

marco gaz

Annual Report
2000



MARCOGAZ



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Executive Summary

This annual report details the objectives, membership organisation and programmes of Marcogaz as well as the activities and achievements in year 2000.

Marcogaz is the European window on technical legislation, standardisation and certification for its member organisations. It promotes an appropriate technical regulatory environment for gas supply and gas utilisation including specific EC Directives to form the basis for standardisation and related certification, and supporting free movement of CE mark bearing products complying with gas specific requirements for safe and reliable gas supply and utilisation. Those aims are achieved by means of consultation and co-operation with EC bodies, the European Standards Organisation (CEN), the International Standards Organisation (ISO), related industries' organisations, manufacturers of equipment and appliances and consumers' organisations.

The main issues and activities are summarised as follows:

■ Gas utilisation

EC Directive on Gas Appliances, GAD (90/396/EC)

- Position on extension of scope
- Recommendations on market surveillance requirements

Energy Efficiency Labelling Directive (92/75/EC)

- Not applicable for boilers

Boiler Efficiency Directive (92/42/EC)

- Review of the STAR rating system
- Promotion of "Boilsim" software and GLP Handbook

Qualification of Installers

- Investigation of national practices

Natural gas fuelled vehicles (NGV)

- Close liaison with ENGVA, and involvement in EU Auto Oil II Programme

■ Gas Supply

Possible EU Pipeline Safety Instrument (PSI)

- Follow-up of EU initiative

- Decision to make benchmarking study of gas industry practices and technical capability in operating safe pipeline systems, to serve as guidance for a gas industry Safety Management System

Standards under Construction Products Directive

- Agreement on scope of draft mandate for CEN work under CPD

Pressure Equipment Directive, PED (97/23/EC)

- Guidance sheets drafted by CEN Sector Forum Gas

Measuring Instruments Directive (MID)

- Revision of annex on gas meters for industry proposed amendments
- Promotion of standards work under CEN

PE pipes

- Assessment of draft EN standards for PE pipes, fittings and valves for use in natural gas systems, with the objective of agreeing common additional requirements

Underground Storage

- Completion of a benchmark study on existing gas storage practices and decision to set up a database of major accidents involving underground storage activities

■ Environment

Revision of Large Combustion Plant Directive LCP (88/609/EEC)

- Revised position paper on proposed emission limit values against unduly strict ELVs risking to harm share of natural gas in primary energy supply

Methane issues

- Preparation of data and technical arguments regarding possible reduction of methane emissions from industry operations, for discussion with European Commission.

Best Available Technology (BAT)

- In the framework of Seville Process of determining guidelines for Large Combustion Plant, Marcogaz/Eurogas prepare material regarding BAT for gas engines and turbines.

Environmental Performance

Indicators

- Completion of report on environmental performance indicators with recommendations for future data collection approaches, user's

guide and data collection form.

Presentation at WGC 2000 Nice

- Preparation of paper on the role of the gas industry in reducing greenhouse gas emissions by co-operation between countries, delivered at World Gas Congress 2000 Nice by Peter I. Hinstrup of the Marcogaz Board.

■ Work in relation to European Standards Committee, CEN

European standards work is a foremost Marcogaz members' interest and activity, closely monitored and promoted by Marcogaz.

CEN Sector Forum Gas

Under CEN/SFG Marcogaz co-ordinates shared understanding among all stakeholders and promotes best practice standards

- Development of new CEN/SFG structure for cost-effective flexible industry driven consultation towards accelerated standards preparation
- CEN/SFG Working Groups: three WGs on "horizontal" issues are covered by Marcogaz representatives – "on environmental aspects in appliance standards", on "construction products" and on "pressure equipment"

CEN/TC 234 "Gas Supply

Marcogaz developed a new work programme with key issues towards compatibility between functional standards and products standards, and towards reducing differentials between national legislation and current CEN/TC 234 standards

■ Joint meetings with manufacturers

Marcogaz initiated joint meetings with European associations of equipment and appliances Manufacturers towards common understanding of shared interest issues regarding EC Directives and CEN developments.



Introduction

Marcogaz the "Technical Association of the European Natural Gas Industry" is the representative body of the European Natural Gas Industry on all technical issues. It aims to monitor and take influence when needed on European technical regulation, standardisation and certification with respect to integrity and safety of equipment, and the rational use of energy. Another area of activity of great importance to Marcogaz is the protection of man and the environment, in the fields of natural gas supply and utilisation.

Objectives

Within the stated scope, the objectives of Marcogaz are:

- to be the European window on technical legislation, standardisation and certification for its member organisations;
- to monitor, liaise and influence developments at the European level on behalf of the natural gas supply industry;
- to promote the competitiveness of natural gas through the establishment of an appropriate technical regulatory environment for gas supply and gas applications;
- to support the aims of the Single Market for the free movement of products bearing the CE mark, and complying with the gas specific requirements for safe and reliable gas supply;
- to promote specific sectoral and goal setting EC Directives, to form the basis for standardisation and related certification.

