



UNITED NATIONS
INDUSTRIAL DEVELOPMENT ORGANIZATION



MINISTRY OF
ECONOMY
OF UKRAINE



CENELEC



GREEN RECONSTRUCTION OF UKRAINE

THE ROLE OF SUSTAINABILITY STANDARDS
AND TECHNICAL REGULATIONS

13 June 2023



INTRODUCTION

Even before the outbreak of the armed conflict in 2022, Ukraine was facing various challenges, including outdated infrastructure, energy inefficiency, and environmental degradation. Now, the country has put forward a Recovery Vision that aims to capitalize on the reconstruction efforts and make sure that these are guided by and serve as a springboard for sustainability. So-called “Green reconstruction” presents an opportunity to enable a transition towards sustainable and inclusive growth in the post-conflict era. To achieve this, the adoption and effective implementation of appropriate standards is crucial.

UNIDO has joined forces with the Ministry of Economy of Ukraine, the National Standards Body (UAS) and international partners like CEN and CENELEC to conceptualize and develop a National Guiding Framework to lay the foundation for green reconstruction. As part of these efforts, a series of workshops have been organized to help exploring how standards and conformity assessment can support the reconstruction of essential infrastructure, facilities, services and their management, through green lenses, particularly applying the principles of circular economy, climate neutrality and decarbonization, inter alia.

This series of workshops provides a platform for exchanging experiences and best practices and discussing the role of sustainability standards and technical regulations in support of green reconstruction. They bring together experts from relevant international, European and national partners and stakeholders from the public and private sectors to discuss the importance of integrating sustainability issues into Ukrainian public policies (including technical regulations) prior to the post-conflict reconstruction process.

This workshop represents the first in a series of events on this topic, as per the below plan:

- Role of standards in promoting and facilitating green reconstruction **(13 June 2023)**
- The role of public procurement in promoting sustainability **(25 July 2023)**
- Specific standards for green reconstruction **(September 2023)**
- Implications for the national conformity assessment system **(October 2023)**

With the participation
of over 120 national and
international experts, from
governments, international
organizations, Quality
Infrastructure institutions,
associations, and the
private sector.

SPEAKERS

OPENING

Mr. Oleksandr Pankov

Director, Department of Technical
Regulations Ministry of Economy, Ukraine

Ms. Anne Bercio

Trade Officer
EU Delegation to Ukraine

Mr. Steffen Kaeser

Chief of Department of Competitiveness
Quality and Job Creation
UNIDO

Mr. Eric Marchand

Programme Manager
CEN and CENELEC

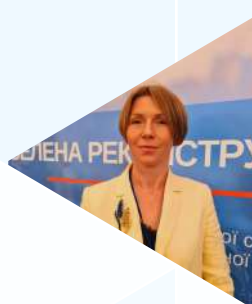
Mr. Oleg Shvydkyy

Head
Ukrainian Agency for Standardization (UAS)

Moderator:

Ms. Rita Bratash

Head of the communication division
UAS



PANEL

Mr. Nigel Croft

Expert on Quality Infrastructure

UNIDO

*The Green Reconstruction of Ukraine:
Opportunities and Challenges*



Mr. Tom Cantillon

**Policy Manager for the London Declaration
British Standards Institution**

*The London Declaration: standards in support
of an inclusive net zero transition*



Ms. Alessia Gaetani

**Project Manager
CEN and CENELEC**

*Overview of European Standards and Legislations
related to sustainability and green reconstruction*



Mr. Oleksandr Machulskyi

**Director
UAS**

*The role of UAS in the adoption and implementation
of European standards for green reconstruction
in Ukraine*



Ms. Kripka Liudmyla

**Executive Director
Association of Cement Producers of Ukraine
("Ukrcement")**

*Readiness of the private sector to integrate
sustainability principles and make use of standards
for the Green Reconstruction of Ukraine*



OPEN DISCUSSION

Mr. Philippe Moseley

**Policy Officer, Sustainable Industrial Policy
and Construction Unit
European Commission (DG Grow)**

Mr. Janis Aizsalnieks

**Policy Officer, Ukraine Support Group
European Commission (DG Near)**

Ms. Roksolana Shelest

**Economic Affairs Officer
UNECE**

Mr. Jerome Radtka

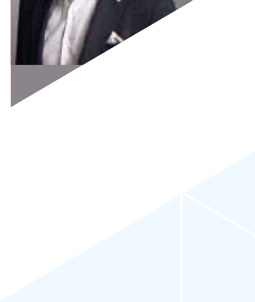
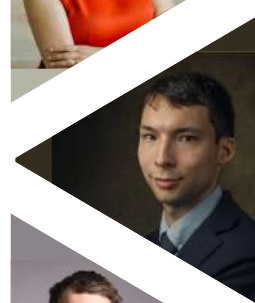
**Policy Officer Technical & Environmental Affairs
European Construction Industry Federation**

