

marcogaz

Technical Association of the European Natural Gas Industry

Annual Report 2002 Annual Report 2002

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Table of contents

Introduction

Mission and tasks of Marcogaz

Membership in Marcogaz

Organisation

Organisation Scheme

Marcogaz Website

General Assembly

Executive Board

Developments in 2002

Standing Committee Gas Utilisation

Standing Committee Gas Infrastructure

Joint Group Environment, Health and safety

Work in relation to European Committee for Standardization (CEN) and the International Standardization Organisation (ISO)

Membership at 31 December 2002 of Standing Committees, Joint Group Environment Health & Safety and Working Groups

Introduction

Created in 1968, Marcogaz has developed over the years an efficient reputation with the official bodies in the European Union and other influential partners.

Marcogaz chief mission is to serve its members as the European window for any technical issue regarding natural gas.

As the representative organisation of the European Natural Gas Industry, it aims at monitoring and taking influence when needed on European technical regulation, standardisation and certification with respect to safety and integrity of gas systems and equipment, and rational use of energy.

Environment, Health and Safety issues related to natural gas systems and utilisation are also of great importance for Marcogaz.

Mission and tasks of Marcogaz

<u>Chief mission</u>	To serve the members as the European window on technical legislation and standardisation and to promote technical conditions required for the market success of natural gas
<u>Main tasks</u>	To promote safety, reliability, cost effectiveness and environmental advantages of natural gas systems and appliances
	To identify, monitor and take action on technical legislation at EU level
	To promote with the EU institutions fair European legislation reflecting the industry's high safety record and respecting subsidiary
	To actively monitor standardisation activities related to natural gas conducted by CEN, ISO, OIML and others
	To identify appropriate levels of competence for a safe and effective operation of gas systems
	To study any technical subject of interest for its members
	To promote cooperation with other associations representing the gas industry and the manufacturers

Achievement of the mentioned aims is sought by means of:

- defining views and common positions on issues of shared interest and representing these to international bodies, in particular to the European Communities, the European Standards Organisation (CEN) and the International Standards Organisation (ISO);
- promoting and monitoring European standardisation and related certification in selected areas;
- identifying the need for any new standards on topics of interest to the gas sector and associated research;

- promoting technical co-operation among the member gas industries;
- promoting and organising co-operation with related industries' associations, including other pipelines operating industries and manufacturers of equipment and appliances used for gas supply and for gas utilisation, and with consumers' organisations.

The activities of Marcogaz are listed in this report, implicitly highlighting the major objective for Marcogaz members to achieve an effective industry presence and response towards public and official queries and regulatory initiatives facing the gas sector at the European level and often following through to the national level. Industry co-operation within Marcogaz will ensure timely information, consultation and response, while offering a platform for authoritative and consistent industry representation making most effective use of industry resources in terms of experts, knowledge and finance required.

Marcogaz co-ordinates with Eurogas (European Union of the Natural Gas Industry) and GERG (European Gas Research Group), through a shared Secretariat and selected joint programmes. Marcogaz also co-operates with other major gas industry or consumer organisations such as:

AEGPL	European LPG Association
ANEC	European Association for the Co-ordination of Consumer Representation in Standardisation
CONCAWE	Oil Industry European Association for Environment, Health and Safety in refining and distribution
EASEE- Gas	European Association for the Streamlining of Energy Exchange-gas
EHI	Association of the European Heating Industry
ENGVA	European Natural Gas Vehicle Association
FAREGAZ	Union of European Manufacturers of Gas Pressure controllers
FACOGAZ	Chambre Syndicale des Fabricants de Compteurs à Gaz
GCI-UICP	Génie Climatique International – Union Internationale de la Couverture et de la Plomberie
GTE	Gas Transmission Europe
IGU	International Gas Union
INTERGAS MARKETING	
IPLOCA	International Pipe Line and Offshore Contractors Association
OGP	Oil and Gas Producers Association
TEPPFA	The European Plastics Pipe and Fitting Association

It consults and co-operates with other industry and business organisations involved in the issues at hand.

Membership in Marcogaz

Membership is open to natural gas supply and related technical organisations in European Union Member States and all other European countries interested in co-operation towards shared safety and quality objectives and standards, on any technical issue regarding the gas infrastructure systems, utilisation and protection of the environment.

For each country concerned, one membership embodies all relevant national gas organisations represented in one national delegation to the meetings, and corresponding to one membership dues amount payable each year.

At the conclusion of 2002, the membership extends over fourteen countries

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Organisation

Marcogaz has no formal incorporation status, it is a “de facto” association without official statutes.

The **General Assembly** of Marcogaz consists of national delegations representing the various gas industry companies and bodies sharing in the membership

The **Executive Board**, meeting normally 3 times a year, defines, adopts and controls strategies. It gives guidance to the two Standing Committees Gas Utilisation and Infrastructure, and, jointly to Eurogas, to the Joint Group Environment Health and Safety.

Industry **executives** and **high level experts** are members of the two Standing Committees and the Joint Group, in charge of their respective fields of activity.

Working groups are set up when required to deal with specific subjects.

