

# INFORMATION DIGEST

JANUARY 1-5, 2024



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

- According to SE NNEGC Energoatom, on January 1-5, 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. IAEA experts at the Rivne, Khmelnytsky, South Ukraine NPPs and the Chernobyl site continue to report that nuclear safety and security is being maintained.

### Current situation on Zaporizhzhya NPP

- According to the SE NNEGC Energoatom on January 1-5, 2024, the Zaporizhzhya NPP received power for its in-house needs from the energy system of Ukraine. On January 1-5, 2023, the exposure dose rate of gamma radiation in the area where the Zaporizhzhya NPP complied with current standards.
- According to the International Atomic Energy Agency [IAEA] Zaporizhzhya NPP took measures to ensure the supply of backup electricity in case of loss of the main external power line, as has happened many times during the full-scale war. Frequent power outages remain a source of serious concern for the safety and security of Europe's largest nuclear power plant (NPP), as it needs electricity to cool its reactors and other critical functions even when all reactor units have been shut down. Thus, since August 2022, ZNPP has experienced eight off-site power loss events.

After the disconnection of the only 750 kV line remaining at ZNPP, the plant can still access electricity from outside its boundaries through the 330 kV backup line, if it remains connected to the grid. However, from mid-2023, this line will require manual intervention to operate.

The IAEA statement said that the plant has carried out work on the backup electrical transformers, and two of the three are now operational, and one of these two is permanently connected to the backup power lines at the site of all six reactor units. "This means that if the main power supply through the 750 kV switchgear is lost, the backup line will automatically be able to provide power to the plant without manual and therefore delayed intervention, provided it remains in good working order," said IAEA Director General Rafael Mariano Grossi.

Five of ZNPP's six reactors remain in cold shutdown, and the fourth unit is in hot shutdown to produce steam and heat, including for the city of Enerhodar, where most of the plant's personnel live.



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- It is known that the russians do not allow IAEA experts access to the reactor halls of three power units of Zaporizhzhia NPP. The International Atomic Energy Agency reported that the russian occupiers prohibited its experts from inspecting the reactor halls of three power units of the Zaporizhzhya NPP. The IAEA experts "have not had access to the reactor halls of units 1, 2 and 6 for the past two weeks," said the agency's Director General Rafael Grossi. He added that "this is the first time that IAEA experts have not been granted access to the reactor hall of a unit that was on cold shutdown," and the team will continue to request this access.

### **Current situation on Chernobyl NPP and in the Exclusion Zone**

- On January 1-5, 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 January 5, 2024, is the 681 day of the resistance Ukraine to the russian military invasion.
- According the General Staff of the Armed Forces of Ukraine, the russian federation continues to wage a war of aggression. Despite significant losses, it does not abandon its plans for the complete occupation of Ukraine. russia continues to ignore the laws and customs of war, uses terror tactics, launches strikes, and shells both military and civilian targets.
- The operational situation in the east and south of Ukraine remains difficult. russian military continue intensive offensive operations in the Kupiansk and Bakhmut directions and regroupes in the Lyman direction. russians have reduced number of infantry attacks and is actively carrying out airstrikes in Tavria direction. They are most active near Avdiivka and in the Marinsky direction.
- In the south russians do not abandon their intention to knock Ukrainian units out of their footholds on the left bank of the Dnipro. the enemy carried out 8 unsuccessful assault operations, but Ukrainian soldiers continue to hold their positions and inflict significant losses on the enemy. A lot of settlements long the entire front line came under artillery and mortar fire.
- The situation in the north direction remained unchanged. There were no signs of offensive groups forming. Construction of fortifications is being strengthened in Sumy region of Ukraine. Certain units of the belarusian Armed Forces are performing tasks in the areas bordering Ukraine.
- On January 4, powerful explosions struck the cities of Yevpatoriia and Sevastopol (Crimea). The traffic on the Crimean Bridge was suspended at the time. One of the Ukrainian missiles hit the command post in Yukharyna Balka airfield in Sevastopol. The Office of Strategic Communications of the Commander-in-Chief of the Armed Forces of Ukraine confirmed the damage to the command post in Sevastopol.
- In the late evening of January 4, reports circulated of explosions in the Kerch Strait area, repulsion of attacks near Sevastopol, evacuation of a hundred people, and



strikes near the town of Saky. On January 4, the Russian Defence Ministry claimed that ten missiles had been shot down over Crimea and one drone over the Black Sea, while on the night of January 4-5, another 36 drones had supposedly been shot down over the peninsula.

