

# INFORMATION DIGEST

NOVEMBER 19-25, 2024



## Status of the Ukrainian nuclear power plants and the nuclear industry of Ukraine

- According to the JSC "NNEGC "Energoatom", on November 19-25, 2024, power units of Ukrainian nuclear power plants which are located on the territory controlled by Ukraine worked to meet the needs of the population and the country's economy.
- The IAEA teams present at the Khmelnytsky, Rivne and South Ukraine NPPs and the Chernobyl site reported that nuclear safety and security is being maintained despite the grid instability and the effects of the ongoing war, including a number of air raid alarms over the past week.

Ukraine's power system is also a growing concern for nuclear safety at its three operating NPPs – Khmelnytsky, Rivne and South Ukraine – which require a reliable and stable connection to the national grid both to transmit the electricity they generate and to receive the off-site power they need for vital nuclear safety functions.

The risks they are facing were highlighted last weekend, when Ukraine's energy infrastructure was reportedly targeted in widespread attacks, less than three months after military strikes caused extensive damage to a number of electrical substations across the country, which the IAEA has identified as important for nuclear safety.

Four of these substations and their power lines were impacted again by the attacks during the night of 16 November and early morning of 17 November, prompting Ukraine's operating NPPs to reduce their power output as a precautionary measure. The NPPs in recent days gradually started restoring the power lines and began increasing output, but again lowered power generation this morning as a precaution, before it was once again restored.

Separately, the South Ukraine NPP disconnected from its two 750 kV power lines for maintenance. It still received power from its back-up systems.

### Current situation on Zaporizhzhia NPP

- According to the JSC "NNEGC "Energoatom", last week, Zaporizhzhia NPP was twice on the verge of a complete blackout, which posed a grave threat to nuclear and radiation safety. The reason for this was shelling by the Russian occupiers, which damaged one of the power lines on the right bank of the Dnipro River in the territory controlled by Ukraine.

Due to the high threat of repeated shelling, power engineers have been unable to access the damaged area to carry out repairs until today. Owing to the hard work



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of Ukrainian power professionals, the line has been restored, so the plant is now powered from two sources. This allows us to maintain the power units that are in a state of cold shutdown. At the same time, the situation remains critical. Just the complete return of Zaporizhzhia NPP under the control of Energoatom can guarantee nuclear and radiation safety, eliminating further risks arising from the actions of the Russian occupiers.

"For the second time in a week, Zaporizhzhia NPP is on the verge of a complete blackout. This is a consequence of targeted attacks by the Russian occupiers, which jeopardize not only the nuclear safety of Ukraine but also the stability of the entire European region. The hostilities create catastrophic risks," said Energoatom CEO Petro Kotin.

## Current situation on Chornobyl NPP and in the Exclusion Zone

- On November 19-25, 2024, the radiation situation at the ChNPP site was without changes. The monitored parameters of the equipment were within the boundaries set by the technological regulations. Operating personnel continues to ensure nuclear and radiation safety.

## War in Ukraine

- On November 25, 2024 is the 1006 day of the resistance Ukraine to the Russian military invasion.
- According to the General Staff of the Armed Forces of Ukraine [AFU], every day more than one hundred combat engagements have taken place on the frontline. Russians are most active in the Pokrovsk, Kurakhove directions in the east and Vremivka direction in the south. Ukrainian defenders are stopping the enemy, holding the line.
- On the night of 25 November 2024, units of the Defence Intelligence of Ukraine, together with other components of the Defence Forces, attacked a number of important occupiers' facilities, in particular in the Bryansk, Kaluga and Kursk regions of Russia. The results of combat work on other targets are being clarified. "The joint successful combat work of all components of the Defence Forces against important targets of the Russian invaders will continue," the General Staff emphasizes.
- **The situation in the north**
- The operational situation in the Volyn and Polissia sectors remained unchanged. No signs of the formation of enemy offensive groups have been detected. On the border with Chernihiv and Sumy regions, the enemy maintains a military presence, conducts reconnaissance activities and artillery shelling.
- On November 22, Russian troops fired 55 times at the border areas and settlements of the Sumy region using drones, artillery and mortars. 127 explosions were recorded. On November 21, the authorities in Krasnopillya, Sumy region, announced a mandatory evacuation of the population to safer areas.
- **Hostilities in the Kharkiv region**
- In the Kharkiv direction, Russians stormed the positions of our defenders near the town of Vovchansk.
- In the Kupiansk direction, the enemy tried to advance to Ukrainian positions near



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the settlement of Zelenyi Hai.

