

## JICA's Cooperation with Ukraine Vol. 5

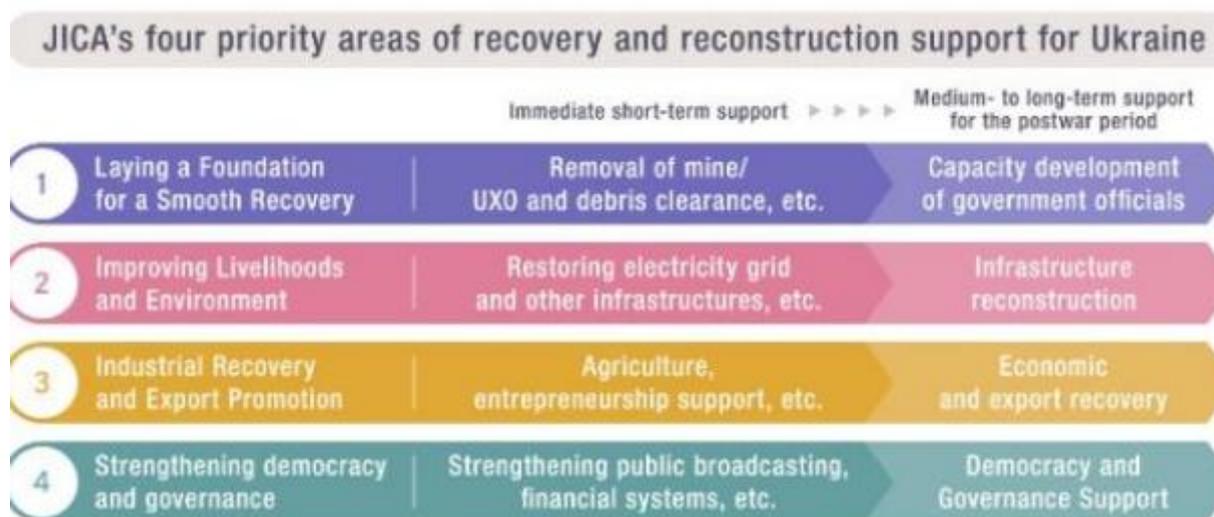
This newsletter offers the latest updates on the Japan International Cooperation Agency (JICA)'s Ukraine Recovery and Reconstruction Support Program.

### Ukraine's Support Needs

Since Russia's full-scale invasion began in February 2022, the war damage in Ukraine is estimated to have reached \$195 billion, the costs for restoration and reconstruction are projected to total \$587.7 billion over the 10-year period. Damage is particularly concentrated in four sectors: housing, energy facilities, transport infrastructure, and industrial infrastructure. Persistent drone and missile attacks across the country have killed approximately 15,000 civilians, while the number of internally displaced persons (IDPs) has reached 4.62 million.

### Overview of JICA's Support for Ukraine

JICA's support for Ukraine is built upon three core pillars: "Support continuance of government functions," "Assist neighboring countries and Ukrainians displaced by the invasion" and "Recovery and Reconstruction Support." This cooperation encompasses a broad spectrum, from immediate short-term relief to medium- and long-term assistance focused on post-war reconstruction. It is strategically aligned with the following four priority areas:



### 1. Infrastructure Development for Recovery

#### (1) Landmine and Unexploded Ordnance Clearance

- As of March 2025, approximately 23% of Ukraine's territory remains contaminated by landmines and unexploded ordnance (UXO), causing severe damage to agriculture—a vital industry—and civilian life. Civilian casualties from these hazards have exceeded

1,500 since the invasion began. At the current pace, it is estimated that complete clearance and land release will take approximately 80 years. Ensuring safety through mine action is foundational to Ukraine's recovery and reconstruction, but a severe shortage of expertise, equipment, and personnel remains a critical challenge on the ground.