The latter aims are achieved 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 the many 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 people, knowledge and finance required. Marcogaz co-ordinates with Eurogas,

the European Union of the Natural Gas Industry, as well as with the Gas Transmission Europe (GTE) Group and GERG, the European Gas Research Group, through a shared Secretariat and selected joint programmes. Marcogaz also co-operates with other major gas industry organisations such as ENGVA (European Natural Gas Vehicle Association), the International Gas Union (IGU) and Intergas Marketing. 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, including those mandated by EC regulation and programmes. For each country concerned, one membership embodies

At the conclusion of 2000, the membership extends over twelve countries:

COUNTRY REPRESENTED BY

Austria	Österreichische Vereinigung für das Gas- und Wasserfach (ÖVGW)
Belgium	Association Royale des Gaziers Belges (A.R.G.B./K.V.B.G.)
Denmark	Danish Gas Technology Centre (DGC)
France	Gaz de France (GDF)
Germany	Deutsche Vereinigung des Gas- und Wasserfaches e.V. (DVGW) in combination with Bundesverband der Deutschen Gas- und Wasserwirtschaft (BGW)
Ireland	Bord Gais Eireann (BGE)
Italy	Associazione Nazionale Industriali Gas (ANIGAS)
Netherlands	Koninklijke Vereniging van Gasfabrikanten in Nederland (KVGN)
Norway	Statoil A/S
Spain	Asociacion Tecnica Espanola de la Industria del Gas (SEDI-GAS)
Switzerland	Schweizerischer Verein des Gas- und Wasserfaches (SVGW)
United Kingdom	Lattice Group plc, and Centrica plc



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

Organisation

Marcogaz has no formal incorporation status, it is a “de facto” association without official statutes. Its structure, organisation and operational rules are described in its Internal Management Structure document (ref. S/MAR/1607/92).

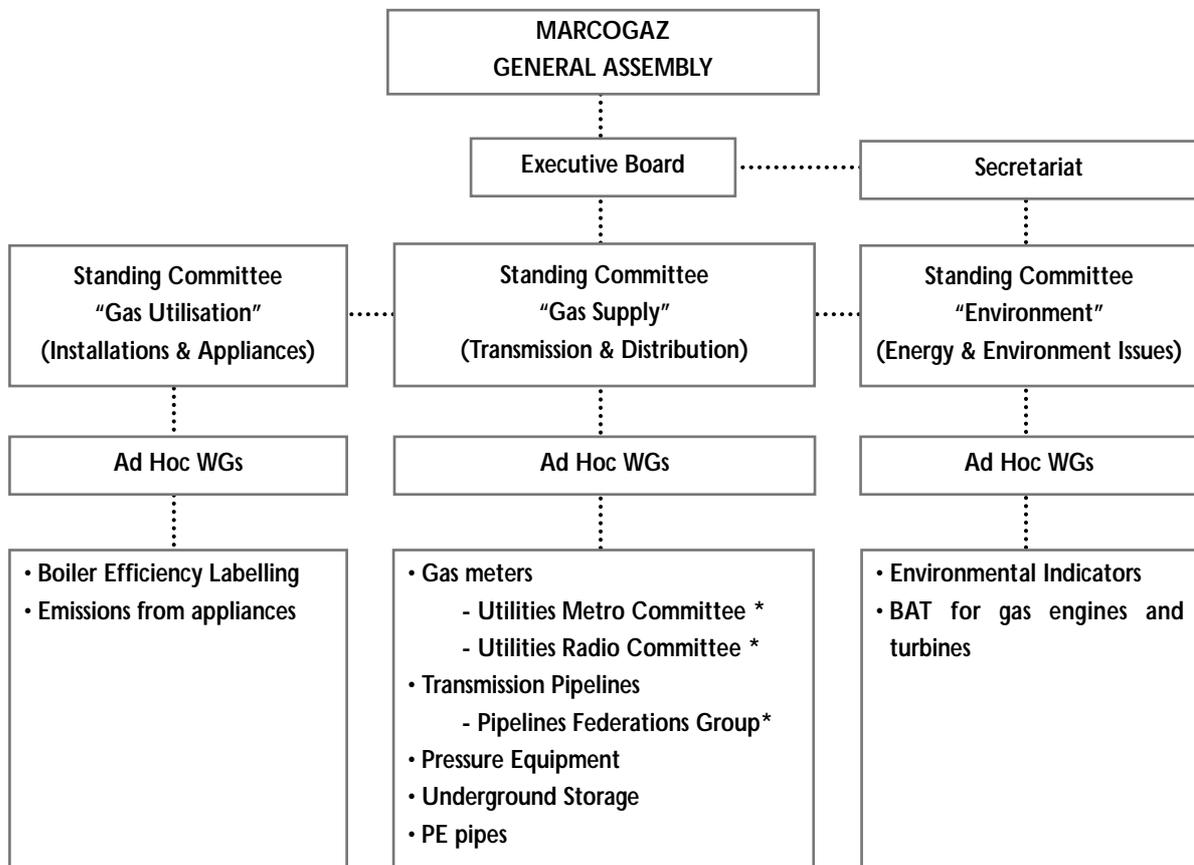
The **General Assembly** consists of national delegations representing the various gas industry companies and bodies sharing in the membership. It meets once yearly to agree policies, adopt budgets, and direct the **Executive Board** whose members represent the respective countries in the Marcogaz membership.

The Board, meeting several times a year, defines and controls strategies and gives guidance to three Standing Committees of industry experts and executives in charge of the action. Ad hoc **Working Groups** are set up in the Committees when required to deal with specific subjects.

The **Secretariat**, servicing the activities of the Marcogaz bodies and co-ordinat-

ing with all relevant third official, industry and other sectors organisations, consists of one full-time executive with secretarial assistance and with support from the Eurogas Secretariat taking charge on a honorary basis of the Standing Committee Environment and the General Secretary’s function.

Organisation Scheme - Status at 31 March 2001



* Multi-sectoral platform co-ordinated by Marcogaz



Marcogaz Information

A "flash" bulletin is being introduced for rapid information of members on latest developments.

A topical newsletter is issued by the Secretariat when developments warrant, giving highlights of Marcogaz activities and news on developments with EC Directives, CEN, other European bodies and any relevant issues.

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.

Executive Board

Mr. Michel Verlinden (DISTRIGAZ, Belgium) elected President in April 1999 remained in the Chair over the year with his term normally lasting

until the Plenary session in 2001. There were no changes in the Board during the year.

The Executive Board memberships at the close of the year is shown in the table.

The Board had three meetings in 2000, in January, April and October, 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 the relevant sections of this report.