Mr. Johannes Moser

**Advisor
German Sustainable Building Council**

Mr. Oleksandr Shkin

**Director
Association of Water Canals of
Ukraine (Asociacia Vodokanal)**



INSIGHTS FROM THE SPEAKERS

OPENING REMARKS

Mr. Oleksandr Pankov

Director, Department of Technical Regulations Ministry of Economy, Ukraine

- Ukraine continues to move towards the Green Deal: a lot of standards in safety and quality and environment are being applied. Working on quality regulations would improve Ukraine's export operations. Ukraine is grateful to all European and international partners for the support received and the partnerships built.
- Green economy is particularly important for the ACAA Agreement (Agreement on Conformity Assessment and Acceptance of Industrial Products), which represents one of the top priorities of the Government of Ukraine. Recommendations provided by European experts are very much welcomed, particularly to implement green standards, which allow progressively meeting the requirements of European regulation in the security and defense sector, environmental management systems, information management systems and public security management systems, among others.

"Harmonization and implementation of European standards brings value for Ukraine, particularly for increasing competitiveness and promoting investment. Ukraine today is a modern and European country, and we are therefore much interested in cooperation at European and international level."

Ms. Anne Bercio

**Trade Officer
EU Delegation to Ukraine**

- The EU Delegation actively supports the work of Ukraine in the field of standardization and green recovery. The recovery should be related to not only investment and public procurement, but also production, and this is what the EU wishes to promote through the ACAA Agreement.
- The EU Delegation is promoting the negotiations of the ACAA Agreement, which includes the field of standardization.

In this respect, pre-assessment exercises on standardization have been conducted and the implementation of a set of recommendations is being actively supported.

"We are committed in facilitating the negotiations of the ACAA Agreement. Besides standardization, we are progressing in other fields of this complex system of quality infrastructure, for instance, conformity assessment."

Mr. Steffen Kaeser

Chief, Division of Competitiveness,
Quality and Job Creation - UNIDO

- UNIDO has been a development partner of Ukraine in the area of trade since 2018, leveraging its more than 50 years of experience in building and strengthening quality infrastructure around the world. Within the Global Quality and Standards Programme (GQSP), an initiative supported by the Swiss Federation through SECO, UNIDO has established an excellent collaboration with the Ukrainian Standards Body and the main quality infrastructure institutions in the country.
- A green reconstruction provides a chance to turn challenges into opportunities for building back better, particularly by adopting and effectively implementing new green practices, which have been codified into international standards. Translated into technical regulations, standards are a key element in defining specifications for public and private investment projects, services and their management.

“Reconstruction of physical infrastructure can allow Ukraine to overcome a significant carbon footprint, reducing potential climate impact and increasing energy and resource efficiency—thereby becoming a pioneer of such practices in Europe. At the same time, these reconstruction efforts can help Ukraine to align with European legislation and requirements as part of its EU accession efforts.”

Mr. Eric Marchand

Programme Manager
CEN and CENELEC

- Standards have an unparalleled capacity to address the most relevant challenges of today's world, particularly climate change and digital transition. CEN & CENELEC, as two out of the three officially recognized standardization organizations in Europe, support this process. In its over 60 years of history, CEN & CENELEC have developed more than 26 thousand high-quality European standards for products, systems, and services across all sectors.
- CEN & CENELEC are strengthening the cooperation with Ukraine on trade, sustainability and innovation topics. UAS became an “affiliate” of CEN & CENELEC, which represents the most advanced cooperation framework that could be built with CEN & CENELEC. Under this status, UAS has direct access to standards for review or for adoption, as well as the opportunity to contribute to the work of CEN & CENELEC technical committees (at present, UAS representatives are participating in 60 technical committees).
- Additionally, in March 2022 together with members at the national level, within the Conflict Crisis Management Network, a CEN & CENELEC Management Center has been instituted, with the aim of maintaining close cooperation and providing support to UAS.

“CEN & CENELEC are committed to providing support to Ukraine, particularly UAS, including through its network of European stakeholders.”

Mr. Oleg Shvydkyy

Head
UAS

- UAS is currently an “affiliate” member of CEN & CENELEC, with the aim of promoting the harmonization of Ukraine standards. The cooperation with CEN & CENELEC is very valuable for Ukraine, and UAS’s ultimate strategic goal is to become a fully -fledged member of CEN & CENELEC.
- UAS is committed to increasing cooperation with European Union and European communities to create an effective standardization system, particularly implementing European best practices, including by establishing the Ukrainian National Standardization Authority based on the European standards.