- JICA has provided approximately 20 Japanese-made mine clearance machines to the State Emergency Service of Ukraine (SESU), which has been conducting humanitarian mine action across the country. These machines are contributing to the restoration of farmland and infrastructure in liberated areas such as Kharkiv Region. Beyond the provision of equipment, Japan is engaging in capacity building through training in the operation and maintenance in Japan and Cambodia. Moving forward, support for the equipment maintenance base in Poltava and the personnel training center in Vinnytsia will promote the establishment of a sustainable local system.
- At the Ukraine Mine Action Conference (UMAC 2025) held in Tokyo in October 2025, the Japanese government announced its the "Ukraine Mine Action Support Initiative", based on three pillars: 1. Strengthening "Human Resource" and "Technology", 2. Ensuring Seamless Transition to Recovery and Reconstruction: "The Nexus", and 3. Diversifying and Strengthening Partnerships with Third Countries and International Organizations. At the reception hosted by the Minister for Foreign Affairs during the conference, popular Ukrainian singer Jerry Heil, serving as the Humanitarian Demining Ambassador, performed a new song themed on mine action. During her stay in Japan, she also conducted various awareness-raising activities, widely highlighting the landmine contamination situation in Ukraine and the importance of Japan's cooperation. Furthermore, on the occasion of UMAC 2025, JICA invited six officials from Ukraine's Ministry of Economy, Environmental and Agriculture to Japan. These officials visited the Tohoku region, learning from its reconstruction experience through lectures and site visits regarding recovery planning, collaboration between the central government and the private sector, industrial revival, regional reconstruction for returnees, resident participation, and debris management.
- Furthermore, based on the 4-billion-yen grant aid agreement signed in December 2025 for the "Programme for Emergency Response on Humanitarian Mine Action and UXO Clearance," Japan will provide multifaceted support for Ukraine's early recovery and sustainable economic reconstruction. This initiative includes the provision of Japanese-manufactured mine clearance equipment, along with essential supplies for the treatment of explosion victims and the implementation of mine risk education (MRE) to ensure public safety.



Japanese-made mine clearance machine in operation on Kharkiv region farmland (September 2025 ; Source: SESU SNS)



JICA President Tanaka met with representatives from Ukraine's Ministries of Economy, Environment, and Agriculture at the UMAC 2025. (Source: Ministry SNS)

## (2) Debris Management

- Russia's invasion has left 13% of homes partially or completely destroyed, generating 6 million tons of debris. Damage is particularly severe in the southern and eastern regions, yet the equipment and technical expertise required for debris management remain severely lacking.
- The debris processing equipment provided by JICA is currently operational in Kyiv Region, Kharkiv, Dnipro, Mykolaiv, and other locations. Following the establishment of temporary storage sites and the commencement of processing, we are facilitating technology transfer and monitoring activities, focusing on the management of these sites and the implementation of asbestos safety measures.
- In December 2025, a study program was conducted in Japan for Ukrainian government officials and experts. Through lectures by Japanese ministries, research institutions, local governments, and private companies—alongside site visits to debris processing facilities in the three Tohoku prefectures—core expertise for managing large-scale disaster waste was shared to support Ukraine's recovery efforts.



Government officials inspecting a pilot project site in Kyiv Region (November 2025; Source: Ukraine State Agency for Reconstruction SNS)



Participants of the "Modern Urban Waste Management Technology" training program (December 2025, Tokyo)

### (3) Restoration of Critical Infrastructure

- Since the heating season began in October 2025, attacks on energy infrastructure, including thermal power plants, have intensified. Notably, the January 2026 attacks resulted in the loss of 8.5 GW of generating capacity and caused extensive damage to combined heat and power (CHP) facilities, which are essential during the winter months. With current electricity demand reaching 18 GW, imports from Europe (approximately 1.9 GW) are insufficient to bridge the gap, leading to worsening power outages and water shortages nationwide. In response to requests for additional support, Japan has promptly provided approximately 140 generators and 60 transformers to address these critical needs.



Donated Generators



Generator Handover Ceremony, February 2026, Kyiv

- A current shortage of heavy machinery operators—essential for infrastructure restoration has severely hampered the demolition of destroyed buildings and debris removal. To

address this challenge, Ukraine is advancing the training of female heavy machinery operators. However, many units at vocational training facilities were outdated, and the equipment actually used on-site often featured different specifications. In response to a request from the Ukrainian government, JICA provided Japanese-made heavy machinery and operation simulators to a vocational training facility under the Kyiv Regional Agency for Reconstruction. This facility is actively engaged in developing female operators, which is expected to help resolve the shortage of personnel for infrastructure restoration.



Handover Ceremony for Heavy Machinery and Simulator, February 2026



Training Facility of the Ukraine State Agency for Reconstruction

#### (4) Railway

- Since the occupation of Mariupol in May 2022—which served as Ukraine's sole rail production base—the country has been forced to rely on foreign assistance for the maintenance of its railway network. The 25,000 tons (approximately 192 km) of rails provided by JICA through October 2024 were utilized for track maintenance across five Ukrainian regions. An additional 3,000 tons (covering approximately 23 km) scheduled for delivery in January 2026 will bring the total length of replaced rails to 215 km.