General Assembly

The General Assembly held its annual meeting on 12 April 2000 in Stavanger (Norway) to review the activities of the Standing Committees and the proposed re-organisation of CEN Sector Forum Gas.

The appointments of the Standing Committees Chairmen were confirmed:

- Th. Jannemann (DVGW) for Standing Committee Gas Utilisation
- D. Pelloux-Prayer (Gaz de France) for Standing Committee Gas Supply
- A. Riva (SNAM) for Standing Committee Environment

The dues sharing system was changed to allow for reduced fees to be charged to the Austrian and Swiss member groups.

The hosting member, Statoil, gave a presentation on the Norwegian gas production and exports industry.

Developments in 2000

The bulk of Marcogaz activities consists of the work done in the three Standing Committees, supported by the Secretariat, guided by the Executive Board and endorsed by the General Assembly.

Standing Committees

The three main fields of Marcogaz activity are in the hands of three corresponding Standing Committees, respectively Gas Utilisation, Gas Supply, Environment. Within their respective scopes, the three groups have as main shared tasks in their areas of concern:

- to develop Marcogaz policy and positions towards EC (draft) Directives and policies regarding gas and public safety, rational use of energy and the protection of the environment;
- to monitor new developments at national and international level, and to advise on future requirements with technical legislation, standards, quality approval and certification for

Executive Board Members at 31 December 2000

M. Verlinden, President	S.A. DISTRIGAZ	Belgium
M. Duhen, Vice-President	GAZ DE FRANCE	France
R. Pöltner	WIENGAS	Austria
P.I. Hinstrup	DANISH GAS TECHNOLOGY CENTRE	Denmark
Th. Jannemann	DVGW	Germany
P. Walshe	BORD GAIS EIREANN	Republic of Ireland
M. Zeppegno	ITALGAS	Italy
C.J. Schroot	REMU	The Netherlands
T. Faae	STATOIL	Norway
J. Pons	SEDIGAS	Spain
A. Kilchmann	SGWA	Switzerland
R. Feltham (*)	BG TECHNOLOGY Ltd	United Kingdom

(*) replaced by A. McPhee (Advantica Technologies Ltd - UK) from 1st January 2001.



products, works and services;

- to monitor the activities in CEN, ISO, WELMEC, GAD-AC, BED-AC and EOTC, and to prepare actions as and when needed;
- to initiate, when appropriate, relevant supporting enquiries and studies;
- to initiate and support gas industry contacts and communications with external bodies, such as the European Commission, European manufacturers' trade associations, consumers' organisations, and IGU.

Specific scopes and activities in 2000 are reported in the following sections.

Members of the Standing Committees and Working Groups, at 31 March 2001, 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.

Particular consideration is given to:

- safeguarding appropriate safety and reliability through a high "quality" CE mark 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 environmentally 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.Th. Jannemann (DVGW, D) had three meetings in 2000 in March, June and November.

EC Directive on Gas Appliances, GAD (90/396/EC)

The European Commission has taken up its intention to extend the scope of GAD to cover other products as well, having a gas safety risk. At this stage, the Commission is collecting pertinent national legislation in order to establish a list of products for which legal barriers to trade exist across the EU, such as industrial applications and equipment for use in gas installations, currently excluded from GAD. The Standing Committee undertook to review the current list of products for discussion within the GAD Advisory Committee, GADAC. A position paper is under preparation. On market surveillance, Marcogaz submitted a letter of concern to the Commission on the absence of market surveillance systems in most EU Member States. The Commission declined to take concrete initiative in this area on the argument that this is a responsibility of national authorities and the Commission can intervene only if problems arise in the pre-market control covered by GAD. The only way to establish adequate market surveillance for gas appliances in Member States would be to persuade national authorities of this necessity.

Nonetheless, Marcogaz will continue to address the Commission for the creation of an information system among notified bodies and authorities.

On fuel cells, a working group is to be set up in the Standing Committee in co-operation with COGEN, to develop a European strategy for the promotion of gas technology e.g. in standardisation.

Energy Efficiency Labelling Directive (92/75/EC)

At its public hearing held in December 2000 the Commission announced its intention to start negotiations with national authorities and industry regarding the format and contents of an energy consumption label (A to G scale) for gas ovens, gas water heaters and boilers. For gas ovens the label will be identical to electrical ovens, with the exception of the consumption of energy, which for gas ovens will be expressed in MJ. An EC mandate for setting the supporting standard is being prepared. For water heaters the label for electrical appliances is based on stand-by losses, while for gas appliances, a tapping programme will be required; an EC mandate is being considered.

For central heating boilers the Commission is requesting national authorities under which Directive the energy consumption label should be established, either the Energy Labelling Directive 92/75 or the Boiler Efficiency Directive 92/42.

For such purpose, Marcogaz favours the latter Directive which in practice causes problems with its "star rating" system.

Boiler Efficiency Directive, BED (92/42/EC)

Marcogaz continued to promote the use of the "Handbook of Good Laboratory Practice on Efficiency Measurement of Boilers" with the associated "Boilsim" software for calculation of boiler efficiency at differ-



ent loads and taking into account the building heat demand and the heating system characteristics. The GLP Handbook and the network of testing laboratories LABNET will be essential in achieving reduction of efficiency measurement tolerances or variations between notified bodies. In cooperation with the Commission DG TREN a workshop on this matter is planned for early 2001.

Draft Directive on Energy Performance of Buildings

Marcogaz attended the public hearing held by the Commission on energy performance of buildings (December 2000) with the purpose of collecting experience from Member States and the industry on integrated energy performance and measurement standards in the run up to the preparation of a Directive on energy performance of buildings. A specific efficiency measure concerns the improvement of heating installations, periodical inspection of boilers and replacement of old boilers. The Commission will not now seek to harmonise national building certification schemes, but to ensure that Member States use a methodology for the assessment of building energy performance addressing the parameters determined in the proposed EU instrument. Harmonisation may be required in a later stage.