The **General Secretariat**, representing Marcogaz with all relevant external official and industry partners and servicing the activities of Marcogaz internal bodies, consists of one full time executive (the Deputy General Secretary) with secretarial assistance. Part time support is given from the Eurogas General Secretary, acting as an Honorary General Secretary of Marcogaz.

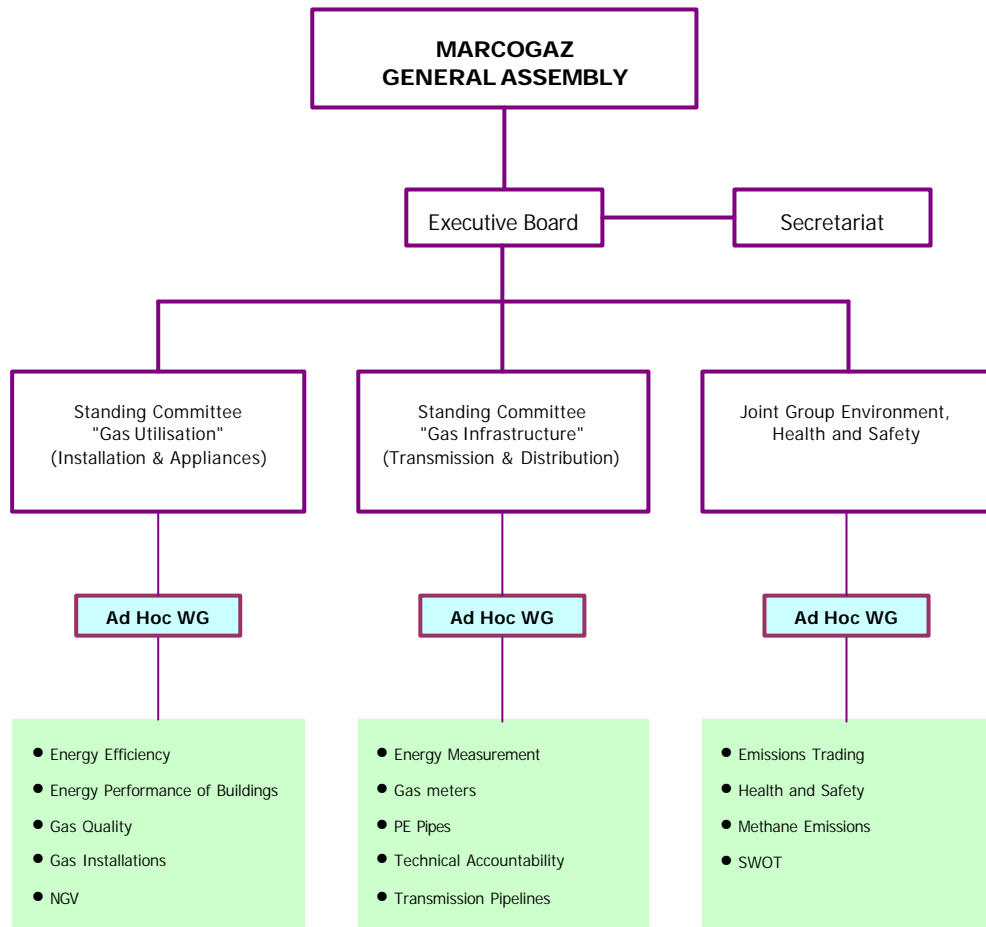
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Organisation Scheme - Status at 31 December 2002



Marcogaz Website

Marcogaz has its own homepage on the Internet at <http://www.marcogaz.org>, which offers general information on the Association and its organisation and activities as well as access to major reports and publications.

Decision has been taken to entirely renew Marcogaz website with separate sections for the Public and the Members.

The new website is expected on-line for Summer 2003.

General Assembly

The General Assembly held its annual Plenary Session in April 2002 in Basle (Switzerland) to review the activities of the Standing Committees

Executive Board

Attendances

Mr. Michel Duhon (Gaz de France) elected Marcogaz President in 2001 for a 2 years term was chairing the Executive Board in 2002, with Dr Klaus Homann as Vice-President.

At the end of 2002, Mr. Michel Verlinden, immediate past President left the Executive Board for retirement. The Executive board unanimously thanked him for his excellent contribution for many years. He was replaced by Gérard de Hemptinne (Fluxys). Mr. Lorenzo Serena represented the Italian Gas Association in 2002. Mr. Miroslav Burišin was present for the GAS S.r.o. Mr. Helmut Miksits (Wiengas) was nominated by ÖVGW to replace Mr. Pöltner.

Meetings

The Board had three meetings in February, April and October 2002, to review and direct the Standing Committees activities and to assess Marcogaz positions as well in regard of CEN ISO activities and of other points of involvement of Marcogaz including relations with manufacturers' and consumers' organisations. These are mentioned in appropriate sections of this report.

Relationship with other Organisations

Following the special workshop held in 2001 on the strategy to be followed by Marcogaz in the context of liberalisation of internal energy market in Europe, many contacts took place with Eurogas, GTE and EASEE-Gas in 2002, the goal for Marcogaz being to bring its expertise concerning any technical issue of common interest.

