

THE WORLD BANK IN UKRAINE: OVERVIEW OF EMERGENCY SUPPORT IN INFRASTRUCTURE AND SUSTAINABLE DEVELOPMENT SECTORS



MAJOR ANALYTICAL REPORT: RAPID DAMAGE AND NEEDS ASSESSMENT (RDNA3)

OVERALL DAMAGE AND NEEDS: as of December 31, 2023

DIRECT DAMAGE

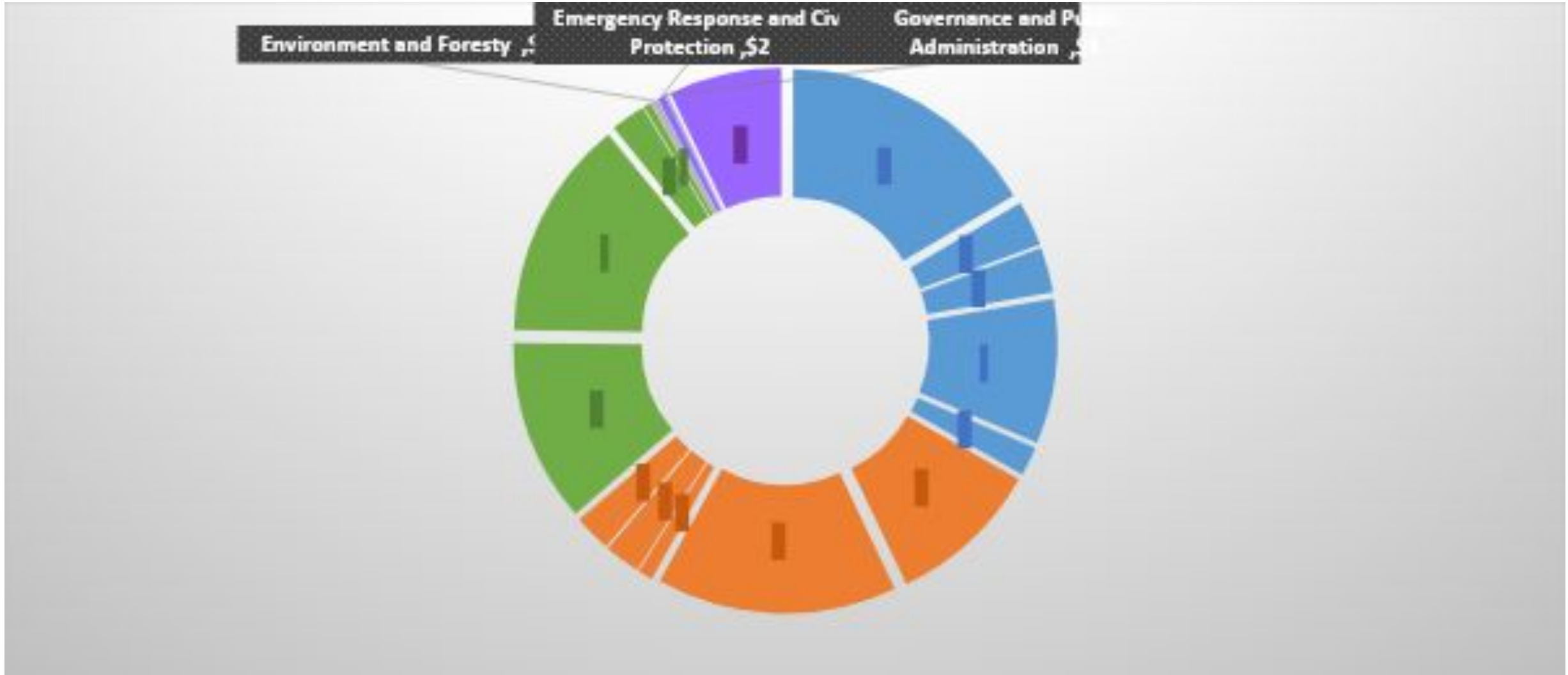
**US\$152
billion**

Safe repair &
reconstruction of buildings
& infrastructure to modern,
green, resilient standards.
Support recovery of public
services & private sector

**RECONSTRUCTION AND
RECOVERY NEEDS**

**US\$486
billion**

\$486 B IN RECOVERY & RECONSTRUCTION NEEDS



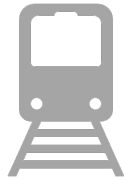
Source: RDNA3. Needs relate to total estimated needs covering the period 2024–2033. Where data was available, needs met were deducted.