In this area the earlier mentioned "Boilsim" efficiency assessment method promoted by Marcogaz will be an excellent tool. The Standing Committee will prepare a position paper on the various questions from the Commission on the subject.

Qualification of Installers

By way of an internal questionnaire investigation the Standing Committee reviewed the status in member countries of qualification and certification criteria and practices for installers. The conclusion was that all member countries have a system in place for

installers' qualification/certification. Although approaches differ, ranging from legal frameworks to voluntary schemes, they all have the objective of improving and auditing the installer's technical capability to make safe gas installations. Reference to national standards and to EN 1795 is common practice.

Considering the variety in the national approaches it is impractical to harmonise these practices across the EU. However, a system for mutual recognition of certificates might be possible, as exists between the UK and the Republic of Ireland.

NGV – Natural gas-fuelled vehicles

In this field Marcogaz keeps up strong liaison with ENGVA, the European Natural Gas Vehicle Association to provide assistance in questions related to natural gas fuel specification under EU vehicle legislation. Furthermore, Marcogaz was directly involved in the Auto Oil II programme WG III "fuel technology" for alternative fuels. Auto Oil II has the objective to study the various options for conventional and alternative fuels and to provide policy makers with an objective assessment of the most cost-effective package of measures which are necessary to reduce emissions from road transport to a level consistent with EU environmental policy for new air quality standards for the year 2005 and beyond.

Standing Committee Gas Supply

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 EC precautionary principle and the objec-

tives of the EC internal energy market policy;

- ensuring that the EC 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's safety requirements to construct safe and reliable gas supply systems specified in the CEN/TC234 functional standards.

The Standing Committee, chaired by Mr. D. Pelloux-Prayer (Gaz de France, F) had two meetings in 2000, in March and in October. The major issues continued to be the monitoring of EC Directives, and a possible EU pipeline safety instrument, the restructuring of Sector Forum Gas in CEN and the development of future programmes.

Possible EU Pipeline Safety Instrument (PSI)

Following the European Commission 1999 Benchmark Study on existing national legislation regulating pipelines, Marcogaz and the Pipeline Federations Group stated their concern to the Director General of Environment in particular on the absence of a chapter reflecting the industry views in the Benchmark report. In the industry's view the study was wrongly developed on the lines of the (Seveso II) COMAH Directive on fixed installations calling for different safety performance criteria than pipelines. Neither had industry views been taken into consideration for the necessary corrections to



be made to the Joint Research Centre ISPRA report on pipeline incidents and accidents which gives a misleading picture of natural gas pipeline safety in Europe.

In a joint meeting in May 2000 of the Presidents of Eurogas and of Marcogaz with the EU Environment Commissioner, Mrs M. Wallström, the latter explained then that the proposed PSI was consistent with the "precautionary principle" on which Community environmental law is based i.e. to take precautionary measures with respect to potential accidents rather than to react only after the occurrence of an accident. As a point in case, a recent mine accident in Romania had caused heavy river pollution while mines were still excluded from the scope of the COMAH Directive. The PSI Benchmark Study was meant to identify gaps in Member States legislation that should be remedied under the PSI without introducing new bureaucracy and costs. The drafting of a PSI proposal had been postponed to 2001 because of other priorities, including the mining problem.

Pending further developments with the PSI proposal, the Standing Committee decided to make a benchmarking study of gas industry practices and technical capability in operating safe and reliable pipeline systems. The results of the study would serve as guidance in drafting a gas industry safety management system (SMS) including technical safety, accident prevention policy, emergency planning and management, together with agreed performance indicators for the assessment of SMS effectiveness as a further development of the Marcogaz PIMS pipeline integrity management system.

Issues under EC Directives

• *Gas Internal Market Directive*

Interoperability of networks was one of the issues raised by the European Commission and European Gas Regulatory Forum in the context of Gas Directive implementation, and calling for best practice if not harmonised approaches. Eurogas in May 2000 presented a first report on the issue to the Regulators Forum, and the Gas Transmission Group Europe GTE has taken over since then. The Standing Committee will co-operate with GTE on all matters of technical interest, in particular best practice and standards.

• *Construction Products Directive (CPD) (See also CEN/SFG WG8 report)*

The scope of the draft mandate M131 for standards work in CEN under CPD was agreed to cover the gas components, pipes and fittings installed inside the building. In a second step it will be assessed whether outdoor equipment downstream the last point of delivery of the distribution grid should fall under the present mandate.

• *Pressure Equipment Directive (PED) (See also CEN/SFG WG6 report)*

The first guidance sheet drafted by CEN Sector Forum Gas clarifying the term "standard" equipment under the exclusion clause 1.3.1. was adopted by the Commission Working Group with Authorities.

The remaining guidance sheets of direct interest for the gas industry were under consideration by the PED Working Group. It was expected that the Marcogaz interpretation of scope and provisions would be generally confirmed by the Commission Working Group.

• *Measuring Instrument Directive (MID)*

The European Commission's proposal for an EC Directive on measuring instruments (MID) was transmitted to

the Council and Parliament in October 2000. Since the drafting of MID took several years, its specific annexes have requirements incompatible with the current market situation.

Indeed, since the introduction of the Gas Internal Market Directive gas meters may be owned by service companies or even by the consumer directly. Under these new conditions the gas industry must be able to rely on third party accurate metering. This requires improvement of the specific annex for gas meters, in particular the necessary turndown ratio Q_{max}/Q_{min} to avoid unregistered gas in the residential area. Another question of internal industry discussion was the need for a high accuracy (0.5%) class meters within the scope of MID.

