



CERTIFICATE OF PARTICIPATION

This is to certify that

Kristina Karbanova

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has successfully participated in the International Workshop-Webinar
“Sustainable Development of Renewable Energy:
Economic, Managerial, and Technological Aspects”
held on April 6–10, 2026.

Learning Outcomes (1.5 ECTS Credits)

Module 1. Bioenergy Heating Systems: Technologies and Economic Assessment

- Technological foundations and operational features of biomass-based heating systems
- Methodological approaches to the economic assessment of biomass heating systems
- Comparative analysis of heating costs using different energy sources
- Investment attractiveness & Economic efficiency of district heating systems

Module 2. Photovoltaic Systems: Technologies and Economic Aspects of Use

- Technological principles and economic efficiency of photovoltaic systems
- Models and economic aspects of self-consumption of electricity in photovoltaic systems
- Technical characteristics and economic feasibility of energy storage systems

Module 3. Renewable Electricity Systems

- System principles of wind and hydropower generation
- Investment attractiveness & Economic efficiency of wind and hydropower installations

Module 4. New Energy Solutions and Energy-Efficient Mobility

- Economic efficiency of electric vehicle usage
- The role of electromobility in the transformation of modern energy systems

Ralf Schlauderer
Prof. Prof. h.c. mult. Dr. Dr. h.c. mult.