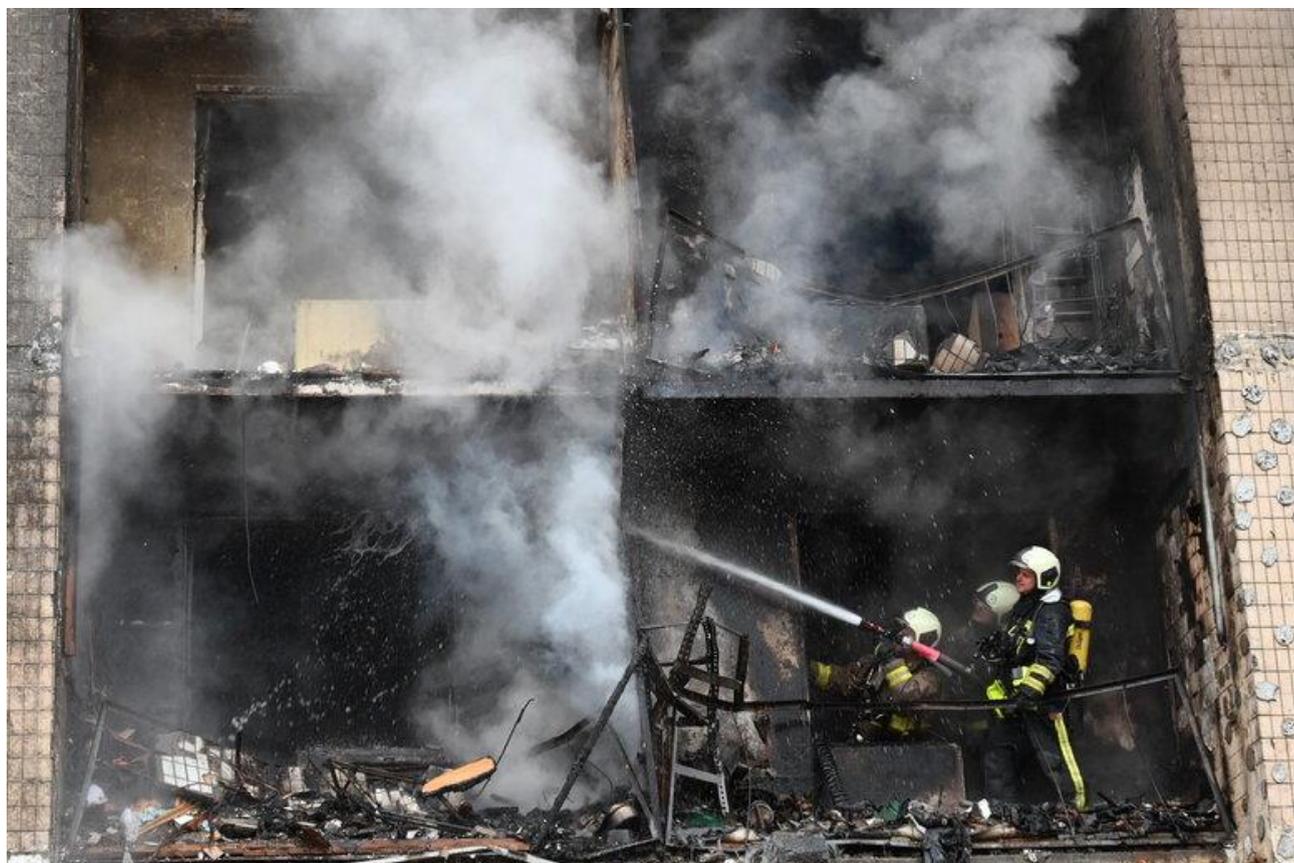
- The attack on Russia's military facilities in occupied Crimea on January 4 destroyed not only a command post but also severely damaged the Russian defence system on the peninsula. Ukraine's Defence Forces also targeted the new deployment of Shahed kamikaze UAVs on the peninsula. Source: Nataliia Humeniuk, Head of the Joint Press Centre for Operational Command Pivden (South).
- Emergency and rescue operations have been completed in Ukraine after massive missile attack on Ukraine on December 29, 2023: 18 settlements in 10 regions were affected; 53 people killed [32 of them in the capital, Kyiv] and 170 injured.
- Data update on the consequences of the missile strike on January 2, 2024: on January 2: four people were killed and there is information about 92 wounded.
- Ukraine's Air Force has shot down 21 of the 29 Russian kamikaze UAVs launched on Ukraine on the night of January 4-5.
- Ukrainian Ground Forces and Kharkiv Oblast authorities have denied the likelihood of a major Russian offensive in the near future.

Details: The British newspaper The Telegraph, citing unnamed sources in Ukrainian intelligence, claimed that the Russian Armed Forces are supposedly planning a new "large-scale offensive" into Kharkiv Oblast in the coming weeks, or at least the Ukrainian army is preparing for it. The recent massive missile attacks on Kharkiv and the oblast are purportedly a harbinger of this, with more attacks possible over the coming weekends. Oleh Syniehubov, Head of Kharkiv Oblast Military Administration, commenting on the article, noted that no clusters of Russian forces have been recorded in different frontline areas in Kharkiv Oblast. At the same time, Syniehubov added that Russia had not abandoned its plans to occupy Kharkiv Oblast.

