



# Russian War Against Ukraine: Energy Dimension

DiXi Group alert

(status as of 12:00, June 12)

#StopRussianAggression

#StandWithUkraine

## Summary

- **App. 644,800 consumers all over Ukraine did not have electricity supply, and 177,000 consumers remained without gas supply.**
- According to the Kramatorsk City Council, as a result of shelling on June 11, **power lines in the area of Toretsk were damaged**, causing Ukrenergo substations to be shut down in the region. All major cities in the free territory of the Donetsk region were left without electricity, including Kramatorsk, Slovyansk, Kostiantynivka, Druzhkivka, and Bakhmut.
- Energoatom reported on **the resumption of data transfer on nuclear materials control to the IAEA from the Zaporizhzhia NPP servers**. The connection was lost on May 30, when the Russian occupiers cut off Vodafone's operation in Energodar. All data for this period were stored on the secure ZNPP servers and were transferred to the IAEA after the connection was resumed.
- Ukraine's top officials expressed **expectations of granting Ukraine the EU candidate country status**, which should be legally binding, as a win-win decision.
- A draft law registered at the Verkhovna Rada proposes to introduce **a new investment mechanism during the martial law - "special investment activity"**, including state aid for the projects to develop alternative energy sources, biofuels and food security.

# Nuclear and Radiation Safety

Energoatom [announced](#) the resumption of data transfer on nuclear materials control to the IAEA from the Zaporizhzhia NPP servers. As reported, the connection was lost on May 30, when the Russian occupiers cut off Vodafone's operation in Energodar. Energoatom assured that all data for this period were stored on the secure ZNPP servers and were transferred to the IAEA after the connection was restored. To remind, the IAEA Director General named the Agency's lack of data and the inability to obtain them in the usual way as one of the reasons to conduct a mission to the ZNPP site.

Meanwhile, the mayor of Energodar Dmytro Orlov [warned](#) the residents that on Sunday, June 12, the Russian invaders were preparing provocations. As noted, according to insider information from sources close to the activities of special services of Ukraine, the special services of the Russian Federation in the temporarily occupied cities of the Zaporizhzhia region were preparing provocations against the citizens of Ukraine. Orlov urged residents not to attend mass events planned by the occupiers in Energodar on June 12.

## Electricity Sector:

### ***Power system operation***

Ukraine [continued](#) commercial exports of electricity to Poland via the Dobrotvirsk TPP - Zamosc transmission line at the stable schedule of 210 MW hourly. Also, [according](#) to Ukrenergo, as of June 12, exports to Moldova reached 142 MW. At the daily auction for June 12, Energoatom [booked](#) 150 MW of capacity to Moldova (flat schedule). In addition, technical cross-border flows [continued](#) between the energy systems of Ukraine and Eastern Europe countries (Slovakia, Hungary, Poland, Romania, and Moldova).

Ukrenergo [reported](#) the commissioning of two 330 kV overhead lines in the eastern region after emergency repairs (the lines did not work for less than a day). In the northern region, a 330 kV line was also put into operation. Emergency and recovery works at 750 kV and 330 kV substations continued.

### ***Electricity market performance***

**Day-ahead market (DAM):** On June 12, the weighted average settlement price slightly [decreased](#) and amounted to 2,177.21 UAH/MWh (-1.7% vs the previous day). At the same time, the Base DAM indices of Eastern European countries (Poland, Romania, Slovakia and Hungary) have synchronously decreased to 1.7 times [over](#) the DAM Base index of Ukraine. The total volume of trading significantly decreased to 10,463.8 MWh (-25.5% vs the previous day). According to the Energy Map service, on June 6-12, the volume of trading [ranged](#) from 10.4 to 17.4 GWh. At the same time, on June 12, supply amounted to 111,121.5 MWh (+11.6%), and the gap with the volume of purchase bids reached 10 times. In the [structure of purchase](#), the dominant part (51.9%) was occupied by suppliers, 47.7% by system operators, the remaining 0.4% by producers and traders.

**Intraday market (IDM):** On June 11, the weighted average price of electricity on IDM [increased](#) to 2,592.12 UAH/MWh (+5.7% vs the previous day). The total volume of trading dropped to 441.9 MWh (-54.5% vs the previous day). At the same time, the increase in supply up to 54,555.5 MWh (+6.5%) with other factors contributed to a higher market surplus - the gap with the volume of purchase bids increased from 52 to 123 times. In the [structure of purchase](#), the dominant part (92.1%) was occupied by suppliers, 7.7% by system operators, the other 0.2% by producers.

## ***Disruption and resumption of supply***

[According](#) to the Ministry of Energy, as of June 11, due to hostilities, a total of 644,800 consumers in 720 settlements were disconnected from electricity supply. During the day, electricity supply was resumed to app. 23,700 consumers.