Handover Ceremony for rails, January 2026, Kyiv City



Welding of the provided rails (Source: Ukrainian Railways SNS)

## 2. Reconstruction and Environmental Improvement

### (1) Education

- As of February 2026, over 400 schools in Ukraine have been completely destroyed, and more than 4,000 schools have sustained damage. To ensure safe learning environments, JICA provided ICT equipment, including laptops and tablets, to Digital Learning Centers (DLCs) established by Ukraine's Ministry of Education and Science. Additionally, in September 2024, JICA delivered over one million physical textbooks to fifth-grade students in regions where in-person learning continues, thereby supporting the continuity of education.
- Recognizing the need to cultivate a skilled young workforce for post-war economic recovery, JICA is supporting the strengthening of vocational training promoted by the Ukrainian Ministry of Education and Science. In collaboration with Japanese companies operating in Ukraine, we have provided modern equipment and machinery to public vocational training schools nationwide. We also conduct initial training for instructors on the operation and maintenance of this equipment. To date, we have partnered with four companies, supporting a total of 28 vocational training facilities.
- In December 2025, we held a joint seminar with UNICEF, which supports vocational training for youth. In January 2026, we hosted a business seminar at the Japan-Ukraine Center, inviting instructors from partner Japanese companies to introduce Japanese technology.



Opening ceremony for a heat pump course at the vocational training school in Kyiv, July 2025



Middle school students from Zhytomyr Region touring the heat pump course facilities, December 2025

### (2) Healthcare

- As of January 2026, 2,562 facilities across 819 healthcare institutions have been partially damaged or completely destroyed. Healthcare facilities remain strained due to the influx of internally displaced persons (IDPs), an increase in trauma patients, and chronic

shortages of medical personnel. As the war continues, the demand for rehabilitation and mental health care is growing significantly.

- To date, JICA has provided medical imaging equipment (including 9 MRI units and 1 CT scanner), 20 surgical microscopes, 11 welfare vehicles, and various rehabilitation devices as part of its efforts to strengthen healthcare systems.
- Since fiscal year 2024, JICA has been conducting training programs twice annually to enhance the capabilities of medical professionals in rehabilitation and to expand disaster medical response system.
- In the fields of psychiatric care and mental health, medical equipment for treating depression was provided to two national medical universities. Furthermore, in October 2025, an invitation program was conducted for psychiatrists from these institutions. Through lectures and clinical site visits, the program shared Japan's expertise and research findings in areas such as PTSD treatment and trauma-informed care.



Radiation Disaster Medical Response Training at the Institute of Radiological Science, January 2026



Trauma-Informed Care (TIC) training session at the University of Tokyo, October 2025

### 3. Industrial Promotion and Export Promotion

#### (1) Agriculture

- Labor shortages have worsened due to the military mobilization of men and the displacement of the population abroad, leading to an increase in the role of women in agriculture. However, many women lack the necessary skills and knowledge for farm management and the operation of agricultural machinery.
- Through the "Project on Promotion of Small-Scale Horticultural Agriculture: Enhancing Inclusiveness of Women Farmers," launched in July 2024, JICA is supporting female farmers by providing training on horticultural crops and the equipment necessary for agricultural production. In addition, JICA has also launched horticulture training targeting socially vulnerable groups such as women, internally displaced persons, and veterans at

vocational training schools in Ukraine, supporting their entry into the agricultural sector.

- In February 2026, stakeholders were invited to Japan for observation and knowledge exchange regarding female farmers' activities and support systems, ensuring sustainable human resource development. Concurrently, Japan is advancing multifaceted reconstruction support for Ukrainian agriculture by sharing specialized expertise at side events during the UMAC 2025 and organizing local seminars based on food value chain survey results, while also fostering international collaboration.