In this respect, Marcogaz decided in October 2002 to apply for EASEE-gas associate membership in order to be able to contribute to EASEE-gas activities.

Marcogaz was represented in the 1st EASEE-Gas General Meeting of Members on 4th December 2002. The 2 main issues where Marcogaz could contribute were harmonisation of units and gas quality

General Secretariat

In 2002 both the General Secretary and the Technical Adviser of Marcogaz left the Association for retirement.

Marcogaz Members expressed their great satisfaction with the work done by Mr. Peter Claus and Mr. Romain Vanderputten for more than 10 years.

Mr Daniel Hec, from Gaz de France, was appointed Deputy Secretary General for a 3 years term starting beginning of 2002 and Mr Peter Claus, Secretary General, was replaced by Mr Jean-Marie Devos in October 2002.

Executive Board Members at 31 December 2002

M. Duhon, President	GAZ DE FRANCE	France
K. Homann, Vice-President	RWE Gas	Germany
H. Miksits	WIENGAS	Austria
M. Verlinden	FLUXYS	Belgium
P.I. Hinstrup	DANISH GAS TECHNOLOGY CENTRE	Denmark
J. Buchta	GAS s.r.o.	Czech Republic
T. Jannemann	DVGW	Germany
P. Walshe	BORD GAIS EIREANN	Ireland
L. Serena	ATIG	Italy
F. Haak	GASTRANSPORT SERVICES	The Netherlands
T. Faae	STATOIL	Norway
J. Pons	SEDIGAS	Spain
A. Kilchmann	SVGW	Switzerland
A. McPhee	ADVANTICA TECHNOLOGIES Ltd	United Kingdom

Developments in 2002

The three main fields of Marcogaz activity are in the hands of the three following corresponding main groups:

- Standing Committee Gas Utilisation
- Standing Committee Gas Infrastructure
- Joint Group Environment, Health and Safety.

The latter is a Joint Group of Marcogaz and Eurogas.

Within their respective scopes, the three groups have the following tasks:

- to develop **industry policies and positions** regarding safety, integrity, rational use of energy and protection of the environment
- to monitor **new developments** at national, European and international levels and to **advise future requirements** with technical legislation, specifications and standards, quality issues and certification
- to promote the use of **modern methodologies and technologies** giving advantage to natural gas
- to monitor the **standardisation** activities conducted by CEN, ISO...
- to initiate **enquiries, studies** and to issue **industry statements** regarding any technical issue interesting its members
- to develop and support **gas industry contacts** and communications with external partners such as the EU Commission, the other Industry Associations, International Organisations like IGU or UN

Specific scopes and activities in 2002 are reported in the following sections.

Members of the Standing Committees, Joint Group Environment Health & Safety and Working Groups, at 31 December 2002, are listed in the Annex.

Standing Committee Gas Utilisation

Scope of activity: gas appliances, in-house installation, ducting systems and related equipment.

The overall objective is the promotion of good technical conditions for the market success of natural gas and of new energy efficient technologies.

Particular consideration is given to:

- safeguarding appropriate safety and reliability through a high "quality" CE marking and conformity assessment procedures specific to gas;
- the establishment of a technical regulatory environment favourable to gas appliances and without discrimination against natural gas in competition with other fossil fuels and electricity;
- promote standards for high performance and consumer attractive and innovative products;
- securing adequate and safe installation of gas equipment under changing market conditions;
- developing appliance strategy for sustainable development with natural gas in promoting the use of innovative high performance and environment friendly gas fired equipment;
- developing partnership with manufacturers trade associations, installers and consumers organisations;
- supporting R & D in the field concerned;
- support qualification/education schemes for gas installers.

The Standing Committee, chaired by Mr T. Jannemann (DVGW, D) had two meetings in 2002 in April and September.

The main issues of interest were:

Gas Appliances Directive

Marcogaz is participating in the GAD Working Group, in charge of monitoring the implementation and future modifications of this important EU regulation for the Gas Industry.

The main ongoing issues are:

- review of new approach: following the consultation in Spring 2002 (Marcogaz responded in May 2002), the Commission indicated that the initiative aims at reinforcing the New Approach. Competence of Notified Bodies, role of Accreditation Bodies, market surveillance, better knowledge of the CE marking by consumers are key points. A Communication to the Council and the Parliament is expected to be presented in 2003 on this issue.
- according to the Commission, market surveillance by Member States is satisfactory and should even be reduced in some cases. This is in contradiction with Marcogaz opinions expressed in the past.
- addition of co-generation units, heat pumps and fuel cells in the scope of the Directive is discussed.
- a collaborative report on the functioning of the GAD will be worked out by the Commission (DG Enterprise) . Marcogaz will be involved.

Energy Performance of Buildings (EPB)

During its 25th November 2002 meeting, the Energy Council has adopted the Proposal on Energy Performance of Buildings, which will set a framework for limitation of the anticipated energy increase in buildings.