- **Hostilities in Donbas**

- russian military increased the number of attacks to 12 in the Lyman direction.
- The russian army is amassing at the Kramatorsk and Siversk directions, but is not conducting active operations. On the contrary, russians are actively storming Ukrainian positions in Toretsk and "advancing at an incredible speed. In the area there are about 1,500 attacks per day and 10 to 20 air strikes. The russians can drop up to 30 guided aerial bombs daily. This completely erases the cities of the Donetsk and Luhansk regions.
- russians are currently highly active in the Pokrovsk direction. The situation remains tense in the Kurakhove direction.
- A "threatening" situation has developed in the city of Chasiv Yar in the Donetsk region, the enemy has amassed a large number of troops near the city to attack. Ukrainian defenders are now managing to hold back the russian invaders' attacks, but the situation is threatening.

- **The situation in the south**

- In south, in the Orikhiv sector, enemy units tried to advance once in the vicinity of Piatykhvatky. In the Prydniprovskiy sector, Ukrainian troops repelled five attacks by russian invaders on Ukrainian troops' positions.

- **The situation in other directions**

- In other directions, the enemy is conducting air strikes and artillery attacks on the positions of Ukrainian troops and populated areas.
- **Strikes on the territory of Ukraine.** On November 25, russian troops attacked the village of Solonchaky in the Mykolaiv region with an FPV drone at people during the distribution of humanitarian aid. According to the regional military administration, five people were wounded - both representatives of the humanitarian mission and local residents.
- On 25 November, the russian army launched a missile attack at the city of Kharkiv. According to preliminary investigations, the S-400 missile hit the ground in a densely populated residential area. The number of people injured in Kharkiv has risen to 23 after a morning missile attack.
- For the second Monday in a row, russian terrorists have shelled the centre of Odesa. On November 25, the missile strike damaged civilian infrastructure: residential buildings, cars, a dentist, a beauty salon, shops, flower shops, and people's cars. Two educational institutions were also damaged - a school and a university gym. the Ministry of Internal Affairs of Ukraine reported that the number of victims of the russian strike had increased to 10. Five people were rescued.
- On the night of November 25, 2024, the invaders attacked Ukraine with Shahed-type strike UAVs and unidentified drones. 71 drones of 145 Shaheds were shot down in Kyiv, Cherkasy, Kirovohrad, Chernihiv, Sumy, Kharkiv, Poltava, Zhytomyr, Zaporizhzhia, Donetsk, Dnipro, Odesa, Mykolaiv, and Kherson regions. Another drones disappeared from radar
- This night, the enemy attacked the energy infrastructure of Mykolaiv region with drones. The nighttime enemy attack on the energy infrastructure resulted in power outages. Power engineers have already reconnected most of the consumers, and



restoration works are ongoing. There were no casualties

- On the night of November 24, 2024, Russia attacked Ukraine with Shahed UAVs and unidentified drones from Orel and Bryansk region: 50 out of 73 Shaheds destroyed, 19 more lost locally. About 10 Shaheds destroyed over Kyiv: no casualties or damage reported.
- On Friday, November 22, starting at 1.30 a.m., the occupiers attacked Ukraine with Shahed-type attack UAVs and unidentified drones from the Russian city of Orel. Air defense forces destroyed 64 Russian drones.
- On November 21, Russia attacked the city of Kryvyi Rih. 26 people wounded, including two children, partially destroyed administrative building.
- On the night of 19 November 2024, Russian troops attacked Ukraine with 87 Shahed-type attack UAVs and unidentified drones: 51 out of 87 "Shaheds" destroyed, 30 more lost locally - Air Force.
- On the evening of 19 November, a Russian drone hit a multi-storey building in the town of Hlukhiv, Sumy region. 12 people were killed, one of them was a child. Eleven people were wounded, including two children.

*Sources: t.me/V\_Zelenskiy\_official, t.me/energoatom\_ua, Centre for Strategic Communication, Ministry of Defense of Ukraine, the National Police of Ukraine censor.net, Ukrainska Pravda, radiosvoboda.org, eurointegration.com.ua*



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***Consequences of russian attack on Odesa city center on the morning of November 25: number of casualties increased to 10, one person in critical condition.***



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*Consequences of the attack on Odesa*



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*On the morning of 25 November 2024, russian troops launched a missile attack on the city of Kharkiv.*



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*Consequences of the attack on Kharkiv*



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*russian attack on Dnipropetrovsk region on 21 November: 31 injured in the city of Kryvyi Rih, three in the city of Dnipro.*



