LEGAL NOTICE

Bundesvereinigung der Firmen im Gas- und Wasserfach e. V. - figawa

Technical and scientific association

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Dear Figawa members,

In 2019 and 2020, in my new role as Managing Director, I was able to begin implementing the initial measures of the FIGAWA 2020 programme for the future with my colleagues in the office and the Figawa President Board and Managing Board. I think that the results we have achieved together with you, the members of Figawa, during this period are impressive. For this, we thank you!
Dear figawa members,

Two very different and challenging years lie behind us.

In 2019, we were still planning energetically, for example making our trade fair appearances, and looking forward to getting in direct contact with each other and with our customers to present our products and services.

Instead, we experienced large-scale restrictions due to the ongoing COVID-19 pandemic, the effects of which are not yet fully foreseeable.

Suddenly, topics such as hygiene strategies, mobile working and digital meetings were in the spotlight in order to organise work processes in a stable and reliable way. It has become clear that even the best technology cannot replace interpersonal relationships and face-to-face meetings. This is something we also noticed in our association work. I am very much looking forward to meeting you all at figawa, as soon as this is possible again.

Until then, we will see each other in the various online meetings, which have become very structured and solution-oriented and enjoy a positively high level of acceptance.

I am sure that once the Covid epidemic is over, we will enter into a new normal. A normality that will change our working world and especially our work at figawa and push it further ahead.

So far, the gas and water sector has come through 2020 in good financial shape. However, the next few years will show how seriously we take the issues of sustainability, circular economy and resource efficiency.

So let us see 2020 in particular as a year of reflection and of returning to our most important tasks and virtues.

I am sure that we will be able to master and shape these important professional issues together in figawa in the coming years. In 2021, the merger of the figawa, grzi, and VHB associations will result in major synergies. We are also continuing to consistently implement our FIGAWA 2030 programme for the future with the planned restructuring of the professional work at figawa.

In this annual report we will present in detail some highlights of figawa’s activities over the past two years. We hope you will be excited and participate in the continued development of our association.

I would like to take this opportunity to thank all of you for giving so much time and commitment to figawa in addition to your demanding work. After all, we are working together to shape the regulatory framework for our investments in the future!

Let me end with a quote from John F. Kennedy:

The word crisis is composed of two characters in Chinese – one means danger and the other means opportunity.

In this spirit, I wish you and your family all the best and good health!

On behalf of the figawa Presidial Board

Dr. Günter Stoll
President of figawa e. V.
Dear figawa members,

In 2019 and 2020, in my new role as Managing Director, I was able to begin implementing the initial measures of the FIGAWA 2030 programme for the future with my colleagues in the office and the figawa Presidial Board and Managing Board.

I think that the results we have achieved together with you, the members of figawa, during this period are impressive. For this, we thank you!

Modernisation of figawa

When I look back at 2019 and 2020, a few things in particular stand out to me. First, there were several important changes in the office:

- We created transparency and financial clarity by consistently implementing the new dues schedule and restructuring our financial controlling.
- The relaunch of our website in May 2019 now portrays the image of an association that focuses on the issues of its members and continues to develop with a view to the future. Also available in English since December 2019.
- In the last two years, we have integrated two new staff members, Carina Janich and Michael Reinders, into our team and will continue to strengthen our staff.
- We migrated our entire IT infrastructure to the cloud at the beginning of 2021 and at the same time implemented Microsoft Teams for internal office work.
- We incorporated the subject of hydrogen into our specialist work and are now a recognised stakeholder in many relevant regulatory groups. However, most importantly, we will continue to develop this topic as a sector of its own!

Focus on issue-oriented technical work

Simultaneously, we focused on issue-oriented technical work and developed approaches to solutions with our members. The following points in particular are worth mentioning here:

- The project “One Standard, one Test, accepted everywhere in Europe” was successfully completed. We succeeded in achieving harmonisation of materials in contact with drinking water for the first time with the publication of the new European Drinking Water Directive in January 2021!

IMPORTANT MILESTONES REACHED

°1
Through our active participation in the BMWi’s “Gas 2030” project, we played a part in shaping the position of the gas industry for the future and kept the door open for gas-specific solutions in climate policy.

We are a partner and active contributor to the large dena project “Aufbruch Klimaneutralität” (The Dawn of Climate Neutrality), where we provide guidance for an energy policy in Germany that is geared towards the future.

We succeeded in repositioning ourselves in a new and transparent way in the complex subject area and on the special issues related to in situ systems in the treatment of water according to the European Biocidal Products Regulation and are thus recognised as a reliable partner by the European Commission and the ECHA.

At the national level, we were able to establish transitional periods for the application of the Evaluation criteria for plastics and other organic materials in contact with drinking water within the framework of the requirements of the Drinking Water Ordinance.