An additional concern for the industry was that OIML (legal metrology body) recommendations would be considered normative documents instead of referring to EN standards. The latter would involve industry participation and would be more practice based. This question was to be further discussed with the Commission and with CEN management.

The specific annex for gas meters was being discussed with the manufacturers' association Facogaz, with a view to drafting a common industry position paper.

Ad hoc Working Groups

Within the general Standing Committee work programme the following ad hoc working groups addressed specific issues.

• *WG PE Pipes*

The WG assesses draft EN standards from CEN/TC155 WG19 applying to PE pipes, fittings and valves for use in natural gas systems. The aim is to draft common additional requirements where needed, in particular in those areas where the draft standards fall short of gas industry requirements for the construction of safe,



reliable and economic gas supply networks. The resulting gas industry specifications are meant to be used by all gas companies when purchasing PE material in the market place and to be considered as a common European industry position that should encourage manufacturers to improve the CEN/TC155 standards for gas.

• *WG Underground Storage*

The WG was set up in 1999 to assess and compare natural gas storage practices relative to corresponding legislation in the Member States, then to assess added value of drafting a possible EU guide setting out the basic safety and prevention principles for gas underground storage facilities in compliance with the safety report under COMAH.

In 2000, the WG completed its benchmark study on existing practices, which were found to fall either under the Mining legislation or under the COMAH Directive. The WG also decided to set up a database of major accidents involving underground storage activities. The final report should be available in Autumn 2001.

Standing Committee Environment

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

Chaired by Mr A. Riva (Snam, I), the Committee met three times in 2000, in February, June and November.

The Standing Committee dealt with a range of issues, mostly in close co-operation with the Eurogas Environment Task Force to which it regularly functions as a source of tech-

nical and scientific investigation substantiating and underpinning the more environmentally political studies and positions framed in Eurogas. Its activities, many of which are still in course, are reported in the following.

Particular attention is given to providing Eurogas with technical and practical operational advice on:

- promoting natural gas, the cleanest fossil fuel, as part of the solution to air pollution and of the climate change problem;
- ensuring that natural gas is not discriminated against relative to other energy sources in environmental policies.

Revision of Large Combustion Plant Directive, LCP (88/609/EEC)

Following on the action conducted in 1999 at the level of the European Commission, representations in 2000 focussed on the Parliament after political agreement on the proposed revision had been achieved in the June Environment Council. The Standing Committee prepared a revised position paper on the proposed emission limit values (ELV) for submission to MEPs (Members of European Parliament) and to national authorities, arguing that the ELVs in the Common Position were already adequately demanding and the unduly strict ELVs under discussion in the Parliament risked undermining the share of gas in primary energy supply. Continued Marcogaz action was favoured to avoid the requirement of continuous measurement for each combustion plant, which was found onerous and retain the option of indirect (input) measurement.

Methane issues

Data and technical arguments regarding the possible reduction of methane emissions from gas industry operations and associated costs had been prepared for the European Commission by Ecofys Consultants, as a contribution to the ongoing

development of a European Climate Change Programme. The MSCE prepared an analytical comment on this, for use in the ECCP discussions in which Eurogas participates. Also for internal use a summary and analysis of literature on methane reduction options was compiled. Notice was taken of a safety standard under discussion in Italy on leakage from domestic gas pipes, incorporating guidance for intervention.

Best Available Technology, BAT - the Seville Process

With the implementation of the Directive on Integrated Pollution Prevention and Control (IPPC) an important process was underway at EU and national levels to determine BAT reference guidelines (BREF) for a range of plant. Work had started on determining guidelines for Large Combustion Plant, covering all emissions to air, water and soil. Marcogaz/Eurogas was represented in the EU level Forum to draw up the LCP Guidelines and agreeing material to submit regarding in the first instance BAT for boilers. The situation will also be studied regarding gas engines and turbines, mainly used in the gas industry's own operations. The EU meetings take place in the Commission's joint research centre located in Seville, Spain, hence the name of Seville Process.

Environmental indicators

Work initiated in the previous year was pursued in 2000 and resulted in a report on environmental performance indicators, with an overview of the work, methodology and results of the data collection already carried out, and with recommendations for future data collection approaches, a proposed users guide and data collection form. The objective was to develop



consolidated non-company specific data that can be published in Marcogaz and Eurogas reports. The report was to be submitted for Board approval early in 2001.

Environmental issues in European Countries

Exchange of information and reports on environmental issues in member countries takes place on a regular basis.

Presentations by guest speakers

The Standing Committee invites regularly to its meetings guest speakers on topical issues.

Presentations in 2000 were:

February meeting:

A representative of the Italian Institute of Atmospheric Pollution spoke about air pollution, problems and related legislation

June meeting:

Vaillant presented its work on the integration of fuel-cell technology in domestic heating systems.

November meeting:

Alstom Power gave a very detailed overview on emission abatement technology in relation to gas turbines.

Presentation at WGC 2000 Nice

A combined Marcogaz and Eurogas presentation was given at the World Gas Congress held in June 2000 in Nice, France, on the role of the gas industry in reducing greenhouse gas emissions by co-operation between countries. The presentation was prepared by the Standing Committee and delivered by Mr Peter I. Hinstrup, Executive Board Member and Past President of Marcogaz.

Working Groups

In relation to selected issues reported

above dedicated working groups were set up as follows:

Environmental Indicators

Following the 1999 decision of the MSCE to establish a group of experts to identify the most important environmental data to be collected in the gas industry a group was set up to prepare recommendations on methods and practicalities of data collection.

The group met several times:

- Developing a view on which data should be collected and to arrange a trial collection exercise;
 - Evaluating the data collected, and assess implications for ongoing work;
 - Agreeing definitions for Environmental Performance Indicators for production, transmission and distribution;
 - After processing the information, producing a report on its work and proposals including a data collection form and users guidelines;
- and made good progress on the MSCE's objective by end 2000.