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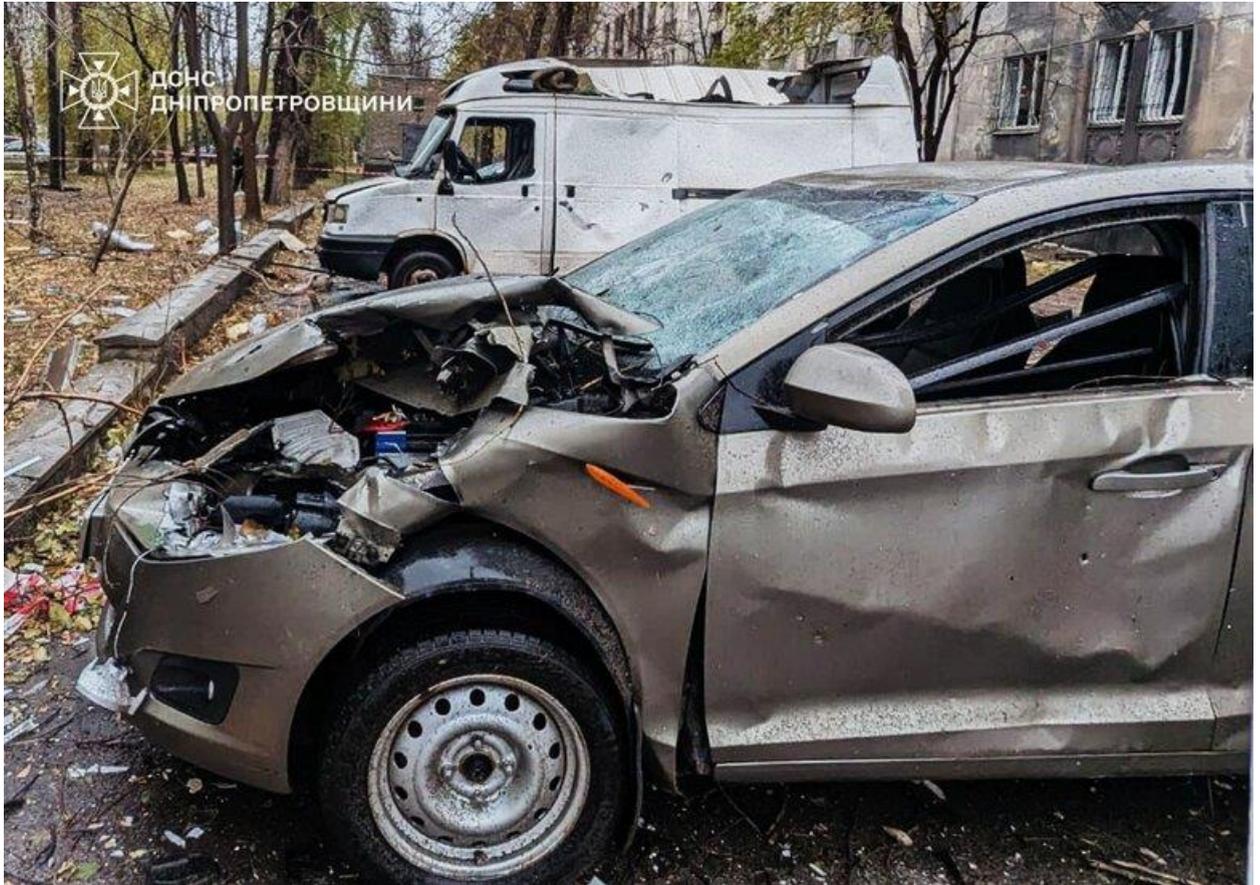


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DEAR COLLEAGUES

THE UKRAINIAN NUCLEAR SOCIETY IS ACTIVELY ENGAGED IN VOLUNTEER ACTIVITIES, HELPING OUR COLLEAGUES FROM NUCLEAR POWER PLANTS, REFUGEES FROM THE ZAPORIZHZHIA NPP, AS WELL AS OUR MEMBERS WHO JOINED THE ARMED FORCES TO DEFENDED OUR COUNTRY.

SUPPORT THE ANS-ENS UKRAINIAN NUCLEAR WORKERS HUMANITARIAN FUND

WE ARE VERY GRATEFUL FOR ANY HELP AND SUPPORT!

STAND WITH UKRAINE



LINK TO SUPPORT



PRESENTATION ABOUT VOLUNTEER ACTIVITIES

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Support Ukraine's nuclear workers and their families impacted by war.