Strengthening our networks

It is also important for us to initiate and practise cooperation with other associations:

- We have entered into a strategic partnership with the ZVSHK and the BTGA to provide joint commentary and training in the field of drinking water installation in the near future.
- Messe Essen and figawa have concluded a cooperation agreement to jointly focus on the topics of drinking water and hydrogen at SHK ESSEN.
- We are working with DVGW Cert GmbH on the continued development of certification programmes for innovative products and preparing for H2.
- In the last two years, we have concluded new cooperation agreements with the VDMA, KRV and BSW associations in order to cooperate even better in the future.

As you can see from these examples, some of which you can read in more detail in the following annual report, we are on the right track and we really enjoy working with you.

We will continue along this path and strengthen the foundations of figawa. The merger with the VHB and grzi associations in 2021 will contribute to this and make us even stronger in the future.

I think we have a lot planned for the next few years, but we can only make it happen if you continue to be involved in the figawa community!

We will support and push you in this process. Thank you very much for your involvement in figawa’s various expert committees! Our association thrives on your expertise and commitment.

Finally, I would like to say a special thank you to all my colleagues at the Marienburgerstrasse office. Thank you very much for your tremendous commitment!

Yours

Volker Meyer
Managing Director figawa e. V.
°2 ASSOCIATION
We - the community of member companies - are figawa! This means: We assume social responsibility by actively helping shape technical legislation - laws, regulations and directives - and its implementation in standards and norms.

Together we are shaping the regulatory framework for our investments in the future. And we do this by combining the technical concerns of our members and promoting uniform and ambitious standardisation - nationally and at the European level.

We have a clear and guiding vision to establish figawa as the technical and scientific association of producers and service providers of gas and water applications throughout Europe.

Uniform technical requirements in our target markets!

1. We push for standardisation with a high level of quality and protection.
2. We have the ambition to shape rules and standards as well as the regulatory framework in Europe.
3. We set the topics and lead the way.
4. We are active in the international, European and national standardisation of products, systems and services.

Benefits for our members

- Identification of industry trends
- Help shape technical legislation
- Develop and guide standardisation
- Help shape conformity assessment procedures and guide certification processes
- Advice and assistance on conformity matters
- Access to technical policymaking and regulatory processes
- Clarification of technical and legal issues and preparation of working documents
- Information on developments affecting the industry
- Sourcing and processing of information from science, technology and practice
- Initiation and guidance of scientific studies
- Initiation of cooperation with other associations
- Development of statements and positions on industry issues
- Vocational education and training
OUR MEMBERS IN THE GAS AND WATER SECTOR

