INOGATE Country Coordinators and Working Groups Meeting
Brussels, 18-19 May 2011

Project: Feasibility Studies for expanding the Boyarka Gas Metrology Centre
Kyiv region, Ukraine

Presenter: Mr. Arie van Delft/Team Leader
Fact box

Project Title
Feasibility Studies for expanding the Boyarka Gas Metrology Centre to Include (a) oil, oil products, liquefied gas metrology, (b) leakage (satellite) monitoring, (c) optimization and control of hydrocarbons transit flows and (d) to offer training facilities, Kyiv region, Ukraine

Completion date
December 2011

Beneficiary country
- Ukraine

Objectives
- Assessment of commercial, technical and environmental aspects of expanding of BMC for new services
- Support the development of an International Training Centre for gas and oil metrology excellence
Achievements to date

- Inception Phase completed (January 2010)
- Project Preparation report, covering analysis of the existing EU best practices (approved by Beneficiary 30 April 2010)
- **Component (a) Oil, Oil Products, Liquefied Gas Metrology:**
  - List of equipment and cost estimate for instruments and oil metrology laboratories
  - First draft of business plan discussed
- **Component (b): Leakage Monitoring:**
  - Overview of available hardware and software leakage monitoring systems
  - Demonstration of FLIR camera and study missions to the Netherlands, Belgium
- **Component (c): Optimization and Control of Hydrocarbon Transit Flows:**
  - Potential savings min. 5% of the energy cost used for GTS in Ukraine
  - Investment required in telemetry and Scada systems of approximately US 40 Mio
- **Component (d): International Training Centre for oil and gas metrology**
  - Preliminary ITC layout and cost estimate for building and facilities
  - Initial document on methodology of ITC and Train the trainers
Photo log

Demonstration of FLIR camera
Keynotes

Next steps

- **Component (a) Oil, Oil Products, Liquefied Gas Metrology:**
  - Officially approve documents
  - Completion of Marketing study and Business plan

- **Component (b): Leakage Monitoring:**
  - Study mission in May-June 2011 to European leading GTS companies
  - Overview of portable and mobile instruments for the leakage detection/measurement
  - Pilot project with cost estimate and Return On Investment (ROI)

- **Component (c): Optimization and Control of Hydrocarbon Transit Flows:**
  - Final preparation and presentation results
  - Analysis of possible methods of process optimisation
  - ROI for enhancing telemetry system to exchange data from/to gas compressor station

- **Component (d): International Training Centre for oil and gas metrology:**
  - Final preparation of methodology and activities of state-of-the-art training centre
  - Development of requirements for training facilities and final cost estimation
  - Selection of trainers to be trained and their certification
Deliverables

✓ Feasibility Study report for components (a) thru (d), including EIA
✓ Business plans and marketing programs for extension BMC
✓ Concept promotional campaign
Project Impact

How the project meets Road Map objectives

- Further development of International recognized Metrology Centre with state of the art facilities
- Reduction in CO2 emissions and energy saving by optimizing GTS
- Increased awareness and security on leakage prevention, detecting, monitoring
- Increase and disseminate know how on gas and oil metrology

How the project has benefited its counterparts

- Metrological center with international accreditation
- Financial saving through reduction gas consumption GTS and environmental emissions, improve safety
- Financial saving through reduction of oil and gas losses and environmental emissions
- International Training Center of Excellence with state of the art facilities on gas and oil metrology
The project will be successful if our Feasibility Study report is accepted and gives rise to BMC services expanding in foreseeable future.