANZIT" (reference)</i>	<i>pcs.</i>	<i>3</i>
5 Capacity of compressor stations <i>including</i>	MW	5496
- <i>TUC of Ukraine</i>	<i>MW</i>	<i>175</i>
- <i>decommissioned</i>	<i>MW</i>	<i>113</i>
- <i>property of PJSC "GASTRANZIT" (reference)</i>	<i>MW</i>	<i>48</i>
6 Number of underground gas storage facilities (UGS)	pcs.	12
- <i>including TUC of Ukraine</i>	<i>pcs.</i>	<i>1</i>
7 Design UGS active capacity for cycle operation	bcm	30,95
- <i>including TUC of Ukraine</i>	<i>bcm</i>	<i>0,4</i>
8 Number of gas distribution stations (GDS)	pcs.	1392
<i>8.1. Number of GDS at TOT Crimea</i>	<i>pcs.</i>	<i>13</i>
<i>8.2. Number of GDS at TUC of Ukraine</i>	<i>pcs.</i>	<i>70</i>
9 Employment	person	20496

According to the schedule of preparation of PJSC “UKRTRANSGAZ” facilities for work during the autumn-winter period 2016/2017 as of 01.10.2016 the significant range of works was carried out, including:

The linear part of main gas pipelines:

- 57.4 km of pipelines linear parts;
- an instrumental survey of 1859.1 km of pipelines;
- overhaul of 6 water crossings of pipelines;
- 538 items of underwater and 244 items of above water crossings of the pipelines.

Gas distribution stations:

- reconstruction and repair of 301GDS;
- overhaul of 613 items of systems of automatic fire alarm and fire-fighting system.

Compressor stations:

- midlife and capital repairs of 21 items of GPU;
- overhaul of 193 items of systems of fire alarm and fire-fighting system.

Underground gas storage facilities:

- overhaul of 27 wells;

It was inspected technical condition of gas drying units, regeneration and gas drainage pumps, chemical pumps, as well as repaired and inspected pipelines and valve components, maintained and cleaned processing tanks.

Maintenance of heating, energy and water supply:

- 15.9 km of electricity transmission lines;
- 10 boiler houses and 58 boilers;
- 21 boiler houses and 46 boilers;
- 8.21 km of heating mains;
- 6.31 km of external fire-fighting mains;

Repair of fleet vehicles:

- 7499.5 motor vehicles;

Repair of communication line:

- 7,499.5 km of cable lines.

Procurement of:

- 2024.4 combustive-lubricating materials, including 202.2 tones of technical oil;
- 711.7 tones of chemicals, including 421,2 tones of diethylene glycol, 164.0 tones of methanol and 126.5 tones of odorant.

According to the orders of PJSC “UKRTRANSGAZ” and branches, the committees have been formed to verify the execution of works on the preparation of

industrial facilities and social and cultural facilities for work in the autumn-winter period.

Based on the analysis of the implementation of organizational and technical measures for preparation of the industrial facilities and social and cultural facilities for work in winter conditions and also based on the reports and acts of committees inspections, in general, the committee of PJSC “UKRTRANSGAZ” determined satisfactory measures implementation for PJSC “UKRTRANSGAZ” facilities in preparation works for autumn and winter periods of 2016/2017, the readiness of PJSC “UKRTRANSGAZ” gas transportation system for operation in the autumn and winter periods of 2016/2017. The committee issued certificates of readiness for all branches.

PJSC “UKRTRANSGAZ” continues implementation of the investment project **“Reconstruction of compressor station “Bar” of the “Soyuz” gas pipeline”**, for financing of which the loan agreement under the guarantees of the Government of Ukraine has been concluded between “Deutsche Bank AG” and PJSC “UKRTRANSGAZ” on 11.12.2012. According to the procurement agreement the “Feasibility Study” (FS) was developed between PJSC “UKRTRANSGAZ” and “Ferrostaal Industrieanlagen GmbH”, which was approved by the Cabinet of Ministers of Ukraine regulation No.1403 dated 30.12.2015.

According to the terms of the Contract, Ferrostaal Industrieanlagen GmbH is in process of the development of design documentation at the stages of “Project” and “Working documentation”. On 01.03.17 the design documentation of the “Project” stage has been submitted for state expertise. The deadline for the development of design documentation at the stage of “Working documentation” is August 2017.

Based on FS results, the following investment performance indicators are determined: the discounted payback period of capital investments is 3.26 years, the internal rate of return is 68.44%.

6. Measures of PJSC "UKRTRANSGAZ" directed to meet peak demand

In order to prepare PJSC “UKRTRANSGAZ” branches for the autumn-winter period of 2016/2017, planned and preventive maintenance services have been performed having an impact on Russian gas transit to European countries and being mutually coordinated by PJSC “Gazprom” and shipping countries. During 2016, 16 complexes of planned services and preventive maintenance were timely carried out in line with the approved time schedule.

Among key organizational and technical measures for PJSC “UKRTRANSGAZ” operation in 2016/2017 autumn-winter period, there is an essential component - natural gas injection into the underground storage facilities.

The measures envisaged the injection of 8.6 billion cubic meters of gas for 2016. 6.4 billion cubic meters of gas were injected and that was 3.1 billion cubic meters less compared with the same period of last year. At the same time, availability of natural gas in PJSC “UKRTRANSGAZ” UGS was about 14.7 billion cubic meters, which was 2.4 billion cubic meters less than in 2015.