The members of figawa are mostly component manufacturers, product manufacturers, well builders, plant constructors, plant planners, service providers and laboratory service providers. (Updated: March 2021)
KRAIBURG TPE GmbH & Co. KG
KROLL & ZILLER GmbH & Co. KG
KRYSTCHI Wasserhygiene GmbH
Kühler GmbH
Kühme Armaturen GmbH
KyroChem GmbH
LAMTEC GmbH & Co. KG
LAMTEC Leipzig GmbH & Co. KG
Landis+Gyr GmbH
LAV.EL GOMMA S.R.L.
LEDOS Aktiengesellschaft
LEGIO-WATER GmbH
LK Metallwaren GmbH
Jürgen Löhreke GmbH
Lorenz GmbH & Co. KG
LPR Energy GmbH
Luces Ingenieure Ingenieurgesellschaft für technische Gebäudeausrüstung mbH
Lutz-Jesco GmbH
m. hübers gmbh
Maddalena GmbH
magnetic GmbH & Co. KG
Mannesmann Line Pipe GmbH
Marquis GmbH
Maxitrol GmbH & Co. KG
Medenus Gas-Druckregeltechnik GmbH
Metreg Technologies GmbH
METRONA Union GmbH
MRU Messgeräte für Rauchgas und Umweltschutz GmbH
NDW Neue Duschenvelt AG
N-ERGIE Netz GmbH
NORD Bohr und Brunnenbau GmbH
nordluff Wärme- und Lüftungstechnik GmbH & Co. KG
Nordwestdeutsche Zählerrevision Ing. Aug. Knemeyer GmbH & Co. KG
nPlan engineering GmbH
Nunner GSV-Systeme GmbH
OEG GmbH
ORBEN Wasseraufbereitung GmbH
Otto Scheurerer Bautenschutz GmbH
Oventrop GmbH & Co. KG
PEG Rohrleitungssysteme GmbH
Pender Strahlungsheizung GmbH
Pentair International Sàrl
perma-trade Wassertechnik GmbH
Peter Presch GmbH
Peter Skiba Kunststoff GmbH
pipadi GmbH
PIPELIFE Austria GmbH & Co. KG
PIPELIFE Deutschland GmbH & Co. KG
PLASSON GmbH
PPS Pipeline Systems GmbH
Prominent GmbH
QUNDIS GmbH
RÄDLINGER PRIMUS LINE GMBH
RATEC GmbH
REHAU AG + Co
Reinigungsservice für Wasserförder- u. Aufbereitungsanlagen
Renew and Gas GmbH
RETTIG Germany GmbH
RheinKalk GmbH
RMG Messtechnik GmbH
RMGS GmbH Rombach Metering Gas Solution
RMTr Rohr- u. Maschinenanlagenbau GmbH
Robert Plängsken GmbH
Roth Industries GmbH & Co. KG
Rüdiger Werner Consulting
runkel GmbH & Co. KG
S.A.B. Süddeutsche Anlagenbau GmbH
SANHA GmbH & Co. KG
SAX + KLEE GmbH
Schandl GmbH
Schulte GmbH
SCHULTE-Industrieheizung GmbH
Schütz GmbH Messtechnik
Schwank GmbH
Schwell Anlagenbau GmbH
Sensoric Gas Sensors - a division of Life Safety
Sensus GmbH Ludwigshafen
Seppelfricke Armaturen GmbH
SICK AG
Siemens AG
Sika Deutschland GmbH
SIT CONTROLS Deutschland GmbH
SPIE SAG GmbH
Stanley Electric GmbH
Stockmann GmbH & Co KG
STREICHER Anlagenbau GmbH & Co. KG
STRÜDER Rohr-, Regel- und Meßanlagen GmbH
STÜWA Konrad Stükerjürgen GmbH
Südwestdeutsche Salzwerke AG
SYNLAB Analytics & Services Germany GmbH
SYSTRONIC Elektronik u. Systemtechnik GmbH
TBD Technische Bau Dienstleistungen GmbH & Co. KG
tegoeg Tegtmeyer Geophysik GmbH
Testo SE & Co. KGaA
Thielmann Energietechnik GmbH
Trelleborg Sealing Solutions Germany GmbH
TRIWALA GmbH
Trojan Technologies Deutschland GmbH
UCL Umwelt Control Labor GmbH
Ulmant Dichtungstechnik GmbH
UMEX GmbH
Uni-Geräte E. Mangelmans Elektrotechnische Fabrik GmbH
Uponor GmbH
UST Umweltensorsche GmbH
Vacurant Heizsysteme GmbH
VAG Holding GmbH
Vaillant GmbH
Venator Wasserchemie GmbH
Viega GmbH & Co. KG
Vormann Holding GmbH
VORWERK Pipeline- und Anlagenservice GmbH
W&S Wassertechnik GmbH
WAGA Wärme-Gastechnik GmbH
Wasser-Geräte GmbH
Wassertechnik Wertheim GmbH & Co. KG
watercat gmbh
WATERcontrol AG
Watercrys Wassertechnik GmbH & Co. KG
Wavin B. V.
WESSLING GmbH
Wieland-Werke AG
WIKON Kommunikationstechnik GmbH
Wilhelm Keller GmbH & Co. KG
WILO SE
WimTec Sanitärprodukte GmbH
Witty GmbH & Co. KG
Wilzenmann Speck GmbH
wks Technik GmbH
WM aquatec GmbH & Co.KG
Woco IPS GmbH
Wöhler Technik GmbH
Wolf GmbH
WTG Deutschland GmbH
XERVON Instandhaltung GmbH
Xylem Water Solutions Deutschland GmbH
Yachtcicon A. Nagel GmbH
ZENNER International GmbH & Co. KG

The list of all figawa member companies is also available at https://figawa.org/en/figawa/membership.
In addition to national association work, the relevance of our involvement in European legislative procedures and technical regulatory processes continues to increase. For this reason figawa is even more involved in the European associations Aqua Europa and the European Drinking Water initiative for the water sector, as well as ELVHIS, Farecogaz, Afecor and Euro-Air for the gas sector.
WE ARE ACTIVELY INVOLVED IN THE DESIGN OF TECHNICAL REGULATIONS
AND ARE REPRESENTED IN:

**International:**
- ISO/TC 161 Controls and protective devices for gas and/or oil

**European:**
- CEN/TC 47 Atomizing oil burners and their components - Function - Safety - Testing
- CEN/TC 58 Safety and control devices for gas burners and gas-burning appliances
- CEN/TC 92 Water meters
- CEN/TC 164 Water supply
- CEN/TC 176 Thermal energy meters
- CEN/TC 180 Decentralised gas heating
- CEN/TC 234 Gas infrastructure
- CEN/TC 235 Gas pressure regulators and associated safety devices for use in gas transmission and distribution
- CEN/TC 237 Gas meters
- CEN/TC 294 Communication systems for meters
- CEN/TC 451 Water wells and borehole heat exchangers
- CEN Sector Forum Gas Infrastructure
- CEN Sector Forum Gas Utilisation