BAT on gas turbines and engines

The MSCE agreed with a view to comprehensive input to the Seville process on BAT, that advice should be established by a working group on technologies for engines and turbines, with specific reference to the gas industry's own use. The group's membership was agreed later in 2000, and was expected to meet early in 2001.

Work in relation to the European Standards Committee (CEN)

While Marcogaz has a liaison status towards CEN, European Standards work is a foremost interest and activity of Marcogaz member organisa-

tions. Communications and policies of the European gas industry relative to the CEN organisation and activities are closely monitored and co-ordinated through Marcogaz.

Under the CEN/Sector Forum Gas, the European platform to discuss standardisation matters, Marcogaz endeavours to maintain a shared understanding among gas industry partners and with consumers and national authorities and to develop European standards embodying the best gas industry expertise and technology compatible with CEN/TC234 functional standards. Such standards should reflect high-level safety requirements at reasonable cost in operating a continuous gas supply to customers and in maintaining a high safety record in the field of gas utilisation, distribution and transmission. Even if natural gas is the cleanest fossil fuel, the EN standards should include appropriate requirements to minimise the impact of supply activities and appliances use on the environment.

CEN Sector Forum Gas

Since no solution was found to share the rapporteur's cost among SFG stakeholders, Marcogaz has together with CEN/MC, DVGW (Deutsche Vereinigung des Gas- und Wasserfaches) and AFG (Association Française du Gaz) worked out a new structure for CEN/SFG. The proposal was to set up under the full body CEN/SFG two sub-sectors, one for SFGas Supply (SFGas_S)) monitored by DIN NAGas and the other for SFGas Utilisation (SFGas_U) under AFG flag, with two separate rapporteurs and secretariats, free of charge for SFG stakeholders.

Through the proposed re-organisation the Marcogaz objective is to set up a cost-effective and flexible industry driven structure, in which consultation can take place between manufacturers, gas supply industry, authorities, consumers and representatives



of national standardisation bodies for guidance to be given to related CEN/TCs on specific items, such as interpretation of essential requirements of New Approach Directives, environmental aspects and other standard related issues, with a view to ensuring internal co-ordination of work and sharing opinions on standard related matters. The outcome of the re-organisation should lead to faster adoption of standards, in a situation of reduced availability of experts and financial resources as a result of gas market liberalisation and market globalisation.

The principle of the above re-organisation was fully supported by SFG stakeholders at the CEN/SFG meeting, which took place in Brussels in November 2000. The new CEN/SFG organisation will be applied from 2001 on the basis of a business plan together with a programme of work and internal organisation.

CEN/TC234 "Gas Supply"

Marcogaz, the representative of the European gas supply industry on all technical issues, maintains strong relationship with CEN/TC234. The latter has completed its work programme mandated under the Utilities Directive 93/38, to draft European functional standards for natural gas supply systems. At its meeting held in September 2000, Marcogaz presented a paper "future work and strategy for CEN/TC234", its task and work programme for the year 2000 and beyond with following key issues:

- To monitor implementation of CEN TC234 functional standards in European countries in co-existence with national legislation covering pipeline systems and national standards and codes;
- To ensure compatibility between the requirements of CEN/TC234 functional standards and the performances defined in CEN/ISO product standards;

- In a second step, to recommend gradual improvement of CEN/TC234 standards to decrease differentials between existing national legislation and current CEN/TC234 standards, the objective being "the creation of the adequate safety playing field" as a minimum for all pipeline operators;
- To apply in an effective manner the ISO/CEN Vienna agreement protocol to avoid double work between both bodies, with the aim to have in the European and international market place, standards based on comparable or equivalent safety principles and to bring CEN standards in ISO area on a case by case approach;
- To review the status of liaison officers to monitor standardisation work outside the CEN/TC234 field with the task to detect in an early stage new developments having impact on the gas industry business and to identify areas where the product standards are incompatible with CEN/TC234 standards or where the standard does not achieve the required quality. The newly created SFGas Supply (SFGas_S) should facilitate consultation between all parties concerned to achieve the above mentioned objectives.

CEN Sector Forum Gas Working Groups

Under the Sector Forum Gas several WGs have been set up to deal with horizontal issues, three of which are convened by Marcogaz members.

WG2 "Environmental Aspects in Appliance Standards"

The WG is convened by the Marcogaz Secretariat.

The WG has drafted an example for the environmental matrix for EN 483 "Room sealed boilers", identifying the effect on the environment (inputs and outputs) of gas appliance product life cycle, which was agreed with minor comments, by the CEN Environmental Helpdesk (EHD). It will serve as an example for other types of gas

appliances.

The EHD, created in September 1999 established its annual report to BT, a compilation of a pilot list of WIs on which EHD has given advice as well as information regarding EHD newsletter. CEN Strategic Advisory Body on Environment (SABE) is currently discussing the future of the CEN/EHD.

WG8 "Construction Products"

The WG8 drafted a proposal to clarify the scope of the draft EC mandate M131 which was adopted by SFG stakeholders at the SFG meeting which took place on 29-30 November 2000.

It was suggested to draft in the first place standards for all "gas" products inside the building up to the appliances, independently of the last point of delivery of the distribution grid. In a second stage, where relevant, to draft standards under CPD mandate for products used outside buildings but downstream the distribution grid. The WG8 will establish a positive list of products falling under its scope.

WG6 "Pressure Equipment"

CEN/SFG proposed guidance sheets have been discussed with the Commission WGP "Pressure", a nucleus of authorities and Commission officials and Marcogaz.

The WGP "Pressure" interpretation is close to the gas industry guidelines. The final adoption of guidance sheets to apply PED, is the task of the Commission WG "Pressure" meeting in April 2001. It is assumed that the Commission WG will adopt the subject guidance sheets. CEN/TCs involved already started work to obtain the EC mandate under PED for their products, in drafting a report indicating gaps between the existing standards or drafts and the PED essential requirements.