The main following aspects were agreed:

- a common methodology for the development of integrated minimum energy performance standards will be adopted by Member States
- certification schemes will be established for new and existing buildings
- inspection of boilers and cooling systems by qualified personnel will be organized (every 4 years for gas boilers > 100 kW)
- a time period of 3 years for implementation is allowed (+3 years for Member States where qualified experts are not available)

The choice of relevant methods and procedures for implementation of EPB is given to Member States (subsidiarity). After being involved in the discussions prior to adoption, Marcogaz will follow the implementation in its Member countries.

Eco-design of End-Use Equipment

This new joint initiative from DG TREN and DG ENTERPRISE is aiming at creating a framework directive establishing eco-design requirements on energy-using equipment, the methodology required for determination of those requirements and conformity assessment procedures. There will be no direct applicability; it will apply only for products for which an implementing measure has been adopted (example: gas boilers).

This new proposal is replacing 2 other initiatives: the EEE (impact on the environment of electrical and electronic equipment) and the EER (energy efficiency for end use equipment).

The Commission tries to set up a clear and understandable regulatory framework for energy efficiency of products. For the Gas Industry, where the main products are already covered by existing directives (GAD, Boilers Efficiency), a strong implication will be necessary in the implementation phase.

Qualification of Gas Installers

Following previous work on this issue, the Standing Committee Gas Utilisation has decided to set up a new working group on "Installer Qualifications". During the first meeting, existing situations concerning current installers' structure, qualification and assessment, obligation to inspect gas installations inside customer premises were reviewed.

There is a lot of interest amongst organisations representing gas installers in Marcogaz work. In a first stage, GCI-UICP (Génie Climatique International – Union Internationale de la Couverture et de la Plomberie) had declined to participate in this study, but they have recently changed their mind and are now urging us to attend. CORGI, the Council for Registered Gas Installers in U.K. has also contacted the Secretariat for participation. There is here a good opportunity to create a win-win partnership

Gas Quality

WG Gas Quality has produced in November 2002 a detailed study concerning national situations regarding gas quality. A communication entitled "Gas Specification: the Gas Appliances Directive Limits" based on this study was presented during the Natural Gas Quality Conference organised by Advantica in November 2002.

It is now expected that common limits concerning Wobbe numbers can be established.

Following the Madrid Forum on 30th and 31st October 2002, EASEE-gas is now in charge of presenting gas specification common to the different actors of the market to the Commission. A Marcogaz representative is attending EASEE-gas Gas Quality Harmonisation WG.

NGV (Natural Gas for Vehicles)

In order to prepare measures to the Member States to encourage Natural Gas as an alternative fuel for road transportation (10% market share expected in 2020), the Commission has set up 2 groups where Marcogaz and Eurogas are represented.

The mission of the groups is to advise the Commission on technical developments and possible policies and measures for promoting natural gas as an alternative fuel. The following key issues have been identified:

- harmonisation of standards for filling stations and vehicle interface
- harmonisation of fuel quality standards
- captive markets versus mass market
- captive fleets categories
- dedicated mono-fuel/dual fuel engines

It is a real opportunity to develop NGV and therefore Marcogaz is actively participating in this action.

Standing Committee Gas Infrastructure

Scope of activity: gas pipelines networks, associated plant and related equipment.

Particular consideration is given to:

- promoting the understanding that gas supply is adequately regulated by existing safety and prevention laws throughout the Community thus meeting the aims of EU precautionary principle and the objectives of the EU internal energy market policy;
- ensuring that the EU Authorities take into account the industry's high safety record, achieved by a process of continuous improvements in application of the Pipeline Integrity Management System (PIMS);
- the inherent need for gas to be available in a safe and secure system of supply that will meet without interruption the requirements of customers as they arise;
- the availability required of components and equipment, which comply with the specific gas industry safety requirements to construct safe and reliable gas supply systems specified in the CEN/TC234 functional standards.

The Standing Committee, chaired by Mr C. Musgrave (Transco, UK) had two meetings in 2002, in March, and October. The major issues are the monitoring of EU Directives, and more specially a possible EU pipeline safety instrument, but also the review of technical issues to be examined in the movement towards liberalisation in Europe

Review of strategy and activities

In line with the Executive Board Workshop recommendations to reinforce gas industry self regulation, the Standing Committee reviewed its current field of activities and priorities, and identified areas where proactive actions are required to achieve Marcogaz objectives which consists in avoiding the development of new legislation without added value and, if any, the legal approaches should be a goal setting instrument recognising current good industry practices.

Possible Pipeline Instrument

This long standing issue for pipeline operators does not appear to be a priority at present and is not expected to be a feature in the 2003 part of the DG Environment Programme, currently very busy with a revision of the SEVESO II Directive following major accidents in Europe.

Marcogaz Secretariat continues to monitor any future developments, thanks to its good contacts with the Commission.

But it is also very important that the Gas industry continues to work on a voluntary basis on elaboration of self regulation concerning Pipeline Integrity Management Systems in order to be ready to demonstrate at any time its ability to operate gas systems in an efficient and safe manner.

Measuring Instrument Directive (MID)

Discussion made some progress during the last year, and the current text is now acceptable to us. The Gas Industry represented by Marcogaz and Facogaz, representing the meters manufacturers, are concerned about a possible additional delay for adoption due to next Parliament elections in 2004, if a Common position is not reached before Summer 2003.