**National:**
- Working Group of the Federal Ministry for Economic Affairs and Energy
- German Committee for Construction Contract Procedures (Deutscher Vergabe- und Vertragsausschuss für Bauleistungen; DVA)
- DIN Standards Committee Building and Civil Engineering (NABau)
- DIN Standards Committee Gas Technology (NAGas)
- DIN Standards Committee Water Practice (NAW)
- DIN Standards Committee Heating and Ventilation Technology and their Safety (NHRS)
- DVGW Cert Advisory Board and Supervisory Board
- DVGW Research Advisory Board
- DVGW Gas and Water Steering Committees
- DVGW Gas and Water Technical Committees
- DVGW Gas and Water Project Groups
- UBA Expert Committee “Plastics and other non-metallic materials in contact with drinking water (KTW-FG)”.
- UBA Expert Committee “Metallic materials in contact with drinking water”
- VDI Technical Committee on Sanitary Engineering and Guideline Committees
- VF-NHRS
- Preparatory Committee for EC Harmonisation in Building (VAEG) at the Federal Ministry of Regional Planning, Building and Urban Affairs

“VALUES”
We are credible, cooperative and goal-oriented in our actions

**EU committees:**
- Notified Bodies group Gas Appliances – Open (NBGA-open)
- Drinking Water Expert Group
- Level(s)
- Meetings of the Competent Authorities (CA) on the Biocidal Products Regulation
Since the adoption of the FIGAWA 2030 programme for the future in 2018, we have been consistently working on the implementation of this comprehensive concept for the continued development of figawa.

The result is a mission statement on the future of cooperation between the companies in our association and the establishment of very clear strategic goals. In addition, specific fields of action and measures were defined in order to facilitate the achievement of the strategic goals.

Coordinating and balancing of the many different topics in figawa’s committees has been a challenge so far. Through the development of a new technical structure and the introduction of coordination groups for ad hoc topics, an efficient and transparent structure has now been developed that is specifically able to take up and process new topics quickly – regardless of whether they are in the gas or water sector or are interdisciplinary topics (such as hydrogen).

In addition, the introduction of rules of procedure for the Presidial Board, the Managing Board and specialist work ensures the flexibility of the organisational structure and procedures.

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**OUR PROGRAMME FOR THE FUTURE, FIGAWA 2030 - IMPLEMENTATION IS MOVING FORWARD**

We have already implemented some measures, others are in the process or will be launched:
Cooperative partnership with other industry associations was identified as one of the most relevant measures in the FIGAWA 2030 programme for the future and one of figawa’s strengths. In the past figawa had a complex structure of company members, association members and corporate associations.

In order to make use of and optimise our synergies, the first step we took was to work together with the grzi and VHB associations towards merging the associations with figawa.

figawa also concluded two new cooperation agreements in 2020 – with the VDMA Valves Association and with the Kunststoffrohrverband e. V. (KRV). In each case, the aim is to intensify strategic and technical cooperation based on a mutual understanding that independence of both associations promotes claims to equality. Such agreements are now gradually being made with other associations.

The current dues schedule was adopted at the 2018 General Assembly. The previous method of determining fees by the number of employees was changed to the revenue generated in Germany with products and services in the gas and water sector. Additionally, the admission fee was abolished at the 2019 General Assembly. This gives us an efficient, fair and transparent dues structure that can be further developed if necessary.

As part of the transition of figawa committees to the new sector model, so-called “profiles” are being drawn up for each working committee. This is to ensure that the projects and activities of each committee are clearly planned and transparently presented to the member companies. In addition, it simplifies resource and time planning.

In 2021, we will start a comprehensive branding process at figawa. At the end of this process we should have a clear answer to the question “What does figawa stand for?” The aim is to be known as an independent organisation/platform both at the national and European level with the essence of the brand in line with the purpose, vision and goals of the relevant stakeholders. This is based on figawa’s mission statement and its continued development through a new professional committee structure and the mergers of the associations.

figawa Service GmbH (FSG) is a service subsidiary 100% owned by figawa. One of FSG’s core tasks is the development, marketing and implementation of training events for professional development and continuing education in the gas and water sector. The intention is now to expand this area. The expansion of the training programme to include the technical regulations for drinking water installations is being planned together with our partners BTGA and ZVSHK.
On 7 and 8 May 2019, figawa members met for the biennial annual Meeting - this time in Würzburg.

During the General Assembly, new elections were held for the Managing Board and then for the figawa Presidial Board.

The members of the figawa Presidial Board elected for the 2019 to 2021 electoral period were Karl-Heinz Backhaus (Vaillant GmbH), Karl Dungs (Karl Dungs GmbH & Co. KG), Willi Hecking (Hans Sasserath GmbH & Co. KG), Prof. Friedhelm Schlößer (Schwank GmbH), Dr. Günter Stoll (Grünbeck Wasseraufbereitung GmbH) and Jörn Winkels (Mannesmann Line Pipe GmbH).

