



2005 Activities Report

I. General Matters

- Mr E van Ingelghem of Fluxys, representing ARGB, was President of GERG during 2005.
- Mr M Florette, Gaz de France, was Vice-president of GERG during 2005.
- POGC Transmission, Poland, became a member of GERG in place of POGC and later changed their name to GAZ-SYSTEM Ltd. They will be represented in the Plenary assembly by Dr P Stanczak.
- DVGW, Germany, became a member of GERG during 2006. They will be represented in the Plenary assembly by Dr F. Gröschl.
- GERG officially became an "organisation affiliated to the IGU" and, as such, is invited to be a formal part of IGU activities.
- GERG has become a member of the EUROGAS 3rd pillar, with a guaranteed seat on the Eurogas Board. The GERG representative in the Eurogas Board will be the President, Mr Van Ingelghem.

II. Programme Committees

- The Programme Committees each met twice in 2005; a list of their current and proposed projects is attached as an appendix to this report. They were chaired as follows:
 - PC General Studies Dr K Altfeld, Ruhrgas
 - PC Transmission & Storage Dr G Re, Snam Rete Gas
 - PC Distribution Mr J-P Capdevielle, Gaz de France
 - PC Utilisation Mr W J Th van Gemert, Gasunie.

III. GERG Secretariat

- Mr D Pinchbeck was General Secretary of GERG during 2005.

III.1 Highlights

- GERG sponsored:
 - a meeting of the European Energy Forum in the European Parliament, Strasbourg on: "Strategic Natural Gas R&D Issues for Europe", with presentations from C. Beckervordersandforth and M. Florette:
 - the 12th Annual "Central European Gas Conference (CEGC)", in Budapest on 6 - 8 June.

- The Secretariat has continued its formal lobbying activities with regard to the European Commission's 7th RTD Framework programmes via:
 - ESWRAC, the European Street Works Advisory Council;
 - ECTP, the European Construction Technology Platform, making the case for R&D funding for gas networks in FP7.

The GERG Secretary accepted invitations to chair sessions at:

- European Forum Gas, Warsaw, September. Papers presented by Gasunie, Eon-Ruhrgas and Gaz de France on GERG projects: NATURALHY, PRESENSE & DIGBUILD;
- DG TREN's:
 - 2nd EU-GCC Seminar: "Natural Gas Technologies – Realities & Prospects", Doha, Qatar, February;
 - "3rd GCC-EU "Advanced Oil and Gas Technology Conference", Kuwait City, Kuwait, 28-30 November
- DG RTD's:
 - EU Enlargement & Integration Workshop on "Security and Reliability of Gas & Electricity Supplies", EC Joint Research Centre, Ispra, Italy.

The Secretariat accepted an invitation to help prepare the conference and present a paper, at: "China International Gas Exhibition & Conference (CIGEC) 2005, 2 - 4 November, Shanghai.

III.2 Events

- The GERG Board met twice during 2005:
 - Spring : - Trondheim;
 - Autumn : - Venice.

III.3 Members – 2005

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|------------------------------------|-----------------|
| ▪ Advantica Technologies | U.K. |
| ▪ ARGB | Belgium |
| ▪ BP | U.K. |
| ▪ Danish Gas Technology Centre | Denmark |
| ▪ DVGW | Germany |
| ▪ Enagas | Spain |
| ▪ E.ON Ruhrgas | Germany |
| ▪ Gas Natural | Spain |
| ▪ Gassco | Norway |
| ▪ Gasunie Engineering & Technology | The Netherlands |
| ▪ Gaz de France | France |
| ▪ Italgas | Italy |
| ▪ Kiwa Gastec | The Netherlands |
| ▪ POGC Transmission/Gaz-System | Poland |
| ▪ Snam Rete Gas | Italy |
| ▪ Statoil | Norway |

Appendix

GERG Activities Report - 2005

1. GERG PROGRAMME COMMITTEE TOPICS: Current

Programme Committee:- General Studies for the Gas Industry
Projects in execution:
1. Development of a Reference Calorimeter
2. General calculation program for the GERG reference equation
3. Biogas Characterization
4. Test of Coriolis gas meters
5. Sulphur powder
6. Hydrocarbon dew-point
7. Odourisation review
8. Study on CO ₂ sequestration & deposition
Projects in preparation:
1. Oxygen in natural gas
2. Feasibility of: quartz crystal sensors

Programme Committee:- Transmission and Storage
Projects in execution:
1. Multi-path Ultrasonic Meter. Phase III
2. Methodologies and techniques for buried pipeline corrosion diagnosis
3. Refining and extending the applicability of ECDA process
4. ILI Tool performance – Guidelines for pipeline operators
Projects in preparation:
1. Gas camera
2. 'SECURE-PIPE' in conduit
3. Feasibility of pipeline monitoring by acoustic emission system
4. Leak and shock detection system
5. Measurement of dust particles and aerosol mist in pipeline (Ph. II)

Programme Committee:- Distribution
Projects in execution:
1. DIGBUILD
2. NATURALHY (Part)
3. ALTMETER
4. Plastic pipe system designed for maximum operating pressure of 16 bar
5. Shallow trenches with conventional material and depths
6. Long-term quality of electro-fused connections for PE 100 and PE 80 pipes
Projects in preparation:
1. ORFEUS
2. Assessment of the suitability of modern NDT methods for inspection of joints in PE pipeline systems

3. Comparison of new mobile technologies to optimise operational activities
4. Recycling for reinstatement: reducing the environmental and financial costs of utility excavations
5. Permeation of methane and hydrogen through various plastic pipelines
6. Use of polyamide for gas pipe systems
7. MICUS: Online network for European utility networks

1. GERG PROGRAMME COMMITTEE TOPICS: Current (Cont.)

Programme Committee:- Utilisation	
Projects in execution:	
1.	LABNET
2.	COMBO
3.	NATURALHY (Part)
Projects in preparation:	
1.	NGV
2.	Mini and micro-CHP
3.	ASUE
4.	BINGO

2. APPROXIMATE VALUE OF GERG PROGRAMME - BY PC, OCTOBER 2005

	Value (k€)	EC funding (k€)	% of total
General Studies	1,549	0	0
Transmission & Storage	3,430	750	21.9
Distribution	1,115	350	31.4
Utilisation	19,940	12,150	60.9
Totals	26,034	13250	50.9