Harmonisation of Units

The Madrid Forum, during its last meeting, invited EASEE-gas to take the lead on interoperability issues. EASEE-gas asked recently all parties involved in gas activities to comment on a GTE proposal concerning Harmonisation of Units.

A consultation of Marcogaz Board Members and SCGI Members was organised by the Secretariat. On the basis of numerous but rather differing remarks, a Marcogaz contribution was established and sent to EASEE-gas.

EASEE-gas is now trying to evaluate the implication and costs connected to the adoption of the common units for the Gas Industry.

Energy Measurement

Following a request from National Legal Metrology Bodies in some European countries to ask in the future for direct energy measurement (instead of volume measurement and conversion for high volumes customer, typically > 50 000 m³/h), the newly formed WG Energy Measurement has been gathering information on energy measurement practices and intentions in different countries.

Issues include:

- each Country's ability to implement OIML recommendations
- harmonization of approval procedures for CV measurement devices
- CV assignment methods, particularly control procedures for simulation methods, e.g. approval by National metrology authorities

This subject is of growing importance in a deregulated environment where many different players are involved.

Biogas

Article 1 of the amended proposal for a Directive amending the existing Directives concerning rules for the internal markets in electricity and natural gas reads:

2. [...] The rules established by this Directive for natural gas, including liquefied natural gas (LNG), shall also apply to biogas and gas from biomass or other types of gas insofar as such gases can technically and safely be injected into, and transported through, the natural gas system.

In order to avoid any future difficulties, Marcogaz is of the opinion that the gas supply infrastructure industry is to set the gas quality requirements and it is for Biogas processors to meet them. Therefore Marcogaz decided to work on a common specification for injection and technical operating rules on behalf of its members.

Standing Committee Gas Infrastructure members were asked to identify outcomes expected from the proposed WG, so that a clear scope of work and agenda can be set. Contributions from those countries most advanced in producing technical specifications in this field are encouraged.

Technical Accountability

A WG discussed technical rules for gas supply emergency planning, for example situations where a failure in the gas supply cannot be averted and commercial incentives to install additional infrastructure to improve system resilience are thought unlikely to affect the outcome.

The emerging positions of Eurogas and GTE towards Commission proposals for measures for safeguarding the security of supply of natural gas were noted. Including, GTE's offer to propose how extraordinary events will be defined and resolved. A physical imbalance of the gas supply system that cannot be addressed by operation of the gas market would be an extraordinary event with technical implications and therefore the opinion of Marcogaz needs to be established and recognised.

Marcogaz will contact GTE to envisage technical input on this issue.

Joint Group Environment, Health & Safety

The scope of activity covers the collection of industry data and preparation of views relating to environmental studies and policy proposals by the European Communities and other international bodies, which may affect gas industry interests and operations of gas supply and utilisation.

Particular attention is given to:

- promoting natural gas as the cleanest fossil fuel; as part of the solution to air pollution and to meeting the climate change objectives;
- ensuring that natural gas is not discriminated against in environmental policies;
- providing Eurogas and Marcogaz with policy, technical and practical operational advice on environmental issues.

Chaired by Mr L. Scopesi (Snam Rete Gas, I), the Joint Group met three times in 2002, in February, June and October.

The Joint Group has been active for almost a year, and represents a strong resource for Eurogas and Marcogaz on environmental related issues.

Position Paper on the Proposed Emissions Trading Directive

On the basis of the work done by an Emissions Trading sub-group chaired by Mr. Mortensen of DONG, a Position on the proposed Emissions Trading Directive was adopted by the June Joint Group meeting. After approval by the Marcogaz and Eurogas Boards, this Position was sent to the European Parliament's Rapporteur on the proposal, and the European Commission.

The position paper argues in favour of a prudent approach with a flexible framework, not least to take account of national differences in existing schemes. The position paper favours limiting the scope of the directive to CO₂ emissions in the first phase. The overall objective should be to maximise the learning opportunity for key sectors and point the way to future progress.

On the basis of this position paper, the European gas industry is well placed to comment on the continuing legislative process.

Environmental Management Systems

The second annual report on companies use of environmental management systems (EMS), a "snapshot" of approaches at end March 2002, was prepared for the Marcogaz and Eurogas Boards. The report confirms the increasing importance of Environmental Management Systems for the gas industry

Environmental Performance Indicators

The Report on Environmental Performance Indicators 2000 was sent to Marcogaz Board Members in April. The draft report for 2001 was completed by the end of December 2002.

Now that summary tables for the years 1998-2001 are available, the progress of the exercise will be evaluated with a view to introducing improvements where necessary and giving consideration to the eventual wider use of the data.

Strengths, Weaknesses, Opportunities and Threats (SWOT) Analysis of Environmental Issues

The working procedures were agreed to produce a SWOT analysis of activities throughout the gas chain. The areas to be studied are:

- Climate Change (storage and transmission)
- Ozone Depletion (storage and transmission)
- Acid Rain and Air Quality (transmission)
- Energy Efficiency Activities
- Noise (transmission)
- Water Quality (transmission and storage)
- Soil Contamination (transmission and storage)
- Indoor Air quality (related to gas utilisation)
- Urban Air Quality (related to gas utilisation)
- Waste Disposal (transmission and distribution)

To develop the first input on those topics and agree their relative importance in the gas chain, it was agreed to set up a working group under the chairmanship of Mr. D. Gullentops of Figaz.