In addition to the election of the Presidial board and the Executive Board and the discharge of the Presidial Board, the Managing Board and Management, the cancellation of the admission fee was also on the agenda.
In order to open figawa to further interested companies, the General Assembly unanimously decided to abolish the admission fee and thus significantly lowered the entry hurdle for new members.

The accompanying figawa forum focused on new ideas and information regarding the topic of “Digitisation – What does it mean for the gas and water industry?”

The aim of the event was to create a more precise definition of the term digitisation for the gas and water industry and to develop recommendations for action. Therefore, the topic was looked at from different angles.

Speakers Prof. Dr Maximilian Lude and Sebastian Bartling (Philoneos – Büro für Zukunftsangelegenheiten), Helmut Bramann (Zentralverband Sanitär Heizung Klima), Jan-Peter Ewe (Wilhelm Ewe GmbH & Co. KG) and Ulrich Eff (Diehl Metering GmbH) provided exciting insights.

Because one thing is clear: Digitisation has long since arrived in the world of the gas and water industry. New product families are no longer conceivable without digital networking. In the building services and utilities sector, digitisation plays a key role in fulfilling the hygiene, safety and efficiency of the systems.

But networking was not forgotten either: The discussion on this range of topics was continued at the joint informal dinner, which helped to promote interdisciplinary discourse in the gas and water sector.
CONTINUED DEVELOPMENT OF THE ASSOCIATION’S COMMUNICATION

ONLINE FORUM “HYDROGEN IN PRACTICE”

In 2020, figawa held initial talks with the Vulkan-Verlag publishing house on the creation of an online series on the topic of hydrogen. Under the title “Online-Forum: Wasserstoff in der Praxis” (Online Forum: Hydrogen in Practice), the series of lectures was divided into several thematic blocks and started in March 2021.

figawa is primarily responsible for the content of the extensive specialist programmes on the following topics:

- Infrastructure
- Hydrogen in the heating market
- Building services engineering
- Decarbonisation - Hydrogen for production & sites
- Thermoprocess technology & process heat
- Support tools for companies

The dates will be spread across 2021.

CLEAR FOCUS ON SPECIALIST TOPICS

In the past two years, figawa’s communication has seen significant improvements and new formats have been launched.

In addition to the production of specialist publications, one focus was on new event formats with various partners in the figawa network.
PROMOTIONS AT TRADE FAIRS

figawa would have celebrated its premiere as a cooperation partner of SHK ESSEN 2020 from 10 to 13 March 2020. Two new exhibition formats would have been implemented there along with other partners such as the SHK NRW trade association: the “Treffpunkt Trinkwasser” (Drinking Water Meeting Point), a joint stand for companies in the water sector with an accompanying series of lectures, and “Wasserstoff-Praxis” (Hydrogen in Practice), a hands-on dialogue forum for hydrogen technology.

A total of 30 exhibiting companies, partner associations and other organisations had registered for the two main topics.

Due to the COVID-19 pandemic, SHK ESSEN 2020 was cancelled. The next SHK ESSEN will take place from 8 to 11 March 2022.

IFAT, the World’s Leading Trade Fair for Water, Sewage, Waste and Raw Materials Management, in Munich is another permanent fixture in the trade fair calendar.

figawa has been a partner of IFAT since 2018 and has presented every solution for well construction, drilling technology, support materials and other services related to the extraction of drinking water with the WATER FROM WELLS concept together with the companies of the figawa Sector Group Water Abstraction.

Following the cancellation of IFAT 2020, the joint exhibition stand concept for 2022 will now be expanded. A figawa industry event on the topic of “drinking water technology” is being planned, which will offer interested companies the opportunity to present themselves and give specialist presentations in a small forum area.

NEW LOOK FOR THE FIGAWA WEBSITE

Since May 2019 figawa has been available in two languages (German/English) at www.figawa.org. In this relaunch, particular emphasis was placed on clear communication of the specialist topics that figawa members deal with and the responsiveness of the site, that is, optimal display on mobile devices. This provides interested parties with a clear and structured insight into figawa’s core topics, its organisational structure and services.

Its contents are constantly being added to and improved. For example, a new topic page on figawa’s hydrogen activities has been added.

NETWORKING ON LINKEDIN

figawa publishes news and exciting topics on the association’s own company page on LinkedIn. Since its launch in 2019, it has attracted around 400 followers. This gives figawa a presence in the world’s largest online network for professional exchange and draws attention to the association’s activities.
Excitingly, things will continue in 2021/2022, as the focus will be on a comprehensive, strategic **brand-building process**. The FIGAWA 2030 programme for the future identified the need to raise figawa’s profile as an independent organisation in Germany and, in general, in Europe. In addition, the essence of the brand (“What does figawa stand for?”) is not yet clear enough.

The goal of this comprehensive branding process, which will also take new developments into account after the merger with the VHB and grzi associations, is to make figawa even better known in the industry as a technical and scientific organisation on a national and European level with the essence of the brand in accordance with its purpose, vision and goals.