Marcogaz is concerned that PED requirements should be set out in a



coherent and consistent manner between all product TCs involved and compatible with CEN/TC234 system standards.

Joint meetings with Manufacturers

Marcogaz initiated several joint meetings with FAREGAZ (Union of European Manufacturers of Gas

Pressure Controllers) and FACOGAZ (Chambre Syndicale des Fabricants de Compteurs Gaz) to establish synergies and common understanding with respect to EC Directives concerning Pressure Equipment (PED), Construction Products (CPD) and the forthcoming EC Directive concerning measuring instruments (MID).

In each area concerned, common industry position papers were established or are in preparation.

In the field of gas utilisation, Marcogaz maintains close contacts with AFECI (Association of European

Manufacturers of Instantaneous Water Heaters and Wall-Hung Boilers), EBA (European Boiler Association), CEB (European Committee of Manufacturers of Burners) and AFECOR (European Control Manufacturer's Association) to exchange views on new developments under EU legislation, and with respect to CEN/SFG, GADAC and BEDAC activities.

Membership at 31 March 2001 of Standing Committees and Working Groups

SC Gas Utilisation

Th. Jannemann, Chairman (DVGW, D) - M. Borsani (SVGW, Ch) - A Clauwaert (Electrabel, B) - R. Dann (Advantica Technologies Ltd, GB) - F. Dupin (DVGW, D) - F. Ferrer (Sedigas, E) - Fr. Jonon (Gaz de France, F) - J. Schweitzer (Danish Gas Technology Centre, DK) - C. Soerig (Danmarks Gasmateriel Provning, DK) - M. Thompson (British Gas Services, GB) - C.D. Vermeulen (Nederlandse Gasunie, NL) - P. Walshe (Bord Gais Eireann, IRL) - T. Williams (Advantica Technologies Ltd, GB) - M. Weichselberger (Wiengas, A) - M. Zeppegno (Italgas, I)

WG Boiler Efficiency Labelling

R. Blackler (Advantica Technologies Ltd, GB) - R. Blanco (Sedigas, E) - M. Borsani (SVGW, CH) - A. Colonna (Gaz de France, F) - 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. Walshe (Bord Gais Eireann, IRL) - T. Williams (Advantica Technologies Ltd, GB)

WG Task Force Energy Performance of Buildings

M. Desprets (KVBG, B) - F. Dupin (DVGW, D) - F. Jonon (Gaz de France, F) - J. Schweitzer (Danish Gas Technology Centre, DK) - J. Steiglechner (TÜV, D)

SC Gas Supply

D. Pelloux-Prayer, Chairman (Gaz de France F) - E. Aceto (Italgas, I) - J.M. Baillard (EDF-GDF Services, F) - R. Bräuer (SGWA, CH) - Fr. Dupin (DVGW, D) - J. Fentz (Naturgas Midt/Nord, DK) - R.C. Ford (Transco, GB) - J. Gutierrez Pascual (Enagas, E) - K. Haring (Tiroler Ferngas (Tigas), A) - R.D. Heinrich (Netg, Metg, Setg, D) - Kl. Homann (Westfälischeferngas (WFG), D) - J.Cl. Hourriez (Gaz de France, F) - D. Jagodzinski (DVGW, D)

- A. Klees (DVGW, D) - G. Linke (Ruhrgas, D) - V. Musazzi (Snam, I) - C. Musgrave (Transco, GB) - A. Oijord (Statoil, N) - B. Osterbye (Dong, DK) - J. Puertas (Gas Natural SDG, E) - J. Spiekhout (Nederlandse Gasunie, NL) - E. Van Ingelghem (Electrabel, B) - M. Verlinden (Distrigaz, B) - P. Walshe (Bord Gais Eireann, IRL)

WG Gas Meters

R. Blackler (Advantica Technologies Ltd, GB) - 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 (Distrigas, B) - H.P. Nowak (ON, A) - A. Oijord (Statoil, N) - Q. Pellei (Snam, I) - B.B. Petersen (Hovedstadsregionens Naturgas I/S, DK) - J. Sibley (Advantica Technologies Ltd, GB) - M. Uhrig (Ruhrgas, D) - P.M.A. Van Der Kam (Nederlandse Gasunie, NL) - P.



Walshe (Bord Gais Eireann, IRL)

Utilities Metro Committee*

P. Arnac (Eureau, B) - R. Blackler (Advantica Technologies Ltd, GB) - J. Dehaeseleer (Electrabel, B) - A. Dick (Eurelectric, GB) - P. Grosshennig (Bayerngas, D) - P. Kröhner (Euroheat & Power Unichal, B) - M. Marin (Distrigaz, B) - D. Richelet (Schlumberger Industries, F) - J. L. Ryan (Eurelectric, GB) - J. Senave (Facogaz, B)

Utilities Radio Committee

B. Bonnechere (Gaz de France, F) - M. Borsani (Schweizerischer Ver. des Gas & Wasserfaches, CH) - Chr. Bothe (Spanner Pollux, D) - P. Coghlan (Bord Gais, IRL) - A. de Montgolfier (Schlumberger Industries, F) - J. Dehaeseleer (Electrabel, B) - A. Dick (Eurelectric, GB) - B. Drijsen (Itron, F) - F. Dupin (DVGW, D) - Mrs. L. Fasoli (Italgas, I) - G. Ferrero (Italgas, I) - P. Fischer (Siemens Building Technologies, CH) - K. Haring (Tigas, A) - H.E. Jensen (HNG, DK) - A. Jones (BCN Data Systems Ltd, GB) - H.U. Kaiser (Digades, D) - B.B. Petersen (Hovedstadsregionens Naturgas, DK) - D. Plummer (BCN Data Systems Ltd, GB) - Th. Schaub (Siemens Metering Ltd, CH) - J. Senave (Facogaz, B) - K. Steiner (Elster, D)

