

Climate Damage caused by Russia's war in Ukraine

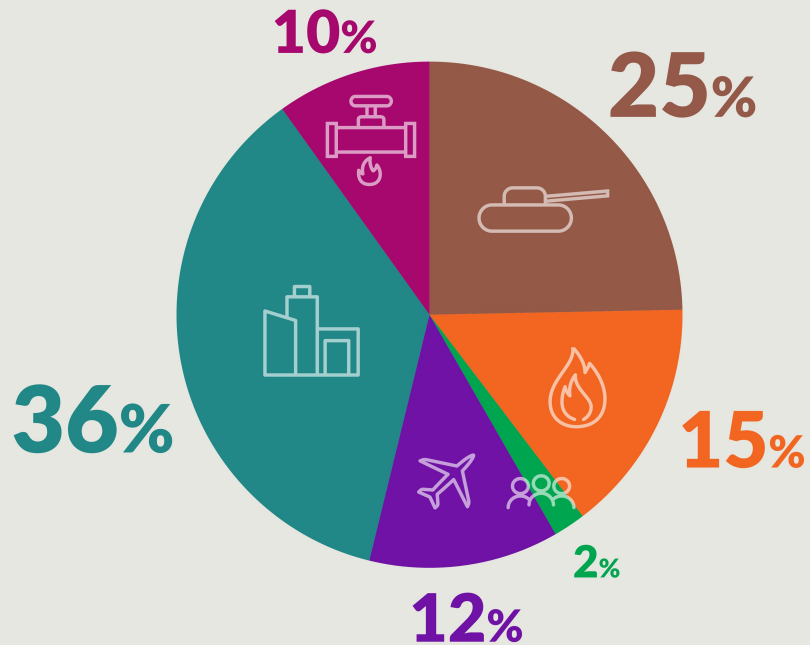
assessment of 18 months of war
holding Russia accountable
repairing the damage