“Together we can create a strong standardization system, able to implement modern approaches to standardization.”



PANEL DISCUSSION

Mr. Nigel Croft

Expert on Quality Infrastructure UNIDO

The Green Reconstruction of Ukraine: Opportunities and Challenges

- Three core elements for successful reconstruction are: (i) making sure that Ukraine gets the timely support it needs—from relief, to rehabilitation, to long-term reconstruction; (ii) having the right mechanism in place to provide broad and inclusive support; and (iii) firmly embedding Ukraine's reconstruction efforts as part of its path towards the European Union.
- UNIDO is strongly committed to supporting core quality infrastructure institutions, particularly the Ukrainian Research Institute of Standardization, Certification and Quality Problems (SE UkrNDNC- “UAS”), the National Accreditation Agency of Ukraine (NAAU), and the Ukrainian State Center of Metrology (Ukrmetrteststandard), to promote a green and sustainable QI system.
- The green reconstruction process should embrace policy initiatives at the international and European levels, such as the ISO “London Declaration” on Climate Action, the EU “Green Deal”, and the EU “Net Zero” initiative. It should also consider the use of overarching standards to support policy initiatives for “Green reconstruction”, for instance, the ISO 20400:2017 (Sustainable Procurement — Guidance).
- Among the main elements having a direct impact on sustainability in reconstruction are: (i) the design for reconstruction (for instance through optimization of design and rebuilding “greener”; the use and availability of local material); (ii) the material used for the reconstruction (for instance preferring local material); and (iii) the construction methodologies adopted.
- Among the challenges that characterize the application of standards in green reconstruction could be mentioned: (i) the huge number of applicable standards for green reconstruction, including standards at policy/strategic level, so as more specific standards; and (ii) the multilayer of standards existing, including international standards (ISO and IEC), regional standards (CEN/CENELEC), as well as some Voluntary Sustainability Standards (VSS) that do not fall under the umbrella of National Standards Bodies.

“A draft National Guiding Framework of Standards and Technical Regulations for the Green Reconstruction of Ukraine is currently being designed jointly with the involvement of several national and international stakeholders, to ensure that reconstruction activities are anchored in sustainability principles.”

Mr. Tom Cantillon

Policy Manager for the London Declaration British Standards Institution (BSI)

The London Declaration: standards in support of an inclusive net zero transition

- The London Declaration is the result of the realization that standards have a critical role in supporting a net-zero transition for the economy and society. The London Declaration has been proposed by BSI in September 2021, during ISO general assembly, and subsequently endorsed by all ISO members, as well as CEN & CENELEC, and IEC. Its implementation is supported by the standards development organizations (SDOs) in question.
- Three core pillars characterize the application of the London Declaration:
 - (i) All new and revised standards should include consideration of climate science and associated transitions.
 - (ii) The involvement of civil society and those most vulnerable to climate change in the development of standards and publications.

(iii) The creation of an Action Plan and Measurement Framework detailing concrete actions and initiatives for accountability purposes

- Due to the systemic nature of climate change stakeholder, buy-in and engagement across and outside the standards world is necessary, and that is why both internationally and nationally BSI is putting a focus on engaging the technical community and engaging across SDOs.
- Standards have a key role in facilitating an inclusive net-zero transition, since they occupy a non-regulatory space that the industry needs to have guidance on what good looks like when responding to challenges of climate change within their own sector and create a more agile and flexible environment to define and implement that.

“Systemic change requires new ways of working, and interventions across the system. There is an obligation on the international standards community to ensure that all our standards are aligned with net-zero transition, or at least are not operating as blockers to facilitating a net-zero transition.”



Ms. Alessia Gaetani

Project Manager CEN and CENELEC

Overview of European Standards and Legislations related to sustainability and green reconstruction

- Sustainability is now in the spotlight and high on the EU agenda. As a matter of fact, the European Union is revising existing legal instruments to assure sustainability considerations are reflected in such tools, particularly to align them with the strategic ambition of the European Green Deal. For instance, the EU Construction Products Regulation is being revised to introduce the environmental sustainability prospect on construction products. Similarly, there is a proposal for recasting the Energy Performance of Building Directive towards reaching zero-emission and fully decarbonized building stock by 2050.
- CEN and CENELEC gladly invite Ukrainian experts to join the discussions in the European Technical Committees and contribute to the development of European Standards. UAS has the right to appoint observers in all TCs and experts in the WGs, and to adopt European Standards as National Standards. At present, UAS has already sent observers to more than 60 CEN and/or CENELEC Technical Committees.