Large-scale power supply disruptions and, consequently, active recovery works were taking place:

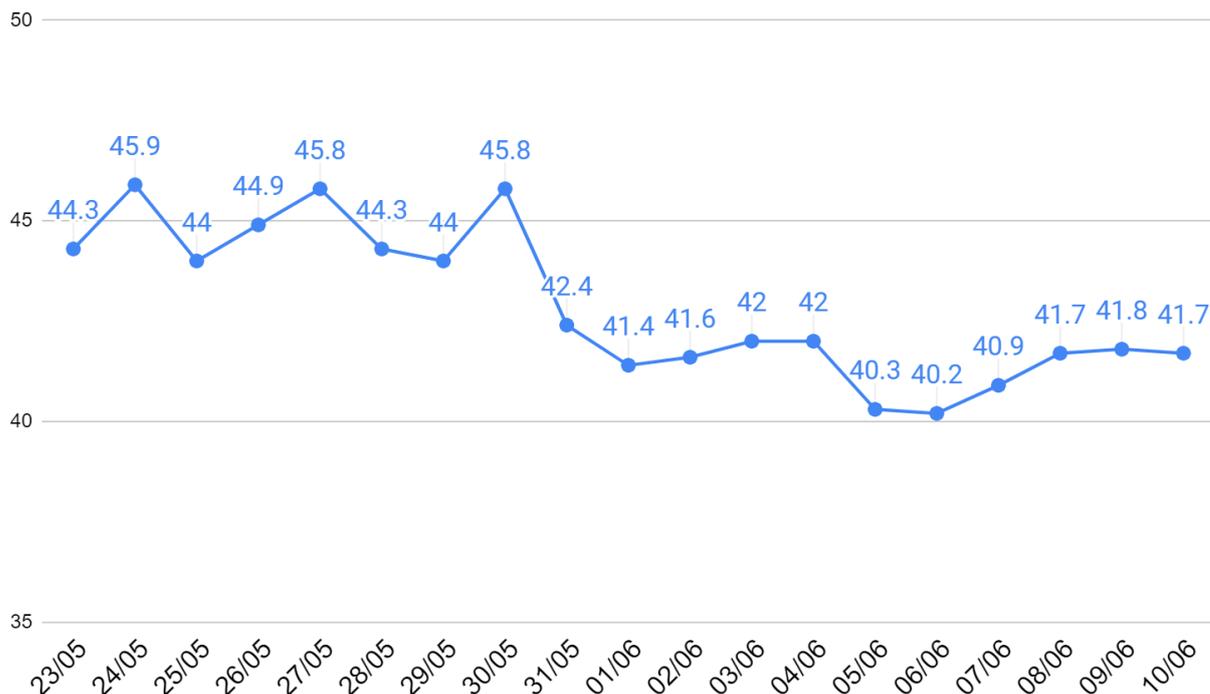
- in the **Donetsk region**, [according](#) to the Kramatorsk City Council, as a result of shelling on June 11, power lines in the area of Toretsk were damaged, causing Ukrenergo substations to be shut down in the region. All major cities in the free territory of the Donetsk region were left without electricity, including Kramatorsk, Slovyansk, Kostiantynivka, Druzhkivka, and Bakhmut ([according](#) to the Ministry of Energy, more than 369,000 consumers). During the day, supplies were restored to 13,900 consumers;
- in the **Luhansk region**, [according](#) to the Ministry of Energy, 128,200 consumers were left without electricity supply;
- in the **Kharkiv region**, [according](#) to the Ministry of Energy, app. 69,300 consumers remained without electricity and supply was restored to 6,100 consumers in the day;
- in the **Zaporizhzhia region**, [according](#) to the local DSO, as of 07:00 on June 12, 21,365 consumers in 76 settlements remained without electricity. During the day, the DSO specialists restored supplies to 464 households in the Orikhiv district and a single disconnection in the grids of the city of Zaporizhzhia. On the morning of June 12, in the temporarily occupied city of Berdyansk, there was [an explosion](#) at a substation, with one of the transformers exploded and failed, leaving part of the city without electricity supply;
- in the **Mykolaiv region**, [according](#) to the Regional Military Administration, as of June 12, 397 power supply facilities were partially or completely damaged, including 5 in the last 24 hours. 92 settlements (4 of them partially) of the Bashtanka and Mykolaiv districts remained without electricity supply;
- in the **Kherson region**, [according](#) to the Ministry of Energy, supply was restored to 800 consumers in the day;
- in the **Dnipropetrovsk region**, [according](#) to the Ministry of Energy, supply was restored to 400 consumers in the day;
- there was no up-to-date consolidated information on power supply in the **Chernihiv, Sumy and Odesa regions** at the time of the review preparation.

## Gas Sector:

As of June 10, the gas transit through the territory of Ukraine almost didn't change as compared to the previous day and amounted to 41.7 mcm. These volumes were only 38% of the capacity contracted by Gazprom (109 mcm per day). There were no transit flows via the Sokhranivka interconnection point.

