

International Climate Initiative

Climate Partnerships with the Private Sector: Preparation of a substrate ledger for the realization of the biogas potential

Moldova is one of the weakest economies in Europe with a GDP of less than 2,000 dollars per capita. The country is 100% dependent on gas imports from Russia. Around 30% of the fossil fuels are imported. Increasing energy efficiency, strengthening the importance of renewable energies and establishing new energy partnerships are the declared strategic objectives of the government. Moldova has an energy strategy in line with international decarbonization targets and agreements. An RE FiT is in legislative process and the relevant institutions and regulations have been developed in accordance with EU standards. This progress is paving the way for the expansion of renewable energies in the country. It is therefore a high priority to capture calorific values, to analyse and to classify them, and to make realistic proposals for their value in the form of co-substrates for biogas production.

Within the scope of the Climate Partnership's project, a substrate ledger is to be compiled describing the existing waste and products of farms in three regions of Moldova. The result will be the basis for biogas projects in the target regions.

The project company, Maschinenring Kommunalservice GmbH (MRK), is a subsidiary of the Maschinenring Kassel und Göttingen e.V. The MRK was founded by German farmers in 1989 in order to reduce the expensive over mechanisation in rural areas and release money for more economic investments.

The MRK is in concrete negotiations for the implementation a number of biogas plants in Moldova. When implementing a biogas plant with a capacity of 1.8 MW, 637 t CO₂ can be avoided each year by replacing natural gas. In the case of successful market penetration, it can be assumed that biogas plants in Moldova can effectively avoid approx. 150 MW of electricity produced from natural gas, which would amount to about 530,000 tonnes of CO₂ per year. The substrate ledger is an essential prerequisite for the realisation of this potential.

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Private sector partner:	Maschinenring Kommunalservice GmbH
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