"European Standards play a crucial role in the green transition, providing manufacturers—including SMEs—with common guidelines on several aspects, including environmental performance, circular solutions, energy efficiency, material efficiency, and recyclability."

Mr. Oleksandr Machulskyi

Director Ukrainian Agency for Standardization, UAS

The role of UAS in the adoption and implementation of European standards for green reconstruction in Ukraine

- Ukraine is a member of several standardization organizations, including ISO, IEC, CEN & CENELEC, and ETSI, and these efforts and international collaborations are in continuous expansion. In total, 27 international agreements and memoranda have been concluded between UAS and international and regional standardization organizations.
- Ukraine is promoting and supporting the participation of national experts in Technical Committees within international standardization organizations. For instance, 41 Ukrainian experts work as O-members in 156 ISO structural units; 20 Ukrainian experts work as O-members in 64 IEC/TC/SC structural units; while 35 Ukrainian experts work as observers in 60 CEN & CENELEC Technical Committees.

"Ukraine is strongly committed to aligning with EU regulations and standards. In 2022, a total of 20,727 standards were adopted, out of which 20,604 are CEN & CENELEC standards."

Ms. Kripka Liudmyla

**Executive Director
Association of Cement Producers of
Ukraine (“Ukrcement”)**

Readiness of the private sector to integrate sustainability principles and make use of standards for the Green Reconstruction of Ukraine

- The Association of Cement Producers of Ukraine “Ukrcement” consists of five cement production companies with a total of nine plants located across the whole territory.
- Progressively integrating and applying EU technical regulations and the use of standards is very important for the green reconstruction of Ukraine.

“Despite the challenging situation, for the moment we can hear the needs of the market quite well, and we will do our best to meet such needs.”



OPEN DISCUSSION

Mr. Philippe Moseley

**Policy Officer, Sustainable Industrial
Policy and Construction Unit
European Commission (DG Grow)**

- The commission proposed a revision of the EU Construction Products Regulation with the aim of (i) proving the functioning of the single market of construction products, and (ii) better integrating sustainability requirements for construction products into the regulation.
- A piece of legislation relevant to green reconstruction is the EU taxonomy for sustainable activities, a cornerstone of the EU's sustainable finance framework and an important market transparency tool that helps direct investments to the economic activities most needed for the transition, in line with the European Green Deal objectives. This tool is applied on a voluntary basis, and the results are particularly useful for financial institutions providing green investment or companies wishing to label the investment as green.

"The EU taxonomy for sustainable activities allows for classifying and defining sustainability in operations. It provides a common classification system of what is sustainable, particularly in relation to circular economy criteria for construction work."

Mr. Janis Aizsalnieks

**Policy Officer, Ukraine Support Group
European Commission (DG Near)**

- The Ukraine Support Group coordinates the expertise and resources of the EU Commission services in Ukraine in support of the reform programme and the implementation of the EU-Ukraine Association Agreement. DG Near works in close cooperation with relevant EU DGs and the EEAS in Kiev, and with Ukrainian authorities.
- The decision of the EU to grant Ukraine the candidate status is a game changer for the private sector in Ukraine and the integration into the new market. It will enhance investment, bringing much-needed connectivity and integration into the value chains.
- Accelerating measures to integrate Ukraine further into the single market is a priority for both the EU and Ukraine, particularly to facilitate trade liberalization, progressing on access to the EU market for industrial products. This agreement was formalized by signing the Priority Action Plan for the FTA implementation.

"Our next important milestone should be the achievement of ACAA Agreement between EU and Ukraine, and the intensive work to ensure that norms and standards are integrated into the reconstruction of Ukraine."

Ms. Roksolana Shelest

Economic Affairs Officer
UNECE

- UNECE is implementing several initiatives and shaping tools to support Ukraine in its reconstruction process. International partnerships are key for the effective realization of such support. Among others, initiatives include:
 - UNECE PPP and Infrastructure Evaluation and Rating System (PIERS)
 - UNECE Portal on Standards for the SDGs
 - UNECE redoubles support to Kharkiv and Mykolaiv reconstruction planning
 - Working Party on Regulatory Cooperation and Standardization Policies (WP.6)
 - Working Party on Agricultural Quality Standards (WP.7)

