"NAFTOGAS OF UKRAINE"

BRANCH COMPANY

"UKRTRANSGAS"

MANAGEMENT OF MAIN GAS PIPELINES

"CHERKASYTRANSGAS"

Implementation of the Project on Natural Gas Leak Reduction at the Management of Main Gas Pipelines "Cherkasytransgas"

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Management of Main Gas Pipelines "Cherkasytransgas" is one of six subdivisions of Branch Company "Ukrtransgas". The Management's balance includes 5000 km of gas pipelines, 23 compressor stations located in 11 Ukrainian regions. Annually the Management transmits 100-120 bn. m³ of natural gas from Russia and Turkmenistan into the West European countries.



This project resulted in annual gas leak reduction of 1.9 million m3 at two compressor stations, the cost of which makes up 101.3 thousand USD, taking into account that the total project cost is 83 thousand USD.



The Management used EcoLinks funds to purchase Hi Flow Sampler for gas leak measuring manufactured by Bacharach, Inc. The similar devices are not found in Ukraine.

Since 2002, according to the enterprise's order on leak inventory, equipment inspections to detect gas leak have been delivered to all facilities of the management.



Project "Leak Reduction at Compressor Stations of Management of Main Gas Pipelines "Cherkasytransgas" in 2005-06.

- Project stages to eliminate leaks at compressor station valves are the following:
- Leak detection at compressor stations;
- Leak measuring;
- Results assessment;
- Repairing plan development;
- Repair works;
- Post-sealing measurements to define repair works efficiency;
- Reports on provided work.

The project cost is USD 446,000.

- USD 200 thousand IUEP grant funds.
- USD 246 thousand own funds.

Gas leak elimination reached 5.9. million m3 at 251 valves. The project payback period is less than one year.





Hi Flow Sampler manufactured by Bacharach, Inc. measures volume of gas leak at compressor stations and linear gas pipelines.











Post-sealing measurements are carried out to define sealing efficiency.



Report on work results is compiled at the end.



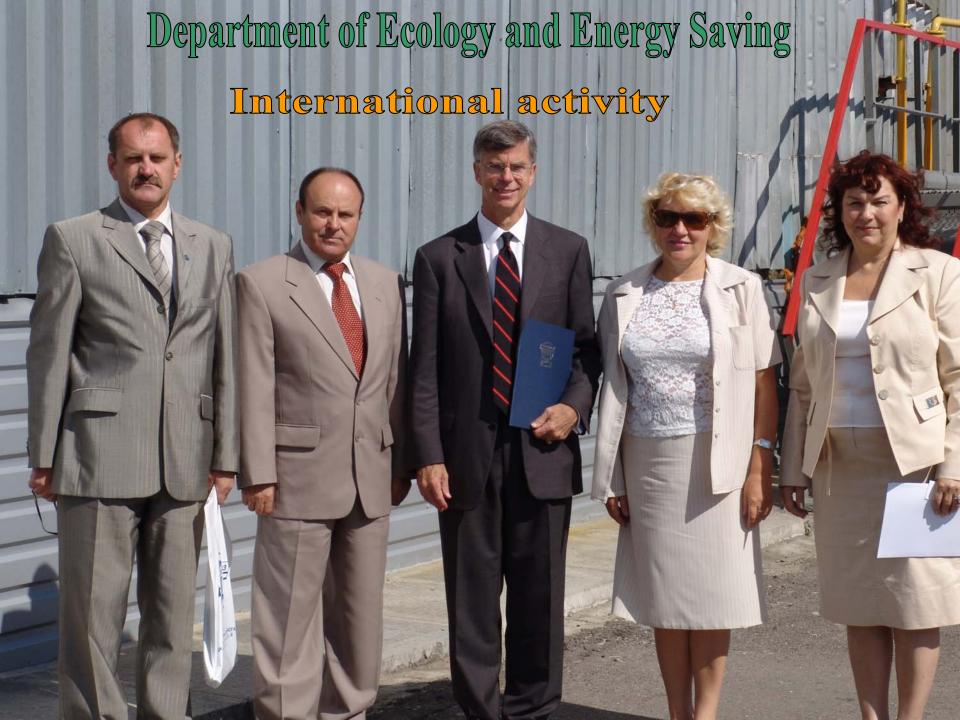
Report on work results is compiled at the end.

At present, the Department of Ecology is planning implementation of measures to reduce methane emissions at facilities of "Cherkasytransgas" in cooperation with the Pacific Northwest National Laboratory. These activities are aimed to eliminate methane emissions at 255 valves in the period of 2007-2009.

Forecasted reduction of methane emissions - 4.45 million m3.

Our goal is:

- •Significant reduction of methane emissions in the facilities of "Cherkasytransgas";
- Improving efficiency and speed of gas leak elimination at valves;
- Improving valve operation after sealing;
- Upgrading valve sealing;
- •Diagnostics of valve state;
- •Extending "Cherkasytransgas" experience around the whole gas pipeline system of Ukraine.



THANK YOU