EMERGENCY SUPPORT PROVIDED THROUGH FRAMEWORK EMERGENCY PROJECTS



Re-PoWER

The Restoration Project of Winterization and Energy Resources: recovery of the electricity supply, protection facilities for sub-stations, and emergency equipment for the heating services



RELINC

The Repairing Essential Logistics and Network Connectivity: repairs for restoration of critical transport connectivity and provision of rail rolling stock and Danube ports equipment to expand Ukraine's export capacity



HOPE

The Housing Repair for People's Empowerment project: critical repair needs of the country's partially damaged housing stock. The project aims to benefit more than 100,000 families.



ARISE

The Agriculture Recovery Inclusive Support **Emergency** project: recovery of agricultural production affected by the war through provision of access to affordable financing for farmers and grant support to small farms.

HOUSING

- ❑ Most affected sector with total damage of over US\$55 bn
- ❑ 2 million residential units (~10% of total residential stock) impacted affecting ~5.5 million residents
- ❑ Over 3.7 million people displaced within Ukraine only (as of Dec 31, 2023)
- ❑ ~87% of housing units damaged are in multi-family apartment buildings
- ❑ 4 out 5 damaged units are in urban areas
- ❑ Over US\$80 bn required for recovery



HOPE: RESPONSE TO NEEDS AND RESULTS

The Housing Repair for People's Empowerment project (P181200): critical repair needs of the country's partially damaged housing stock. The project aims to benefit more than 100,000 families.

Components \$800m total needs	Initial URTF \$	Additional URTF \$
1. Repair of residential units with partial damage <ul style="list-style-type: none"> - Light repairs - Medium repairs 	\$ 150	\$60m (in process)
2. Repair of moderately damaged Multi Family Buildings (MFBs) <ul style="list-style-type: none"> - Design & project documentation - Repair works 	\$ 10m	\$ 2m (in process)
3. Project management and Third Party Monitoring Support	\$ 2.5m	
Total	\$ 162.5	\$ 62m

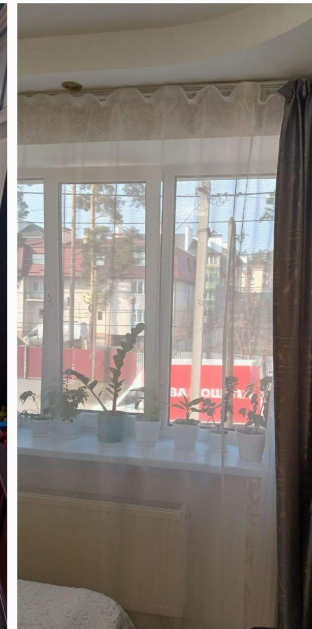
Remaining Funding Gap: \$575.5 million

Results:

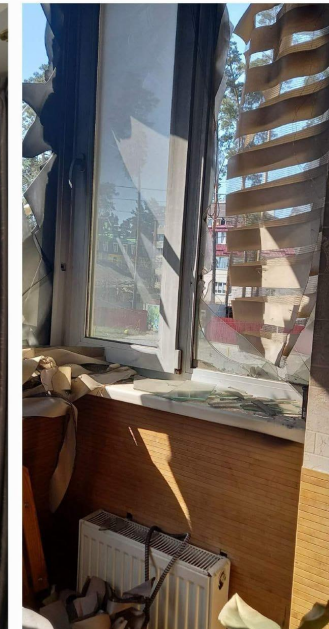
- Over 82,000 applications
- 50,000 households compensated (>130,000 people)
- Additional US\$120 mn to be paid by end of 2024
- Third Party Monitoring Agency ToR mobilization underway - onboarding by fall 2024
- City Eligibility and Building Selection Criteria finalized



