The experience of Ukrainian water supply companies during the war. Part 2
Summary of results of investigations

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Sources of information

Vodokanals needs database

- More than 100 applications
- From more than 50 vodokanals

Vodokanals survey

- Kyiv, Chernigiv, Kharkiv, Mykolaiv, Sumy, Kremenchuk, Jitomir, Voda Donbasu (Donetsk Oblast), Rivne, Vishgorod
Main challenges for vodokanals during the war

- Destruction of water-supply systems and its objects
- Power outages
- Supply difficulties
- Decrease of employees number
- Temporary moved persons
- Cash flow gap
- Non-covered expenses
Short-term measures

Renew water-supply and sanitation

- Centralized (if possible)
- Decentralized

Find ways for water-supply and sanitation during electricity disconnects

- Generators with fuel store
- Water-supply on zero-floor
- Decentralized

Increase efficiency and coordination between vodokanals, donors, suppliers

- Database of the needs
- Project assessment
- Project control and management

Financial stability for water-supply companies

- Strict financing from national budget
- Adopting tariffs at economical level
- Help from international donors in partly covering needs

Organizing storages and reserve

- Materials
- Spare parts
- Reagents
- Vehicles
- Etc.

Create protection system from war-pollutants in water sources

- Creating system for determination
- Providing methodology and tests needed
- Training for persons who are involved
Long-term measures and risk assessments

System destruction
- Second water intake
- Inner and outer reservoirs
- Decentralized system
- Moving and vehicle treatment stations

Water quality decrease
- Identification of compound and presence time
- Stop polluted intake
- Prepare technology changes
- Any of measures for SD

Power-supply disconnection
- Generators at each key pumping station
- Moving generators
- Specific hydraulic regimes

Deficit for materials and spare parts
- Creating stores
- Saving stores at independent storages

Reagents
- Prevent chlorine gas using and storage during war-time
Thank you for attention

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