Physical imports of gas from the EU were reported from the Hermanowice interconnection point (virtual interconnection point "Ukraine-Poland") at 1.1 mcm. At the same time, part of these volumes may be a transit from Poland to Hungary via Ukraine, as on June 10, on Ukraine's gas system exit via the Berehove interconnection point (virtual interconnection point "Bereg") 1.7 mcm of gas was shipped.

## Gas transit through Ukraine (at Sokhranivka and Sudzha interconnection points), mcm



Source: [GTSOU](#)

### Disruption and resumption of supply

The **Donetsk, Luhansk, Zaporizhzhia, Chernihiv, Mykolaiv and Kharkiv regions** had the most challenging situation in gas supply. [According](#) to the Cabinet of Ministers, as of June 11, 177,000 consumers were left with no gas supply. Supply to 1,800 consumers was restored during the day.

In the **Donetsk region**, as of June 11, the situation didn't change: almost the whole region remained without gas supply due to the main gas pipeline damage. Only 1,900 consumers in 2 settlements [had](#) supply.

In the **Luhansk region**, there were no changes in gas supply: it was completely suspended due to hostilities which were deeply destroying the region's critical infrastructure.

In the **Kharkiv region**, the local DSO [reported](#) on the resumption of gas supply to 5,000 consumers in the Pivnichna Saltivka district (Kharkiv). During the repair works, tens of meters of damaged gas pipelines were replaced, and networks in some multi-apartment buildings were reinstalled.

In the **Zaporizhzhia region**, as of the morning of June 12, the [situation almost had not changed](#) - 81,108 consumers in 106 settlements remained without gas supply. The day before, a low-pressure pipeline in the city of Orikhiv was damaged by shelling - 14 consumers were left without gas supply. Due to hostilities and non-admission to the damaged sites, it was impossible to carry out emergency recovery works.

In the **Kherson region**, [as of 11:00 on June 12](#), there was no information regarding any significant change as compared to the previous day: 1 community (Vysokopillia) has completely remained without gas supply and 3 communities (Velyka Oleksandrivka, Novovorontsovka, Stanislav) partially. However, there is no mobile connection in some of these communities, so there is no up-to-date information on gas supply. LPG reserves were running out in 4 communities (Tyahynka, Hornostaivka, Velyka Lepetykha and Rubanivka); in the Novoraysk community, LPG supply had run out.

In the **Mykolaiv region**, as of June 12, the situation with gas supply [has not changed](#) - 631 gas infrastructure facilities were destroyed or damaged for the whole period of war, and 6,578 consumers were left without gas supply.

In the **Ternopil region**, on June 11, gas supply in the city of Chortkiv was [suspended](#) during the elimination of the missile attack consequences.

Operational information on gas supply in the **Sumy and Chernihiv regions** was not available at the time of the review preparation.

## Countermeasures of Ukrainian Companies and Public Authorities

The Vice Prime Minister for European Integration Olga Stefanishyna [stated](#) that the decision to grant Ukraine the candidate status at the EU summit on June 23-24 should be legally binding. According to her, all other formats are unacceptable, as they are political promises and have no legal obligations. In turn, the President of Ukraine Volodymyr Zelenskyi in a [video](#) address stressed that the decision to grant Ukraine the candidate status will strengthen not only the country but the entire EU. The Minister of Foreign Affairs Dmytro Kuleba also [called](#) the decision on granting Ukraine the candidate status a win-win for everyone. He also urged some European countries to overcome stereotypes and fears about Ukraine.

A draft law ([reg. No.7456](#) of June 10, 2022) was submitted to the Verkhovna Rada, which proposes to introduce a new investment mechanism in Ukraine - "special investment activity". In particular, the draft law provides for:

- introduction of a mechanism of special investment projects, with such instruments of state aid as free / preferential provision of land, transportation, purchase of equipment, settlement of employees, connection to electricity, district heating, gas, water supply, and direct budget financing;
- the maximum amounts of funding for different business entities are determined; special investment projects for the development of alternative energy sources, biofuels and food security can be financed without restrictions;
- special investment projects are implemented only during the martial law;
- foreign entities, foreign and international financial institutions may also carry out investment activities;
- list of investment sources includes grants from foreign countries, foreign and international financial institutions;
- foreign investors, who have provided financial assistance to Ukraine at 1+ billion EUR are provided with guaranteed state aid in the form of free provision of land (up to 10 hectares for a period of 5 to 10 years) or property complexes (up to 15,000 square meters).

### **Sources:**

*The alerts are developed based on collected, verified, and analyzed information reports of over 100 official sources: ministries, state agencies, network operators, and energy companies. Information was collected only from official websites and official social media accounts.*

For subscriptions, comments and other questions, please email to: [author@dixigroup.org](mailto:author@dixigroup.org)

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Prior to transferring funds, please [email to the Energy Community Secretariat](#)

## **SUPPORT UKRAINIAN ARMY**

To financially support Heroic Ukrainian Army, please follow the [link](#) (The National Bank of Ukraine)