

Hungary

Green energy

Project name: *Setting up community wind farms (sun farms, sun collectors, mini CHP units operating on vegetal oil)*

Project financed through the LEADER Axis

Beneficiary: BÜKK-MAK LEADER Nonprofit Kft.

Project location: Borsod-Abaúj-Zemplén, Hungary

Development region: Northern Hungary

Implementation period: May 2010 – December 2012

Total project cost: EUR 1,025,925

Non-reimbursable EU contribution: EUR 820,740

Non-reimbursable national contribution: EUR 205,185

Co-financing (beneficiary's contribution): EUR 0

Addressed topic: LAGs, preserving the ecosystem and environmental biodiversity

The local development strategy of the Local Action Group "Leader Non Profit BÜKK-MAK" includes an innovative project named "1 Village – 1 MW", implemented between 2009-2010. The project covers the setting up of 27 wind farms in local communities, for demonstrative and educational purposes as regards the use of green energy systems.

This project allows rural communities to enter the 21st century by the integrated use of sun, wind, geothermal and biomass energy.

And, considering that the project requires a high degree of relevant knowledge and expertise in the field, the LAG benefited from the support of Virtual Micro Network Balance Circle Cluster (MIKROVIRKA), the holder of



significant expertise in the field of smart grid constructions.

In the first stage of the project, 27 wind farms were set up in rural communities, as well as 24 PV sun modules, 5 mini power plants using vegetal oil, 2 sun paraboloids, 2 pellet boilers, 18 sun collectors and a wind turbine. The entire system is controlled through the MIKROVIRKA Control Smart Grid and Energy Information System, based on GPRS internet connection. By means of this system, the output electricity may be sold to the national electricity grid.

The beneficiaries of the energy generated by these systems are the local communities, schools and kindergartens.

Thanks to this project, the energy consumption in schools and other public buildings decreased. At the same

time, population became aware of the significance of renewable energy.

"This project was successful because the targets were clear-cut and simple, and because the activities were observed. In addition, it was developed within the local development strategy and acted in favour of achieving its targets. The bottom to top approach ensured wide social support from our communities. Locals are delighted with the project and proud that their village has such facilities", declared the representatives of Leader Non Profit BÜKK-MAK LAG.

REGISZTRÁCIÓS SZAM:
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