Before



After



Before



After

HOPE: EXPECTED PROCUREMENT

Procurement activities	Initial funding	Estimated Timeline
Preparation of detailed design documentation for rehabilitation/restoration of multi-family buildings with partial/medium damages.	Cumulative of USD 12 million	August-October 2024

- The list of participating municipalities shall become available in early July 2024*
- The call for designs are expected to be launched by the municipalities in late summer or early fall 2024*

AGRICULTURE AND FOOD PROCESSING SECTOR

- ❑ Total cost (damage and loss) in agriculture sector estimated at US\$80 billion
 - 20% decrease in planting area
 - 10% decrease in livestock herds
 - Direct employment drop by 18%
- ❑ 3.4 million people in need of food security and livelihoods support
- ❑ Access to finance identified as most crucial issue for farmers, from small to large, to continue producing food for local and global food security



ARISE: RESPONSE TO NEEDS AND RESULTS

The Agriculture Recovery Inclusive Support Emergency: recovery of agricultural production affected by the war through provision of access to affordable financing for farmers and grant support to small farms.

Components \$700m total needs	Initial URTF \$	IBRD loan	Additional URTF \$
1. Supporting access to finance to farms through affordable credit - Interest rate compensation under "5-7-9" credit program	\$ 270m	\$ 230m	
2. Supporting access to finance to small farms through grants	\$ 49.2m		\$ 45m (in process)
3. Project Management	\$ 0.8m		
Total	\$ 320m	\$ 230m	\$45m

Remaining Funding Gap: \$105 million in Component 2

No procurement

Results:

- Over 10,000 farmers received affordable financing
- Over \$1 bn in financing (private capital mobilization) for agricultural production in 2023
- Contribution to increase in production of major grains and oilseeds in 2023
- Over 50,000 more farms and 40,000 small farms to benefit in 2024



TRANSPORT SECTOR

- ❑ Over third of territory affected, including critical corridors for imports and exports
- ❑ Damage to Transport assets of US\$34 billion two years after the war (as of Dec 2023):
 - 8,400 km of roads
 - 390 bridges
 - over 50 km of rail lines
 - 83 railway bridges
- ❑ Logistics chains & maritime ports disrupted due to shutdown of BSGI in July 2023
- ❑ 2024-33 needs of US\$74 bn (57% roads, 73% in Donetska, Khersonska, Zaporizka, Kharkivska, and Luhanska oblasts)
- ❑ Continuous strikes on port infrastructure in Odeska and Mykolaivska oblasts, including on Danube River ports
- ❑ Solidarity lanes hampered by slow border procedures and Ukrainian agri import restrictions in some EU countries



RELINC: RESPONSE TO NEEDS AND RESULTS

The Repairing Essential Logistics and Network Connectivity (P180318): repairs for restoration of critical transport connectivity and provision of rail rolling stock

Components \$585m total needs	Initial URTF \$	Additional URTF \$
1. Lifeline road connections <ul style="list-style-type: none"> - Modular bridges - Materials for road & bridge repairs - BCPs Equipment 	\$ 23.5m	
2. Lifeline rail connections <ul style="list-style-type: none"> - Flatbed railway wagons - Equipment/materials for rail repairs - Rolling stock / locomotives to support export capacity via EU 	\$ 23.5m	\$ 189.5m (in process)
3. Technical Studies/ Implementation Support	\$ 3m	\$ 6mn
4. NEW NEEDS: Scaling-up Danube Logistics Chain		\$34.5m (in process)
Total	\$ 50m	\$230m

Results:

- Modular bridges needs met fully by donors/IFIs
- 18 modular road bridges delivered (400 meters)
- Equipment for rail repairs – 1st batch delivered, rest by July
- Flatbed wagons delivery of 100 in May and 100 by August



Remaining Funding Gap: \$310 million

RELINC: ONGOING AND EXPECTED PROCUREMENT

Procurement activities	Initial funding	Estimated Timeline
Procurement for road repairs (UNOPS) - Modular bridges	US\$ 23.5mn	Finalized
Procurement of materials, equipment for damaged rail bridge repairs (UNOPS)	US\$ 8.5 mn	Finalized
Procurement launch of flatbed rail wagons (direct contract)	US\$ 15.0 mn	Delivery on-going
Potential procurement of technical studies (TBD)	TBC	June – August 2024*
Procurement of electric locomotives for railways	Est. US\$189.5 mn	May 2024*
Procurement of port equipment (several bidding processes) - Vessels and tugboats - Crane for maritime ports - Mobile handling and lifting equipment	Est. US\$34.5 mn	June – August 2024*