Small-scale horticulture training in Ukraine



Site visit in Japan, February 2026

## (2) Private Sector Collaboration

- The participation of private companies is essential for Ukraine's recovery and reconstruction. To facilitate the entry of Japanese companies with advanced technological capabilities into the Ukrainian market, the "Ukraine Business Support Project" was launched in 2024. Among the 14 selected companies, 11 have progressed to the pilot project stage in Ukraine, and two have established local subsidiaries.
- Examples of ongoing pilot projects:

### **Kakichi Co., Ltd.**

Although Ukraine is a major exporter of agricultural products, its farmland faces significant challenges, including salinity and soil degradation caused by large-scale cultivation and excessive fertilization exacerbated by climate change. Furthermore, the war has introduced a critical new challenge: heavy metal contamination. To address these issues, Kakuichi—a company possessing "nanobubble" technology that improves soil quality through microscopic bubbles—is advancing efforts toward Ukrainian soil regeneration through a joint venture established in December 2025. In spring 2026, the company plans to begin verifying the effectiveness of nanobubbles under local environmental conditions in collaboration with Ukrainian research institutions and universities.



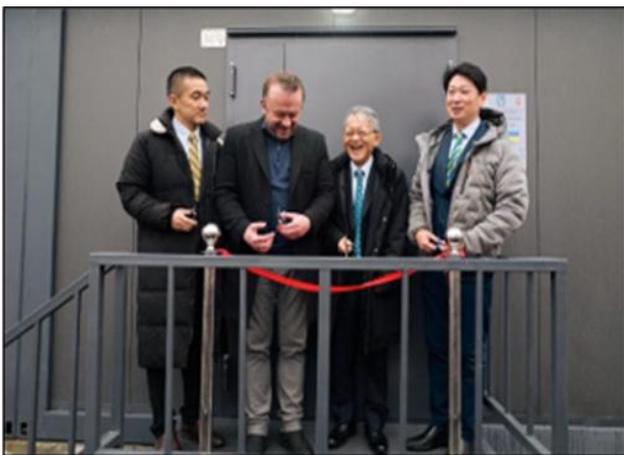
President Tanaka of Kakuichi and the local joint venture's co-manager at the establishment commemorative event



Presentation on Nanobubble Technology, December 2025

**Metal Products Inc.**

In Ukraine, steel supply remains unstable as major infrastructure has been destroyed and key steel production facilities—concentrated in the eastern and central regions—have been heavily damaged or occupied. Establishing a reliable supply system for steel products is a critical challenge. Metal Products leveraged its expertise to construct modular meal center in collaboration with local companies, gaining valuable construction experience within the country. Building on this, the company aims to establish a local joint venture to promote steel-reinforced concrete (SRC) shelters, which offer greater structural integrity than the reinforced concrete (RC) shelters currently prevalent in Ukraine.



Handover ceremony for the meal center constructed by Metal Products in collaboration with a local company (December 2025)



Children at the kindergarten, equipped with the new meal center

### **Yamada Bee Company, Inc.**

In Ukraine, many beekeepers sell only raw honey, resulting in low profitability. High-value-added products, such as candies and cosmetics utilizing propolis and royal jelly, are not yet widely available. To address this, Yamada Bee Farm aims to introduce its propolis and royal jelly products to the Ukrainian market, with a long-term vision of establishing local production using Ukrainian honey. Test sales commenced in February 2026 and are scheduled to continue through late April. Based on these results, a strategy for future expansion will be formulated.



Test sales at a retail store in Kyiv, February 2026

### **Daiwatech Co., Ltd.**

Russian attacks have caused extensive damage to critical infrastructure and residential buildings across Ukraine, exacerbating severe housing shortages in areas with high concentrations of internally displaced persons (IDPs). Furthermore, damage to power facilities has led to frequent blackouts in cities such as Kyiv, causing widespread disruption to daily life, medical care, and administrative services.

To address these challenges, Daiwatech is supplying modular housing equipped with solar power systems, aiming to establish living environments that ensure a stable electricity supply even during power outages. These units house IDPs who have relocated to the Kyiv area and currently serve at community clinics. This initiative not only supports displaced individuals but also contributes to the stabilization of local healthcare and the rebuilding of communities. Daiwatech will integrate the insights gained from this project into future product improvements and business development plans.



Housing for internally displaced persons equipped with a solar power system built by Daiwatech near Kyiv, January 2026

### (3) Support for Small and Medium-sized Enterprises

In parallel with supporting Japanese companies' entry into Ukraine, in 2025, as part of the "Private Sector Participation Promotion Project," technical support was initiated to assist Ukrainian SMEs in expanding into Asian markets, including Japan. Under this support framework, titled "Asia Window," ten companies were selected across three high-potential sectors for the Japanese and Asian markets: ① processed fruits and vegetables, ② confectionery, ③ furniture. Additionally, in collaboration with the Ukrainian Enterprise Export Promotion Office (EEPO), we provided market entry guidance and conducted webinars on productivity improvement, including "Kaizen," for Ukrainian companies broadly interested in the Japanese and Asian markets.