- One of DTEK's thermal power plants (TPPs) in the frontline area was once again attacked by Russian troops on January 4. No one was injured in the attack, but the plant's equipment was badly damaged. [DTEK's is the one of the main energy supply companies in Ukraine]. Amid the beginning of the working week, the resumption of business activity after the holidays and the cold snap, Ukraine has seen an increase in electricity consumption. To help the system operate in difficult conditions, the power company urged people to follow the rules of rational use of electrical appliances.

*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*





***Consequences of massive attack on Kyiv and its region on January 2: private houses, 11 multi-storey buildings, 2 schools, more than 60 cars, a number of enterprises were damaged.***



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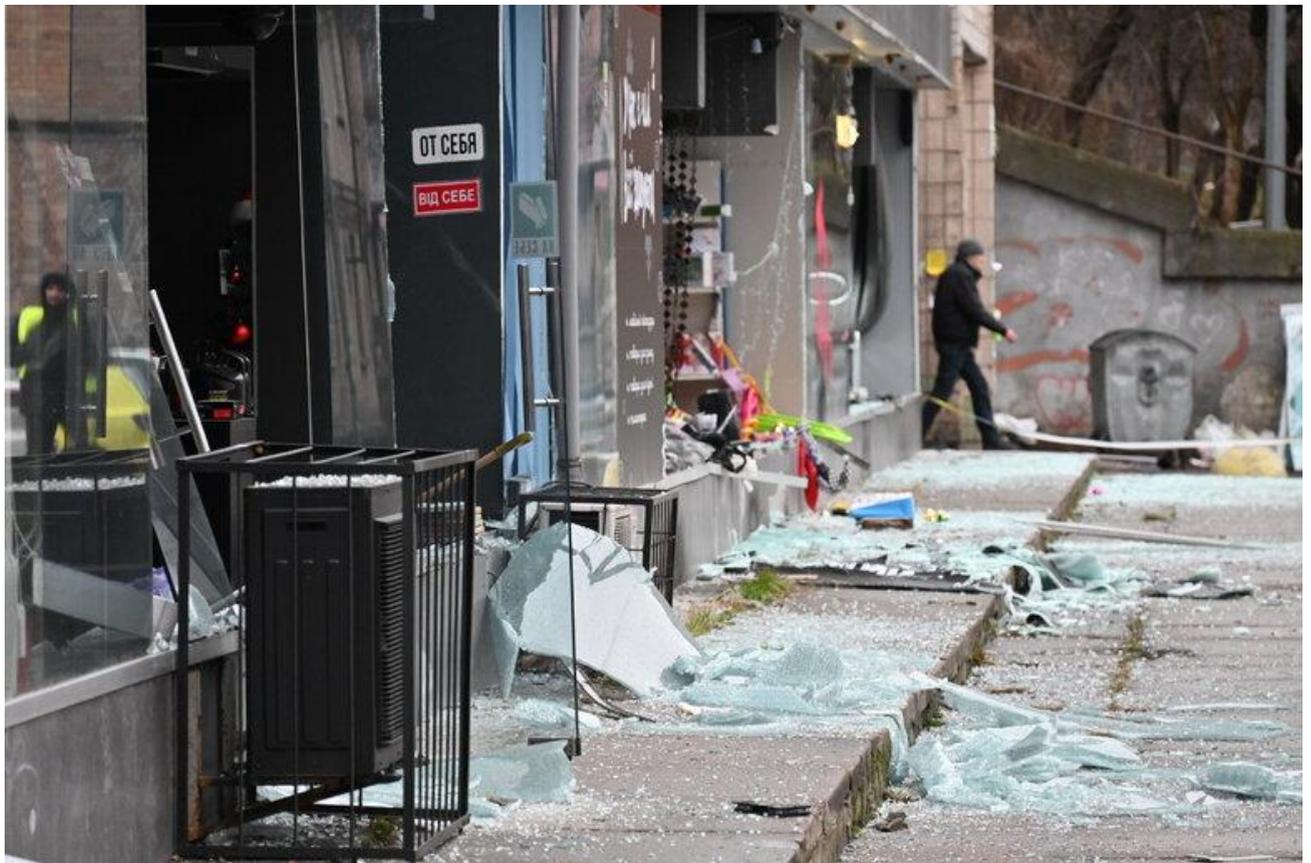


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***Consequences of shelling of the city of Kharkiv on January 2***



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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.



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VOLUNTEER ACTIVITIES