Methane Emissions

In 2002, the Joint Group agreed a clear programme for working on methods for evaluating methane emissions. A methane emissions sub-group chaired by Mr. Riva of SNAM Rete Gas presented a work programme in June, which the Joint Group approved. A literature review of methodologies already available for estimating methane emissions from gas industry was completed by Autumn 2002.

The remaining programme is:

- | | |
|---|---------------|
| - Draft common reference method | February 2003 |
| - Data collection on methane emissions for 2001-2002 using the draft reference method/comparisons with company data | June 2003 |
| - Finalize common reference method | December 2003 |

The sub-group has a challenging task in developing a reference method in this time-frame.

Health and Safety Issues

A workshop early in 2002 recommended to set up a sub-group on Health and Safety Issues. Mr. Veenstra of Gas Transport (NL) chairs the Health and Safety issues group.

The sub-group has completed a first overview of the types of Health and Safety Issues and developed a risk-ranking as a basis for further work. Initially, the sub-group has decided to focus on direct causes of accidents.

Other Activities

The Joint Group prepared a new gas industry brochure, "Natural Gas: the Natural Choice for Efficient Energy". This brochure highlights how not only gas technologies but also company policies contribute to achieving energy efficiency objectives, thus contributing to climate change goals and strategies to minimize pollution.

Regarding the general profile of the European gas industry on environment and sustainability topics, a pamphlet: "How Natural Gas and Natural Gas Companies contribute to sustainable Development" was issued in August to mark the Johannesburg Summit. Members of the Joint Group assisted the Secretariat in the preparation of this.

Work in relation to European Committee for Standardization (CEN) and the International Standardization Organisation (ISO)

European Standardization work is of the foremost interest for Marcogaz, which has a liaison status with CEN and many technical Committees involved in harmonization of gas systems and products (CEN/TC 234 "Gas Infrastructure", CEN/TC236 "Non industrial manually operated shut-off valves for gas and particular combinations valves-other products", CEN/TC237 "Gas Meters", CEN/TC238 "Test Gases", CEN/TC109 "Central Heating Boilers", CEN/TC181 "LPG", ISO/TC193 "Natural Gas").

Positions of the European Gas Industry relative to CEN organisations and activities are co-ordinated and expressed by Marcogaz.

Sector Forum Gas

Marcogaz was involved in the creation of the Sector forum Gas with 2 Sub-groups "Infrastructure" and "Utilisation" which, by being a consultation forum between all parties interested in standardization relative to gas, can issue recommendations for TCs.

Marcogaz General Secretariat was in 2002 an active participant in the activities of SFG and relative working groups.

CEN/TC 234 "Infrastructure"

Marcogaz maintains a close relationship with this Standardization Committee in charge of setting up the necessary functional standards used by gas operators.

Following discussions with DG Enterprise, Marcogaz Secretariat took an active role in clarifying the status of the future standard regarding industrial installations. This action led to the decision to harmonize this standard to PED by CEN/TC234 Plenary.

Marcogaz also strongly supports the development of EQAS (European Quality Assurance System) documents for transmission and distribution. The Marcogaz Guide on Performance Indicators, which should be used to check the effectiveness of transmission operators PIMS (Pipeline Integrity Management System) will be part of the EQAS document.

Mandate M324

Marcogaz and EHI assisted CEN/CMC in finalising the mandate to CEN and CENELEC for the elaboration and adoption of measurement standards for household application. The addition of 2 tapping cycle for volume of 325l and 410l per day will allow gas-fired boilers not to be discriminated comparing to other boilers using different energies.

Membership at 31 December 2002 of Standing Committees, Joint Group Environment, Health & Safety and Working Groups

SC Gas Utilisation

T. Jannemann, Chairman (DVGW, D) - M. Borsani (SVGW, CH) - J. Buchta (GAS s.r.o., CZ) - P. Chenot (Gaz de France, F) - K. De Wit (KVBG, B) - F. Dupin (DVGW, D) - F. Ferrer (Sedigas, E) - J. Schweitzer (Danish Gas Technology Centre, DK) - L. Serena (ATIG, I) - C. Soerig (Danmarks Gasmateriel Provning, DK) - M. Thompson (British Gas, GB) - C.D. Vermeulen (Gastransport Services, NL) - P.F. Walshe (Bord Gais Eireann, IRL) - M. Weichselberger (Wiengas, A)

WG Energy Efficiency

J. Abasolo (Gas Natural SDG, E) - R. Blanco (Sedigas, E) - M. Borsani (SVGW, CH) - R. Dann (Advantica Technologies Ltd, GB) - F. Dupin (DVGW, D) - F. Ferrer (Sedigas, E) - I. Leiva (Repsol YPF, E) - M. Schäufele (BGW) - J. Schweitzer (Danish Gas Technology Centre, DK) - M. Van Rij (Gastec, NL) - P. F. Walshe (Bord Gais Eireann, IRL) - T. Williams (Advantica Technologies Ltd, GB)