Following the completion of the modernisation of figawa’s office IT system, internal communication has also begun to improve. Here, too, the aim is to develop an internal communication strategy with the appropriate measures and to implement these effectively on the basis of defined annual communication plans using effective tools. The central element of this is the introduction of an efficient intranet, which will also serve as a knowledge portal.
°3 TOPICS
REVISED EU DRINKING WATER DIRECTIVE

With the launch of the European Drinking Water (EDW) industry initiative and the associated strong voice at the EU level, figawa, together with more than 30 other associations, succeeded in ensuring that the harmonisation of hygienic requirements for materials and products in contact with drinking water was taken into account in the revised EU Drinking Water Directive.

Volker Meyer, Managing Director of figawa, is Chairman of the European Drinking Water Initiative.

As an accredited stakeholder, the EDW Initiative is actively involved in the meetings of the Drinking Water Expert Group of the European Commission, where it represents the interests of European manufacturers of products that come into contact with drinking water. The next steps were defined in close cooperation with the member states and the European Chemicals Agency (ECHA). Firstly, all member states have been asked to report their positive lists of materials to ECHA.

Afterwards, a working group established for this purpose will develop the rest of the basics (test methods, updating, procedural requirements).

The European Drinking Water (EDW) industry initiative will closely follow this work and is currently seeking a seat on the ECHA expert group.

The aim is to develop European positive lists of starting substances, compositions or constituents by the end of 2023. By the end of 2025, the groundwork for the European conformity assessment and the final materials should be in place.

For many years figawa has been campaigning for the harmonisation of hygienic requirements for materials and products in contact with drinking water at both European and national level. This is because the lack of uniform hygiene requirements in Europe is inefficient, expensive and creates a barrier to innovation and competitiveness.

Major changes introduced by the EU Drinking Water Directive include:

- New and in some cases stricter limit values for lead, legionella, chlorate and bisphenol A, for example. Other new parameters, such as microplastics, are currently only listed in a watchlist with guideline values. The watchlist is intended to provide further insights for future regulation.

- What has so far only been a recommended risk-based approach to drinking water monitoring (risk assessment) will be made mandatory. The monitoring applies from extraction to treatment to domestic installation. For domestic installations, member states can restrict monitoring to so-called priority building types, such as hospitals or schools.

- For the first time, uniform requirements have been set for materials in contact with drinking water. To ensure uniform implementation, the specific minimum hygiene requirements for materials shall be regulated by implementing acts. Within three years, substances or materials as well as methodologies for testing and accepting starting substances, compositions and constituents will be included in a “European positive list”. Four years after the directive is in force, the European Chemicals Agency ECHA will publish a European positive list of starting substances, compositions and constituents.

- No uniform requirements are specified for treatment substances and processes. The shaping of the specific requirements will thus remain the responsibility of the national authorities of each member state.

figawa is now specifically engaged in shaping the new Article 11 in order to support the European Commission with proposals for the implementation of the now defined requirements. The main objective is to ensure feasibility for the industry, which will have to comply with the requirements in the future.
NATIONAL REQUIREMENTS

At the national level, figawa has campaigned for the implementation of hygienic requirements on products in direct contact with drinking water and has been actively involved in the shaping of regulatory requirements.

As early as April last year, at the beginning of the COVID-19 pandemic, there were calls to provide relief for manufacturers of products in contact with drinking water in light of the enormous impact caused by the measures taken to mitigate the effects of the pandemic. As a result, the German Environment Agency updated the regulation for the transition from the guideline for plastics and other organic materials in contact with drinking water (KTW guideline) to the corresponding assessment criteria (KTW-BWGL), as well as the recommendation for the attestation of conformity of product hygiene suitability for drinking water.

Within the context of the forum of associations set up by figawa, current topics relating to national requirements for materials and products will be discussed in the future so that information can be disseminated quickly and, above all, in a targeted manner along the entire supply chain.

INFORMATION FOR MEMBERS

figawa offers its member companies comprehensive and up-to-date guidance on the implementation of the applicable requirements through its member newsletters and technical articles:
CO₂-free hydrogen is a necessary gaseous fuel for achieving the ambitious national and European climate and energy transition goals. Hydrogen is expected to play a key role in this. In 2020, Germany and the European Union each presented a clear hydrogen strategy.

As an association for companies in the gas and water sectors, figawa has been closely following the political developments around the topic of hydrogen, but also the broader discussion on energy efficiency, for years.

TOPICS ALONG THE HYDROGEN VALUE CHAIN

In figawa, manufacturers along the hydrogen value chain are represented who are active in the gas sector in particular. At figawa, the topic of hydrogen is dealt with across all sectors and examined from production to transport and distribution to use.

figawa Hydrogen Project Group

In order to prioritise the wide range of topics, a project group was created at the beginning of 2020 to examine the technical and regulatory issues in depth and to develop solutions for policy and product compliance.