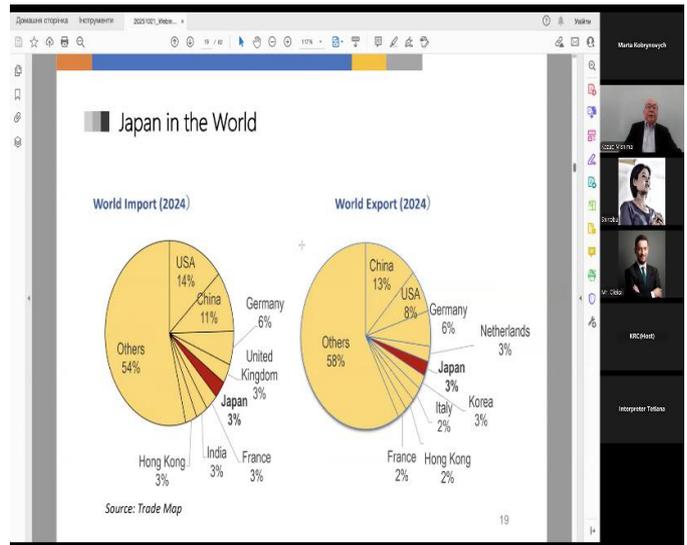
\*Details on "Asia Window" target companies are available at the link below

[About Ukrainian SMEs Supported | Overseas Initiatives - JICA](#)

※The webinars conducted are available on EEPO's entrepreneurship and business support platform Diia Business (in Ukrainian): [Business Beyond Borders: Японія & АСЕАН](#)



Cocktails featuring garnishes from Parovoz, a company supported through the “Asia Window” program



Scene from a webinar on entering the Japanese market

#### 4. Strengthening Democracy and Governance

##### (1) Public Broadcasting

- Since February 2022, extensive damage has been caused to a wide range of broadcasting infrastructure and equipment. Amidst an intensifying information war, maintaining broadcasting operations and delivering accurate, impartial information have become urgent priorities. With an eye toward post-war recovery, restoring and bolstering the broadcasting continuity systems of the Public Broadcasting Company of Ukraine (PBC), alongside implementing organizational reforms, are imperative tasks
- JICA has supported the PBC since its establishment in 2017 through the "Project for Capacity Development of Public Service Broadcaster of Ukraine." Following the full-scale invasion, JICA has expanded its efforts to meet rapidly increasing needs. To date, the project has provided three outside broadcast vans, seven mobile broadcasting units, cameras, studio equipment, and IT infrastructure. Furthermore, Phase 2 of the project has focused on enhancing resilience by developing backup centers and base stations essential for emergency operations. This phase also emphasizes human resource development, with six training sessions conducted in Japan to date. In January 2026, a comprehensive set of three operation manuals was finalized, and an implementation workshop was held in Kyiv to ensure their practical application.
- Phase 3 of the project, scheduled to launch in spring 2026, will focus on establishing a news reporting system capable of immediate response during emergencies, leveraging the hub-station framework. Furthermore, it will support the formulation of a comprehensive, cross-cutting Business Continuity Plan (BCP) to ensure operational resilience throughout

the organization.



Final Meeting of the "Project for Capacity Development of Public Service Broadcaster of Ukraine," Phase 2 (January 2026, Kyiv)

## (2) Anti-Corruption Measures

- In Ukraine, combating corruption within the judicial and law enforcement sectors is fundamental to establishing democracy and the rule of law. Considering both current wartime exigencies and the requirements for future recovery, EU accession, and international governance standards, it is essential to enhance the understanding of anti-corruption legal frameworks while bolstering investigative and prosecutorial capabilities.
- In this context, JICA, in strategic collaboration with the Ministry of Justice of Japan, invited Ukrainian judicial officials to Japan in December 2025 for the inaugural anti-corruption training program. A total of 21 representatives from Ukraine's Ministry of Justice and anti-corruption agencies participated. The program focused on Japan's legal framework for preventing corruption and shared advanced methodologies for investigating and proving corruption cases. The Ukrainian participants also shared their current investigative methodologies, creating a valuable forum for mutual learning between Japanese and Ukrainian practitioners.



Ukrainian judicial officials at the anti-corruption training, December 2025

[Contact for Inquiries Regarding This Matter]  
JICA Middle East and Europe Department, Office for