WG Energy Performance of Buildings

J. de Francisco (Repsol YPF, E) - K. De Wit (KVBG, B) - F. Dupin (DVGW, D) - P.G. Hennig (Gaz de France, F) - F. Jonon (Gaz de France, F) - I. Leiva (Repsol YPF, E) - J. Schweitzer (Danish Gas Technology Centre, DK) - J. Steiglechner (TÜV, D)

WG Gas Installations

M. Borsani (SVGW, CH) - J. Buchta (GAS s.r.o., CZ) - M. Burisin (Prazska Plynarenska, CZ) - A. Defedele (Italgas, I) - B. Delcour (Gaz de France, F) - J.L. Esquivias (Gas Natural SDG, E) - A. Krijgsman (Gastransport Services, NL) - J. Sander (DVGW, D) - C. Soerig (Danmarks Gasmateriel Provning, DK) - B. Thomas (KVBG, B) - M. Thompson (British Gas, GB) - P.F. Walshe (Bord Gais Eireann, IRL) - M. Weichselberger (Wiengas GmbH, A)

WG Gas Quality

M. Borsani (SVGW, CH) - Fr. Cagnon (Gaz de France, F) - K. De Wit (Technigas, B) - D. Lander (Advantica Technologies Ltd, GB) - H.B. Levinsky (Gasunie Research, NL) - J. Sahun (Gas Natural SDG, E) - C. Soerig (Danmarks Gasmateriel Provning, DK) - B. Viglietti (SNAM Rete Gas, I) - H. Wackertapp (Ruhrgas, D)

WG NGV

E. Buthker (Gastec, NL) - G. Chaudron (Electrabel, B) - D. Crochetet (Gaz de France, F) - F. Gröschl (DVGW, D) - A. Julia Sirvent (Gas Natural SDG, E) - A. Klapdor (RWE Gas, D) - F. Mariani (SNAM Rete Gas, I) - W. Neiryneck (Electrabel, B) - M. Seifert (SVGW, CH) - J. Seisler (ENGVA, NL) - G. Thomas (Advantica Technologies Ltd, GB) - H. Wackertapp (Ruhrgas, D) - P.F. Walshe (Bord Gais Eireann, IRL)

SC Gas Infrastructure

C. Musgrave, Chairman (Transco, GB) – J-M. Baillard (EDF-GDF Service, F) - S. Bees (Advantica Technologies Ltd, GB) - R. Bräuer (SGWA, CH) - M. Burisin (Prazska Plynarenska, CZ).- S.U. Dalsager (Dong Energiservice, DK) - D. Deberdt (Fluxys, B) - F. Dupin (DVGW, D) - J. Fentz (Naturgas MIDT/NORD, DK) - R.C. Ford (Advantica Technologies Ltd, GB) - M. Fuchs (OMV Erdgas, A) - S. Ghia (Italgas, I) - Gutierrez Pascual (Enagas, E) - K. Haring (Tigas, A) - R.D. Heinrich (NETG, METG, SETG, D) - Kl. Homann (RWE Gas, D) - J-Cl. Hourriez (Gaz de France, F) - D. Jagodzinski (DVGW, D) - A. Klees (DVGW, D) - M. Kornalijnslijper (Gastransport Services, NL) - G. Linke (Ruhrgas, D) - V. Musazzi (SNAM Rete Gas, I) - A. Oijord (Statoil, N) - M. Sola Sugranes (Gas Natural, E) - M. Verlinden (Fluxys, B) - P.F. Walshe (Bord Gais Eireann, IRL)

WG Energy Measurement

S. Ambroz (CZ) – C. Andersen (DONG, DK) - A. Benito (Enagas, E) - V.M. Cannizzo (SNAM Rete Gas, I) - K. Ciok (Dong Energiservice, DK) - D. Lander(Transco, GB) - J. Dehaeseleer (ARGB, B) - G-H. Joffre (Gaz de France, F) - M. Marin (Fluxys, B) - C. Musgrave (Transco, GB) - M. Tedeschi (SNAM Rete Gas, I) - C. Treal-Jouan (Gaz de France, F) - M. Uhrig (Ruhrgas, D) - B. Viglietti (SNAM Rete Gas, I)

WG Gas Meters

V.M. Cannizzo (SNAM Rete Gas, I) - J. Dehaeseleer (Electrabel, B) - S. Ghia (Italgas,I) - P. Grosshennig (Bayerngas, D) - K. Haring (Tigas, A) - M. Joosten (Gastec, NL) - C. Le Flohic (Gaz de France, F) - L. Maina (Italgas, I) - M. Marin (Fluxys, B) – A. Oijord (Statoil, N) - B. B. Petersen (Hovedstadsregionens Naturgas, DK) - J. Senave (Facogaz, B) - J. Sibley (Advantica Technologies Ltd, GB) - M. Uhrig (Ruhrgas, D) - P.M.A. van der Kam (Gastransport Services, NL) - P.F. Walshe (Bord Gais Eireann, IRL)