WORK ON HYDROGEN TECHNOLOGY ACROSS SECTORS

The focus is on identifying key topics according to specialist areas and fields of work along the hydrogen value chain.
**Tasks and topics:**
- Substances and materials - Metallic materials and plastics - Suitability for hydrogen
- H2-readiness of existing products
- Co-operation and contribution to testing principles for products with hydrogen/methane mixtures and pure hydrogen
- Co-operation and contribution to standardisation and regulation
- Development of R&D approaches to answer open questions
- Actor/stakeholder in research and demonstration projects
- Technical communication on hydrogen issues
- Bundling the interests of the figaw, grzi and VHB associations

Among other things, it is actively involved in the advisory committee of the H2-20 project “Hydrogen in gas infrastructure: DVGW/Aavacon pilot project with up to 20% hydrogen feed-in by volume in natural gas (G 201902 H2-20)”. The research project focuses on proving safe feed-in of up to 20 percent hydrogen into a gas distribution network.

**Materials**
Different materials, joining technologies and constructions are used in gas appliances, in domestic and industrial installations and in infrastructure. They can be grouped together and evaluated like this. Experience with gas mixtures from industrial production is readily available and supports the introduction of hydrogen-methane mixtures. The operation of existing plants and equipment in the transition from methane to pure hydrogen must be critically examined. Material investigations of highly stressed steel and other materials are intended to provide a solid technical and scientific basis for developers, designers and users.

**Standardisation strategy**
The basis for the free movement of goods must be created in the interest of all market partners. Certification of products and production sites, qualification of certifiers and training of skilled workers in production, planning, construction and operation must take place within an adapted regulatory framework. Safe, efficient and sustainable use of resources in the operation of equipment and systems are the basis for successful hydrogen use. Standardisation plays an essential role in this, both nationally and at the European level. In a dual-speed strategy, rules must be created in the short term that describe the current state of the art and support the market partners. In the long term, a harmonised CEN standardisation must be developed that covers all aspects of materials, components, equipment and services.

**grzi Hydrogen and Mobility Working Group**
The grzi Hydrogen and Mobility Working Group will address the future use of hydrogen from the perspective of plant engineering for gas pressure controlling plants and gas measurement. For gas measurement, a template for a manufacturer’s declaration for the hydrogen fitness of gas meters was developed and coordinated with the other stakeholders such as the DVGW and the DBI. The template for a manufacturer’s declaration of hydrogen fitness for gas meters is published on the grzi website.
figawa is engaged in the topic of hydrogen on a national and European level and actively cooperates with and in the following organisations and associations:

**NETWORKS**

Since 2015, figawa has been actively involved in the development of biocide legal requirements for device-based in-situ systems for water treatment and water purification.

Represented by Aqua Europa, as an accredited stakeholder (ASO) at the European Commission and the European Chemicals Agency (ECHA), figawa advocates for implementable requirements for in-situ systems.

In the past two years, a variety of advancements and successes have been achieved: be it in the area of equipment standardisation, which can be used as a reference in the authorisation procedure, in the direct cooperation with the relevant European organisations or in the support of dialogue between the various consortia and the corresponding figawa member companies.

Regulation (EU) No. 528/2012 (Biocidal Regulation) regulates the sale, manufacture, supply (provision on the market) and use of biocidal products in the EU. Device-based in-situ systems are also covered by the requirements of this regulation, which affects device manufacturers, distributors and users. The aim of the regulation is to harmonise the provision of biocidal products on the market and their use within the European Union. At the same time, a high level of protection for human, animal and environmental health must be ensured.

STANDARDISATION ACTIVITIES

After extensive preparatory work by figawa, the new Working Group 16 “In situ generating and dosing of biocides for water treatment” was founded in 2020 under CEN TC 164 “Water supply”.

Three separate subgroups there are developing the standards for the devices used to produce active chlorine via salt electrolysis, for ozone generators and for the devices used to produce chlorine dioxide. The secretariat is provided by DIN, financed in part by figawa. The figawa working groups reflect the standardisation activities. The draft of the European standard for ozone was even developed in the corresponding figawa working group.
CONTRIBUTION TO THE REVISION OF THE ECHA GUIDELINES ON IN SITU GENERATED ACTIVE SUBSTANCES

A significant milestone was reached with the development of additional chapters on biocidal products of the ECHA Guidelines “Active substances produced in situ - Risk assessment and implications for data requirements for active substances produced in situ, their precursors and biocidal products”. This document is of particular importance for the national authorities evaluating the applications for authorisation and thus, of course, of utmost importance for the applicants themselves.

A round table was formed under the umbrella of Aqua Europa with representatives from all the consortia involved in organising the authorisation of in situ systems for figawa member companies. This ensured equal participation from all systems in the process.