WG Transmission Pipelines

R. Bräuer (SGWA, CH) - M. Brown (Advantica Technologies Ltd, GB) - D. Deberdt (Distrigaz, B) - M. Fuchs (OMV, A) - J. Gutierrez Pascual (Enagas, E) - K. Haring (Tigas, A) - R.D. Heinrich (Netg, Metg, Setg, D) - M. Ladefoged (Dong, DK) - F. Laurens (Gaz de France, F) - G. Linke (Ruhrgas, D) - V. Musazzi (Snam, I) - A. Oijord (Statoil, N) - J. Spiekhout (Nederlandse Gasunie, NL)

WG Transmission SMS

R. Bräuer (SGWA, CH) - M. Brown (Advantica Technologies Ltd, GB) - A. Cappanera (Snam, I) - B. Crabs (Distrigaz, B) - D. Deberdt (Distrigaz, B) - M. Fuchs (OMV, A) - K. Haring

(Tigas, A) - R.D. Heinrich (Netg, Metg, Setg, D) - D. Jagodzinski (DVGW, D) - M. Ladefoged (Dong, DK) - F. Laurens (Gaz de France, F) - G. Linke (Ruhrgas, D) - V. Musazzi (Snam, I) - A. Oijord (Statoil, N) - J. Spiekhout (Nederlandse Gasunie, NL) - J. Zarraga (Enagas, E)

Pipelines Federations Group*

J. Alberti (Dow Benelux, NL) - Mrs. J. Bugler (IMCA, GB) - Jensen-Korte (Cefic, B) - F. Jonckheere (Cefic, B) - T. Knight (BOC Ltd, GB) - G. Linke (Ruhrgas A.G., D) - E. Martin (Concawe, B) - J. Mocquart (Concawe, F) - D. Pelloux-Prayer (Gaz de France, F) - H. Puype (EIGA, B) - Mrs B. Raabe (Oil and Gas Producers Association, B) - Brian Raggett (Oil and Gas Producers Association, B) - J.M. Sagot (EIGA, F) - J. Spiekhout (Nederlandse Gasunie, NL) - M. Verlinden (Distrigaz, B) - W. Vranckx (Nederlandse Aardolie Maatschappij, NL)

WG Pressure Equipment

O. Anema (Nuon TB, NL) - Kl. Büschel (DVGW, D) - A. Clark (Bryan Donkin Rmg Gas Controls, GB) - M. Crespi (Snam, I) - F. Dupin (DVGW, D) - M. Durandeu (EDF-GDF Service, F) - J. Fentz (Naturgas Midt/Nord, DK) - D. Jagodzinski (DVGW, D) - M. Kidd (Advantica Technologies Ltd, GB) - A. Klees (DVGW, D) - V. Musazzi (Snam, I) - H.P. Nowak (A) - G. Pichard (AFIR/CEIR, F) - M. Pohl (Ruhrgas, D) - E.J. Roelofsen (Nederlandse Gasunie, NL) - P. Roovers (Distrigaz, B) - J. Senave (Facogaz, B) - A. Sircar (Thüga, D) - L. Van Hoeymissen (Electrabel, B)

WG Underground Storage

D. Deberdt (Distrigaz, B) - G.H. Joffre (Gaz de France, F) - L. Kreuz (OMV, A) - Mrs A. Leprince (Gaz de France, F) - G. Linke (Ruhrgas, D) - Mrs R.M. Nieto Prieto (Enagas, E) - Mrs B. Osterbye (Dong, DK) - A. Papi (Eni-Agip, I) - B. Smith (Advantica Technologies Ltd, GB)

PE pipes

J. Canet (Gas Natural SDG, E) - R. Denner (EVN, A) - M. Durandeu (EDF-GDF Service, F) - T. Hill (Advantica Technologies Ltd, GB) - Th. Neumann (Westfälische Ferngas, D) - M. Vacchina (Italgas, I) - L. Van Hoeymissen (Electrabel, B) - Mrs H. Vinck (ARGB, B) - M. Wolters (Gastec, NL)

SC Environment

A. Riva, Chairman (Snam, I) - J. Butterworth (Transco, GB) - Fr. Dupin (DVGW, D) - J. Fernandez Docio (Gas Natural, E) - J.M. Figoli (Gaz de France, F) - J. Gullentops (Figas, B) - Th. Heissenberger (Austria Ferngas, A) - J.K. Jensen (Danish Gas Technology Centre, DK) - A. Kilchmann (SVGW, CH) - M.A. Loudon (Marcogaz, B) - M. MacMillan (Transco, GB) - M. Mondino (Italgas, I) - Tr. Nordal (Den Norske Stats Oljeselskap, N) - J. Roebbers (Gastec, NL) - E. Tastevin (Gaz de France, F) - T. Veenstra (Nederlandse Gasunie, NL) - M. Verlinden (Distrigaz, B) - J. Vorgang (Ruhrgas, D) - P. Walshe (Bord Gais Eireann, IRL)

WG Environmental Indicators

T. Chapuis (Gaz de France, F) - S. D'Angelosante (Snam, I) - M. Girard (Italgas, I) - B. Karll (DGC, D) - G. Macmillan (Transco, GB) - T. Veenstra (Gasunie, NL) - J. Vorgang (Ruhrgas, D)

WG BAT for Gas Engines and Turbines

C. Caroli (Snam, I) - R. Libosvar (Gaz de France, F) - J. Vorgang (Ruhrgas, D) - A. Wauters (Distrigaz, B)

* Multi-sectoral working party co-ordinated by Marcogaz.

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