

BULGARIA: RUNO KAZANLAK - POOL OF RENEWABLE ENERGY PROJECTS

Kyoto Mechanism:	Joint Implementation
Project Category (UNFCCC):	Energy (renewable / non-renewable sources)
Location:	various locations in Bulgaria
Emission Reductions purchased:	776,783 t CO ₂ -Äquivalente



The Project comprises the construction and operation of 13 small hydro power stations and 7 wind energy parks located in different regions in Bulgaria and amounting to a total installed capacity of approx. 53 MW. The individual hydro power stations and wind energy parks will be constructed and operated by 15 individual project companies, whereby the Bulgarian Joint Stock Company Runo Kazanlak acts as aggregator and contractual partner of the Austrian JI/CDM Programme.

Since 2003 Runo-Kazanlak owns and operates another eight small hydro power stations and will be in charge of the coordination of the overall project and the central monitoring of the emission reductions expected from the pool of projects. The Sofia-based civil engineer and consultancy CoGen Engineering Ltd. advises the development of the overall project as JI project.

In addition, the project pool includes a fuel-switch project located at Runo-Kazanlak's factory for the processing of raw wool, in the course of which the steam power production necessary for the raw wool treatment and heating of the factory buildings will be switched from heavy fuel oil to natural gas. The measures for project implementation consist of the construction of a gas distribution station together with a natural gas pipeline network as well as the measurement and control systems.

Expected annual electricity generation from the pool of small hydro power stations and wind energy parks amounts to approx. 172,000 MWh_{el}. The volume of emission reductions expected as a result of export of the generated electricity to the state grid adds up to approx. 800,000 t CO_{2e} in the period 2008-2012. The fuel-switch project is expected to reduce emissions by roughly 24,000 t CO_{2e} in the same period.



Commissioning of the individual plants takes place gradually and is scheduled for completion until April 2008. Operation of the plants and the central monitoring will create 87 new jobs and the electricity sales revenues will contribute to regional value added.

Registration of the project with UNFCCC (track 2) the is scheduled for March 2007.