COP28 Side event, 4 December 2023



1. Total emissions 18 months of war



Warfare

Fires

Refugees

Civil aviation

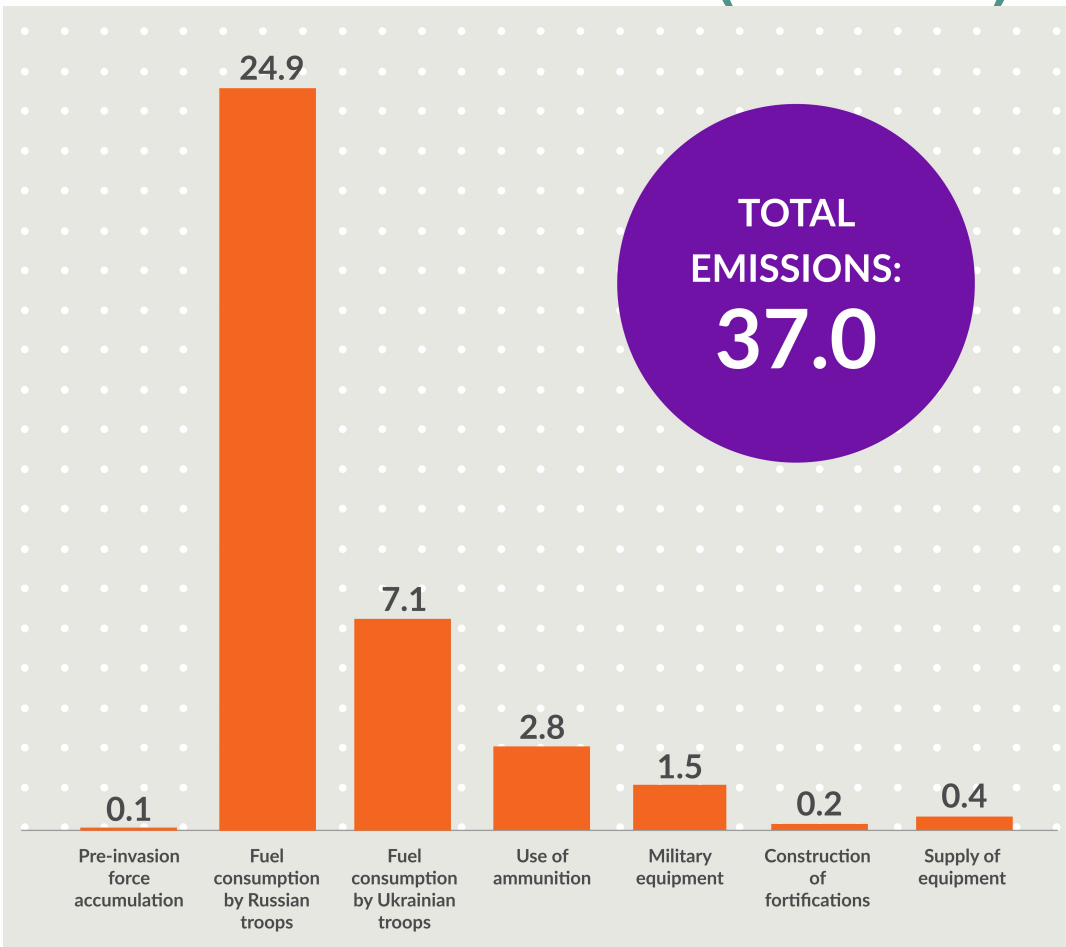
Reconstruction

Nord Stream 1 & 2

TOTAL
EMISSIONS:
150
MtCO₂e



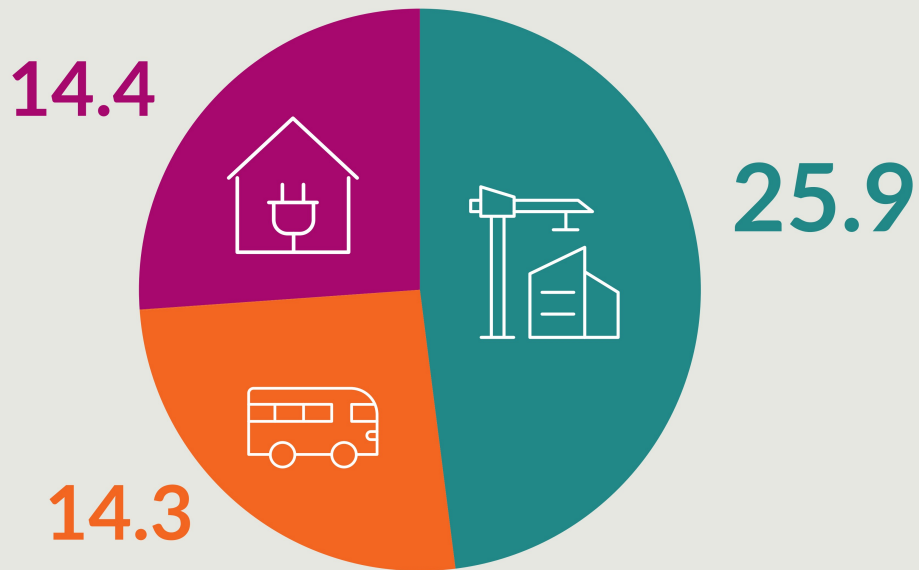
Warfare emissions (MtCO₂e)





Reconstruction emissions (MtCO₂e)

-  Buildings
-  Transport & Infrastructure
-  Industry & Utilities





2. Holding Russia accountable

- Total war emissions 18 months: 150 million tCO₂e
- Without Russia's act of aggression these emissions would **not have happened**
- The Russian Federation will be held accountable for the damage to humans, buildings and the environment. Similar the Russian Federation should be held **accountable** for the GHG emissions it has caused as well



Legal pathways

- Holding a **state responsible** for GHG emissions resulting from an act of aggression is a first
- Legal study investigating different pathways:
 - UN Compensation Commission
 - International Court of Justice
 - International Criminal Court
 - UNFCCC / Paris Agreement
- These existing frameworks provide currently **limited** possibilities



International Compensation Mechanism

- Established under the auspices of the Council of Europe
- Compensation could be paid from confiscated Russian assets
- A registry is currently being created and will include environmental damages
- Climate related damages to be included in the damage registry as a first step