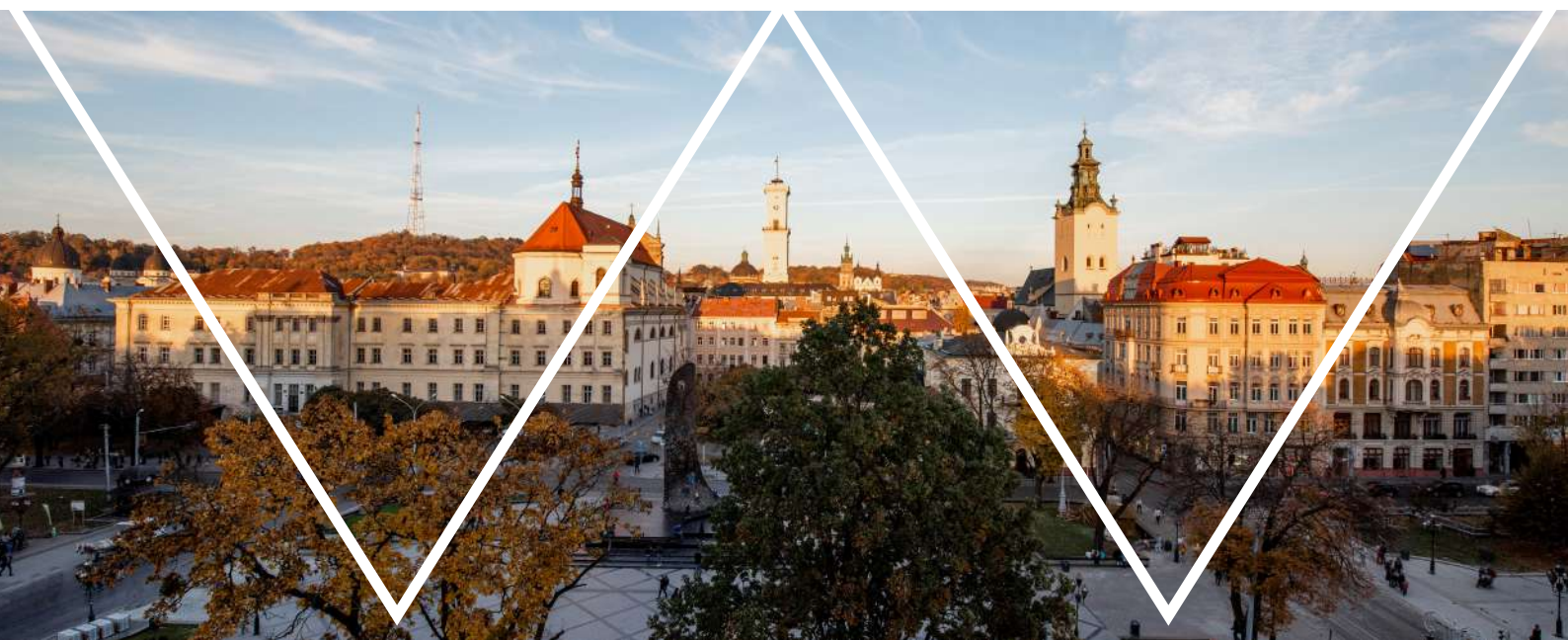
"UNECE, particularly through its Housing and Land Management Department, is committed in supporting the reconstruction of destroyed cities in Ukraine."

Mr. Jerome Radtka

Policy Officer, Technical & Environmental
Affairs
European Construction Industry Federation

- The European Construction Industry Federation identifies a good and sustainable reconstruction of Ukraine as a priority. For this purpose, the Federation set up an internal task force for Ukraine, which serves as a platform for coordination, particularly to gather stakeholders from the construction ecosystem, including architects, engineers, and machinery manufacturers, with representation from the whole construction chain.

"The Federation continues promoting strong cooperation with Ukrainian authorities, as well as with several representatives from Ukraine's private sector, to contribute to identifying the needed support for the reconstruction of Ukrainian cities on a more local level."



Mr. Johannes Moser

Advisor

German Sustainable Building Council

- The German Sustainable Building Council represents the second biggest building council worldwide. It provides holistic certifications for sustainable building infrastructure. The Council conducts extensive academy work, training for consultants, and certifications. The German Sustainable Building Council could support the green and sustainable reconstruction through knowledge transfer and training.

“Partnerships with Ukrainian experts on sustainable reconstruction are already established and we will do our best to support the process.”

Mr. Oleksandr Shkin

Director

Association of Water Canals of Ukraine (Asociacia Vodokanal)

- The Association recognizes the need for standardization and the work of UNIDO in supporting this process. A strong collaboration with UNIDO is already established, particularly on the implementation of the ISO 5001 standard on energy management. Several initiatives with the Ukrainian representative office of UNIDO already have been implemented.

“Standards for determining water quality indicators are very important for us, especially in the framework of recent events with water supply.”



Event organized with the contribution of:



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