Maschinenring Kommunalservice (MRK) in Göttingen, Germany, manages 270 biogas plants, some of which they have designed by themselves. Although most of these facilities are being operated on livestock farms, there are also a few larger communal facilities in the portfolio. Through daily maintenance and operational monitoring, as well as regular investment, MRK demonstrates its expertise in cost-effective construction and highly economically efficient operation. This concept is known as the developer model, as no turnkey installations are ordered which may no longer be suitable after a short period of time.

Farm based Biogas plants
for the energy transition in Moldova

With the support of the German Federal Environment Foundation (Deutsche Bundesstiftung Umwelt - DBU), MRK wants to help Moldovan medium-sized enterprises and individual municipalities to build and operate high-efficiency biogas plants in Moldova. For this purpose, MRK has implemented for years other preparatory projects in the Republic of Moldova, among which are the training of technicians for biogas installations in Chisinau (with the support of SEQUA), the database on liquid substrates in rural areas (with the support of DEG) and the Handbook on the Use of Liquid Manure as Agricultural Fertilizer in South-Eastern Europe (with the support of the Federal Environment Agency).

The current project is aimed to support farmers and local public authorities in Moldova and will be carried out in three stages during 2024:

- Information (virtual and with presence),
- Advising farmers in their farms and through monitoring meetings (starting immediately) and
- Support for associations and the development of effective long-term planning, maintenance and operation skills.

Farmers may contact Alexei Micu for advice or find out about the campaign on our website www.biodeseuri.md or via Agro-TV. Starting from January 2024, advising sessions will be organized regularly in Moldova: starting from the 4th calendar week. The aim of the project is to enable agricultural farms to plan their own facilities and to develop a tender system under the guidance of MRK, by transferring the knowledge in order to have the same quality and conditions for their facilities and technical components in Moldova. Thus, in the short term, between 10 and 20 installations can be launched in the agricultural or communal setting.

Two other objectives benefit from this:

1. Valuable nutrients from agricultural waste (especially manure from pigs, cattle and chickens) are used to produce humus and fertilize and stop polluting **lakes and rivers**. This reversal of the nutrient cycle is historic and is due to occur in 2024.
2. Instead of imported natural gas, agricultural farms produce their own electricity and heat from local waste to ensure the **transition** to renewable energy. This reduces expenses, increases people's comfort and strengthens national democracy.

Therefore,MRK and DBU project is closely related to the Coșnița bioenergy village project in Dubăsări and the spredaing of manure. All measures are closely coordinated with the Ministries of Economic Development and Digitization, Environment and Agriculture and Food Industry in the capital of Moldova.

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