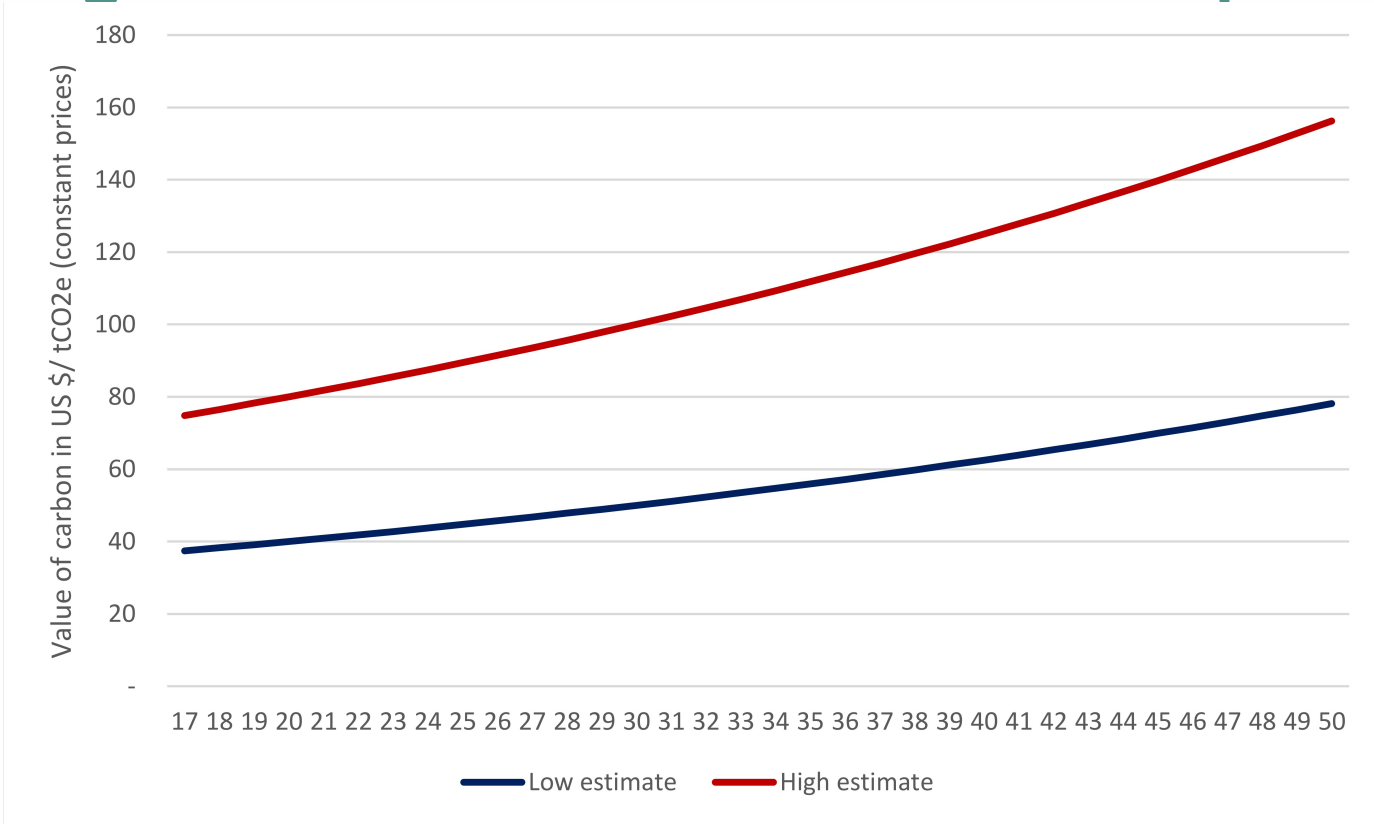


Carbon pricing today

- Market price in trading schemes:
 - EU ETS: 58 – 100 EUR/tCO₂e
- Carbon taxes set by governments:
 - Uruguay: 158 USD/tCO₂e
 - Poland: 0.08 USD/tCO₂e
- **Social cost of carbon** / shadow cost of carbon:
 - Used by IFIs to evaluate emissions from projects
 - WB, EBRD and EIB



High-Level commission on Carbon prices



Year	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
Low	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	55	56	57	58	60	61	63	64	65	67	68	70	71	73	75	76	78
High	75	77	78	80	82	84	86	87	89	91	94	96	98	100	102	105	107	109	112	114	117	120	122	125	128	131	134	137	140	143	146	149	153	156



The cost of war emissions

- Average carbon price 2022/2023: 64 USD/tCO₂e
- War emissions 18 months: 150 million tCO₂e
- Total climate damage reparations: 9.6 billion USD



3. Repairing the damage

- Replanting the forest destroyed by the war
- Accelerated roll out of renewable energy
- Minimize construction emissions, through:
 - Smart design – less construction materials
 - Recycling cement and steel from debris
 - Low-carbon cement and steel
 - Alternative bio-based construction materials

Potential to avoid 30%-50% of construction emissions

- Side event Thursday 6 Dec., 10:00, Ukraine Pavilion





Download the report at:
en.ecoaction.org.ua/publication

Contact:
+36 30 3662983
lennard@klunen.com