



Republic of North Macedonia  
Government of the Republic of North Macedonia



JOINT SDG FUND



UNITED NATIONS  
NORTH MACEDONIA

# **Training Course for Verification Consultants on the Verification of Energy Efficiency and Renewable Energy Projects**

*Skopje, 30 November 2023*

## **INTRODUCTION**

UNECE is implementing extrabudgetary project “Improving national capacity on renewable energy (RE) and energy efficiency (EE) technologies for small and medium enterprises (SMEs) and households in North Macedonia.” This project is part of a Joint Programme funded by the UN Joint SDG Fund “Green Finance Facility to Improve Air Quality and Combat Climate Change in North Macedonia” jointly implemented with UNDP (lead agency) and IOM under the overall coordination of the Resident Coordinator Office in North Macedonia.

The project aims to improve national capacity on renewable energy (RE) and energy efficiency (EE) technologies for SMEs and households in North Macedonia. The project contributes to overcoming the barriers, including enabling and triggering the unlocking of private capital for investments in renewable energy and energy efficiency solutions.

This Joint Programme set up and operationalizes Green Financing Facility, a new financial vehicle, that will provide access to affordable green financing for SMEs and marketable but underserved target groups of individuals/ households for investments in RE and EE solutions. The GFF-enabled accelerated adoption of RE and EE solutions will contribute to the reduction of greenhouse gas emissions and air pollution and strengthen the local ecosystem for RE and EE green finance.

UNECE is providing technical assistance and capacity building on RE and EE technologies for SMEs to the project and verification consultants. UNECEs' role is to design and implement training tailored to support the consultancy companies using the updated list of eligible technologies to develop projects and monitor and verify the projects' performance (planned vs. actual).

One of the project activities includes conducting a training course for verification consultants on verifying RE and EE projects in North Macedonia. The verification consultants will be trained to ensure that funded investments have been completed according to the original investment plans. After successfully verifying the completed project, performance-based payments will be made to borrowers.

## **AUDIENCE**

Participants must have some technical and financial background and experience in project management and understand the basic principles of project evaluation and project finance.

## **LEARNING OUTCOMES AND COMPETENCES**

By the end of this training seminar, the participants will gain knowledge and expertise in energy management, energy auditing, monitoring, reporting, and verification of renewable energy and energy efficiency measures. The training will provide in-depth knowledge and understanding of verifying renewable energy and energy efficiency projects.

## **FORMS OF TEACHING**

The following form of teaching will be used during the training seminar:

- Classroom lectures (PowerPoint presentations);
- Calculation exercises using calculation tools.

## **SCHEDULE**

The training seminar will be organized for verification consultants working with SMEs in North Macedonia and verification consultants working with households in North Macedonia.

# AGENDA

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9:00      **Registration of Participants**

9:30      **Welcome Addresses**

*Ms. Sanja Bojanic, UNDP Deputy Resident Representative (TBC)*

*Mr. Oleg Dzioubinski, Regional Adviser on Energy, United Nations Economic Commission for Europe (UNECE)*

9:45      **Objective of the Training Programme**

*Ms. Nadejda Khamrakulova, Economic Affairs Officer, UNECE*

*Mr. Matija Vajdic, UNECE Consultant*

10:00      **Role of Verification Consultant during GFF Implementation**  
**Scope of work (Ex-post Verification of Completion, Ex-post Verification of Impact, Verification Reporting)**

*Mr. Matija Vajdic, UNECE Consultant*

10:45      **Monitoring, Reporting, and Verification (MRV)**

- Basic principles of the Measurement, reporting, and verification (MRV)
- Aim of the verification
- Examples of MRV

11:30      **Coffee Break**

12:00      **Energy Efficiency (EE) Measures**

- Analysis of the energy demand
- Energy retrofit measures (energy, financial, and CO2 emission reduction)
- Basic energy savings calculation
- Data collection

13:00      **Verification of EE Measures**

- EE measures in the buildings sector (HVAC, DHW, lighting, etc.)
- Measures related to district heating systems
- Public lighting
- E-mobility
- Electric motors in industry















14:00      **Lunch**

15:00      **Renewable Energy Systems (RES) Measures**

- Analysis of the energy supply
- RE measures (energy, financial, and CO2 emission reduction)
- Basic energy generation calculation
- Data collection

- 16:00      **Verification of RES Measures**  
              - Photovoltaic systems  
              - Solar systems for heating
- 17:00      **Open Discussion**
- 17:30      **Closing**
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**UN Implementers:**



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