

# **KMF-CIRCULAR – Waste Sources in Ukraine and the Potential Role in Replication**

## **1. Main Waste Sources in Kyiv Region**

Given the current situation in Ukraine, due to war-related destruction, infrastructure recovery, and new construction activities, the volume of construction and demolition waste in the Kyiv region is rapidly increasing, including:

- mineral wool (KMF/MMVF);
- glass wool;
- stone wool;
- mixed insulation materials;
- construction and demolition (C&D) waste.

### **Main sources:**

- façade and roofing insulation;
- HVAC insulation;
- industrial facilities;
- demolition of residential and industrial buildings from the Soviet period.

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## **2. Main Drivers of Waste Generation**

### **Demolition and Reconstruction**

- war-damaged buildings;
- municipal recovery projects;
- infrastructure reconstruction;
- commercial renovation projects.

### **Industry**

- factories and warehouses;
- energy facilities;
- industrial modernization projects.

### **Construction Sector**

- construction and demolition companies;
- insulation contractors;
- waste management and recycling companies.

### **Municipal Sources**

- waste transfer stations;
- temporary storage sites;
- regional recovery programmes.

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## **3. Waste Volumes and Availability**

In 2021, approximately 1.17 million tonnes of municipal solid waste (MSW) were generated in the Kyiv region. According to estimates, the total waste volume in 2025 reached approximately 1.3–2.0 million tonnes per year.

Thermal insulation materials may account for around 2.5–5% of the total waste volume, equivalent to approximately 30,000–75,000 tonnes annually.

**Current situation:**

- waste is available at temporary storage sites;
- materials are mixed with concrete, bricks, gypsum, and plastics;
- sorting is performed mainly manually.

**Possible implementation activities:**

- waste flow mapping;
- sampling and classification;
- logistics assessment;
- pilot waste sorting projects.

**4. Current Waste Management Practice**

Currently, mineral wool and insulation waste in Ukraine are:

- disposed of in landfills;
- mixed with construction waste;
- rarely sorted;
- almost never recycled.

There is currently no dedicated mineral wool recycling infrastructure in Ukraine. This creates strong potential for circular economy initiatives and replication activities within the KMF- CIRCULAR project.

**5. Potential Contribution of Ukraine to the Consortium**

The Ukrainian replication role may provide:

- waste flow mapping;
- access to demolition and reconstruction projects;
- waste sampling and characterization;
- local sorting and collection;
- logistics support;
- secondary raw materials market analysis;
- potential future testing or replication site.

**Main areas of participation:**

- stakeholder engagement;
- pilot activities;
- secondary raw materials analysis;
- awareness - raising and dissemination activities in Ukraine.

**6. Operators and Infrastructure**

Approximately 10–15 key construction waste operators are active in Kyiv and the Kyiv region.

**Main companies:**

- Kyivspetstrans Municipal Enterprise;
- PROFPEREROBKA LLC;
- Kramar ECO LLC;

- UBS Recycling LLC;
- TARKOM Ecoservice LLC.

**Main activities:**

- construction waste collection;
- container logistics;
- partial waste sorting;
- transportation to landfills.

**7. Landfills and Sorting**

**Key facilities:**

- MSW Landfill No. 5 in Pidhirtsi village (Obukhiv district);
- Construction Waste Landfill No. 6 (formally located in the Holosiivskyi district of Kyiv, near Pyrohiv and the administrative border of Kyiv region).

**Existing recycling activities are limited to:**

- concrete crushing;
- metal recovery;
- manual sorting;
- final disposal.

There is currently no separate mineral wool waste stream. Insulation materials are usually mixed with general construction waste and transported to landfills.

**8. Opportunities for KMF-CIRCULAR**

The current situation creates opportunities for:

- pilot waste sorting projects;
- selective demolition activities;
- mineral wool collection logistics;
- waste flow mapping;
- a future waste recycling facility in Ukraine.

**9. Legal Information**

**LIMITED LIABILITY COMPANY “GOLD A.V.E.”**

- Ukrainian name: LLC “GOLD A.V.E.”
- Registration date: 10 November 2020
- EDRPOU code: 43965806
- Address: 85 Kuznechna Street, Kharkiv, 61045, Ukraine
- Operational contacts / activities in Kyiv region to be confirmed
- Director: Andrii Iordanov
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