* Publication of bidding documents

ENERGY SECTOR

- ❑ Over 50 % of Energy Facilities damaged
- ❑ Strikes in March-April 2024 - largest one-off damage
- ❑ Over 7 GW of generation capacity lost since March
- ❑ Generation facilities and electricity transmission systems in Kharkiv, Zaporizhzhia, Lviv, and Kyiv regions
- ❑ Dnipro hydro power plant out of operation
- ❑ 19 substations attacked, 8 destroyed, 6 HV transformers heavily damaged
- ❑ 1.1 mn consumers disconnected (affecting 2.5 mn pple)
- ❑ Kharkiv in blackout: 700,000 consumers cut off (affecting over 1.5 mn people)
- ❑ Heroic continued restoration of service by Ukrainian energy companies



APRIL 11TH ATTACKS: MORE DAMAGES



- Tripilska Thermal Power Plant (TPP) completely destroyed in April 11th attacks on - important for supplying Kyiv and regions nearby
- The state holding of TPPs lost 100% of its generation capacities
- Privately-owned DTEK lost 80% of its generation capacities
- Attempts to attack Ukrenergo's, Ukrhydro's and Naftogaz's facilities continue
- District heating-related cogeneration facilities are attacked as well

REPOWER: RESPONSE TO NEEDS AND RESULTS

The Restoration Project of Winterization and Energy Resources

(P180332): recovery of the electricity supply and emergency equipment for the heating services

Components \$500m total needs	Initial URTF \$	Additional URTF \$
1. Emergency equipment for electricity infrastructure - Transmission transformers - Transmission switchgears - Relay protection devices - Other equipment / materials for Ukrenergo - Protection facilities for sub-stations	\$ 199.7m	
2. Emergency equipment for heating infrastructure - Mobile heat-only boilers for heating centers - Mobile mini co-generation units - Other equipment and materials for heating		\$ 47m (in process)
3. Technical Assistance / Project Management	\$ 0.3m	
Total	\$ 200 m	\$ 47m

Remaining Funding Gap: \$253 million

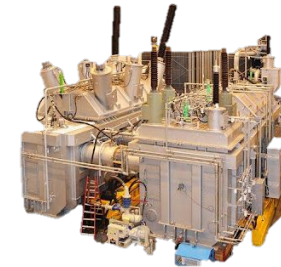
Results:

- 14 units of 750kV Phase Shift Transformers contracted – delivery Feb 2025
- Implementation Support Consultant mobilized
- 6 Autotransformers under procurement - delivery April 2025
- Additional 13 Autotransformers under procurement – delivery April 2025
- Special machineries/vehicles under procurement- by November 2024
- Protective facilities added
- Funds mobilized for 97 autotransformers - 19 delivered

Status	Donors	# of units
AT Delivered	Germany	11
	Japan	2
	Lithuania	2
	USAID	2
	Ireland	1
	Latvia	1
AT to be delivered	EBRD	42
	USAID	20
	Japan	11
	World Bank	6 (+12)
	UNDP	3
	Germany	2

RE-POWER: ONGOING AND EXPECTED PROCUREMENT

Procurement activities	Estimated Cost	Estimated Timeline
6 units of 330/220kV autotransformers (evaluation stage)	US\$ 18 mln	April 2025
Special vehicles, trucks, cranes (procurement stage)	US\$ 42 mln	Nov 2024
14 750kV phase shift transformers (contracted)	US\$ 22 mln	April 2025
13 additional autotransformers (contracted)	US\$ 22 mln	April 2025
Civil works for Level 2 anti-drone protection facilities (procurement stage)	US\$ 100 mln	Dec 2024
Project Implementation Consultant (contracted)	US\$ 2 mln	Throughout the project





THANK YOU