

## HUNGARY: N<sub>2</sub>O EMISSION REDUCTION PROJECT AT THE NEW ACID PLANT OF NITROGÉN MŰVEK RT.

Kyoto Mechanism:	Joint Implementation
Project Category:	chemical Industry
Location:	Petfűrdő, Hungary
Emission reductions purchased:	2.000.000 t CO <sub>2e</sub>



The project owner is one of Hungary's largest producer of fertilisers and runs its production facility in Petfűrdő. In the course of investments to renew different production facilities of the plant, the existing nitric acid plant will be renewed. In the year 2006, the old plant will be closed down and dismantled and the new plant will be commissioned in compliance with all relevant environmental and technical standards.

At the same time it is planned to install a catalyser for the reduction of N<sub>2</sub>O- and NO<sub>x</sub> emissions in the exhaust fumes of the fertiliser production.

Through this technology, the catalyser will reduce the N<sub>2</sub>O content in the exhaust fumes by 85% to 90%. Without the sale of the emission reductions via the flexible mechanisms of the Kyoto protocol, this project would not be realised due

to the lack of incentive or legal provision for the project owner to invest in projects for the avoidance of N<sub>2</sub>O emissions.

Besides the reduction of N<sub>2</sub>O, the reduction of NO<sub>x</sub> and dust emissions, as well the increased efficiency in the use of energy in the plant generate positive effects on the environment.

Additionally, part of the revenues from the sale of emission reductions will be used for further investments in environmental relevant projects such as additional reduction of emissions through the installation of filters and the increase of the storage capacity of the existing wastewater treatment plant.