WG PE Pipes

J. Canet (Gas Natural, E) – M. Burisin (Prazska Plynarenska, CZ).- R. Denner (EVN, D) - M. Durandeanu (Gaz de France, F) - D. Grahl (RWE Gas, D) - T. Hill (Advantica Technologies Ltd, GB) - P. Huet (Gaz de France, F) - T. Neumann (RWE Gas, D) - M. Vacchina (Italgas, I) - L. Van Hoeymissen (Electrabel, B) - H. Vinck (ARGB, B).- M. Wolters (Gastec, NL)

WG Technical Accountability

F.A. de JONG (Gastransport Services, NL) - R.C. Ford (Advantica Technologies Ltd, GB) – M. Fuchs (OMV, A) - V. Gouriotti (DEPA, GR) – J. Gutierrez Pascual (Enagas, E) – R.D. Heinrich (NETG, METG, SETG, D) - K. Homann (RWE Gas, D) – J-C. Hourriez (Gaz de France, F) – V. Musazzi (SNAM Rete Gas, I) - J. Vorgang (Ruhrgas, D) - P.F. Walshe (Bord Gais Eireann, IRL)

WG Transmission Pipelines

R. Bräuer (SGWA, CH) - M. Brown (Advantica Technologies Ltd, GB) - M. Burisin (Praska Plynarenska, CZ).- A. Cappanera (SNAM Rete Gas, I) - B. Crabs (Fluxys, B) - S.U. Dalsager (Dong Energiservice, DK) - D. Deberdt (Fluxys, B) - M. Fuchs (OMV, A) - J. Gutierrez Pascual (Enagas, E) - K. Haring (Tigas, A)) - R.D. Heinrich (NETG, METG, SETG, D) - D. Jagodzinski (DVGW, D) - M. Kornalijnslijper (Gastransport Services, NL) - F. Laurens (Gaz de France, F) - G. Linke (Ruhrgas, D) - V. Musazzi (SNAM Rete Gas, I) - A. Oijord (Statoil, N) - P.F. Walshe (Bord Gais Eireann, IRL) - J. Zarraga (Enagas, E)

Joint Group Environment, Health and Safety

L. Scopesi, Chairman (SNAM Rete Gas, I) - C. Beckvid (Svenska Gasföreningen, S) - M. Brain (Transco, GB) - H. Casterman (Gaz de France, F) - F. Dupin (DVGW, D) - J. Fernandez Docio (Gas Natural, E) - L. Gorospe (Gas Natural/Enagas, E) - D. Gullentops (Figas, B) - H. Heidinger (OMV, A) - J.K. Jensen (Danish Gas Technology Centre, DK) - P. Karinen (Gasum, FL) - A. Le Peltier-Marc (Gaz de France, F) - M.A. Loudon (Eurogas/Marcogaz Secretariat, B) - O. Matile (ASIG, CH) - M. Mondino (Italgas, I) - J. H. Mortensen (Dong Energiservice, DK) - A. Riva (SNAM Rete Gas, I) - M. Rottner (Transgas, CZ).- M. Schäufele (BGW, D) - E. Tastevin (Gaz de France, F).- T. Veenstra (Gastransport Services, NL) - J. Vorgang (Ruhrgas, D) - P.F. Walshe (Bord Gais Eireann, IRL)

WG Emissions Trading

J.L. De Schutter (Fluxys, B) - C. Faure Fedigan (Gaz de France, F).- L. Gorospe (Gas Natural/Enagas, E) - J.K. Jensen (Danish Gas Technology Centre, DK) - P. Karinen (Gasum, FL) - T. Kessler (Lattice Group, GB) - J. H. Mortensen (Dong Energiservice, DK) - M. Schäufele (BGW, D) - T. Veenstra (Gastransport Services, NL) - G. Verkest (Distrigas, B)

WG Health and Safety

M. Brain (Transco, GB) - D. Deberdt (Fluxys, B) - L. Demoulin (Gaz de France, F) - D. Gullentops (Figas, B) - M. Mondino (Italgas, I) - T. Paschmanns (Ruhrgas, D) - A. Riva (SNAM Rete Gas, I) - T. Veenstra (Gastransport Services, NL)

WG Methane Emissions

M. Brain (Transco, GB) – J-. Fernandez Docio (Gas Natural, E) - M. Girard (Italgas, I) - D. Gullentops (Figas, B) - A-Y. Marchal (Gaz de France, F) - M. Mondino (Italgas, I) - S. Procee (Gastransport Services, NL) - A. Riva (SNAM Rete Gas, I) - T. Veenstra (Gastransport Services, NL) - J. Vorgang (Ruhrgas, D).

WG SWOT

C. Beckvid (Svenska Gasföreningen, S) - M. Brain (Transco, UK) - H. Casterman (Gaz de France, F) - J. Fernandez Docio (Gas Natural, E) - D. Gullentops (Figas, B) - H. Heidinger (OMV, A) - J.K. Jensen (Danish Gas Technology Centre, DK) - M. Mondino (Italgas, I) – A. Riva (Snam Rete Gas, I) - T. Veenstra (Gastransport Services, NL) -J. Vorgang (Ruhrgas, D)