Prior to this, Aqua Europa had strived for months for industry to be involved in the drafting of this document. In May 2021, there is expected to be another opportunity for ASOs to comment. There, too, Aqua Europa will be ready to support this process with its expertise.

FIGAWA’S COMMITTEE WORK ON THE BIOCIDAL PRODUCTS REGULATION

Thanks to the amazing support from all figawa members, significant clarifications for all in situ systems have been achieved in the past through the figawa Biocide Project. Subsequently, some of the member companies founded a consortium for the approval of the in situ system “Active chlorine generated from sodium chloride by electrolysis”.

Following the end of the Biocide Project, these activities will be bundled in the newly created BPR (Biocidal Products Regulation) Working Group. There, members will be informed about general developments and will have the opportunity to participate in events organised by the European Commission, for example, through Aqua Europa. This working group will also be the national mirror committee of a European working group of the same name at Aqua Europa.

The interests of the chlorine dioxide in situ system are currently being dealt with intensively in an ad hoc working group set up for this purpose. In 2020, for example, a now well-established working contact was developed with the relevant consortium in Spain in order to jointly represent the interests of figawa member companies.
Over the years, several research studies on the energy-efficient heating of industrial buildings have been carried out and have resulted in responses to legislative proposals such as the Building Energy Act (Gebäudeenergiegesetz; GEG) or have contributed to the revision of test specifications such as the ErP Directive.

In this area, figawa focuses in particular on:

- the implementation of the Building Energy Act for industrial building heating systems.
- the inclusion of industrial buildings as an important and independent category of legislation and standardisation.
- solutions that are independent of specific technologies and economical in terms of energy-saving requirements for industrial buildings in Europe and Germany.
- the funding of efficient industrial building heating systems within the framework of the Federal Funding for Efficient Buildings (Bundesförderung für effiziente Gebäude; BEG).
- measures in existing buildings: Energy monitoring, building-specific renovation roadmaps.
- the recognition of gas as a renewable energy.
- the simplification and review of the system standard DIN V 18599.
- practical calculation procedures according to DIN V 18599 and DIN EN 12831 for industrial building heating system.

Since 2009, figawa and its members have been working closely on the regulations and political framework conditions for efficient, environmentally compatible heating of industrial buildings (rooms with a ceiling height of more than four metres are considered to be such buildings).
THE BUILDING ENERGY ACT (GEG) IN FOCUS

In the Building Energy Act (GEG), the law on energy saving for buildings has been structurally redesigned and standardised. When it came into force on 1 November 2020, it merged the Energy Conservation Act (Energieeinsparungsgesetz; EnEG), the Energy Conservation Ordinance (Energieeinsparverordnung; EnEV) and the Act on the Promotion of Renewable Energies in the Heating Sector (Renewable Energies Heating Act; Erneuerbare-Energien-Wärmegesetz, EEWärmeG). The purpose of this law is to use energy in buildings as efficiently as possible, including an increasing use of renewable energies for the generation of heat and cooling.

figawa has closely followed the drafting process of this law and participated in the consultation of associations as well as in the deliberations of the two responsible federal ministries (BMWi and BMU) by submitting a written statement.

As a result, the exception of industrial building zones with a clearance height of more than four metres, which had previously been anchored in a footnote of the EnEV 2016, has now been incorporated into the main text in the front part of the draft. figawa’s proposal, together with other associations, was not just to exempt decentralised heating systems from the obligation to use renewable energies.

In addition, a project outline was developed in cooperation with other associations, which supported the continued development of building energy law in the industrial buildings segment and advanced it in terms of content.

FEDERAL FUNDING FOR EFFICIENT BUILDINGS AS A MEASURE OF THE CLIMATE PROTECTION PROGRAMME 2030

The BEG replaces the existing programmes for the funding of energy efficiency and renewable energies in the building sector - including the CO₂ Building Rehabilitation Programme (Energieeffizient Bauen und Sanierenprogrammes), the Heating Optimisation Programme (Programm zur Heizungsoptimierung; HZO), the Energy Efficiency Incentive Programme (Anreizprogramm Energieeffizienz; APEE) and the Market Incentive Programme for the Use of Renewable Energies in the Heat Market (Marktanreizprogramm; MAP).

As part of the Climate Protection Programme 2030, the Federal Government is continuing to develop support for energy-efficient buildings.

However, the heterogeneous nature of industrial buildings and their relatively small share of the building stock complicates the discussion in committees and events in many respects. In contrast to multi-storey buildings, a variety of different designs can be applied to industrial buildings, depending on what they are used for. Proposals for the planned revision of the BEG are being developed in figawa and introduced into the discussion with experts from the ministries. The proposals are backed up technically and scientifically by experienced institutes.
DIGITAL FIGAWA CALCULATION TOOLS FOR INDUSTRIAL BUILDINGS

Heating Load Tool (EN 12831)
The figawa Gas Infrared Radiant Heating and Decentralised Warm Air Heaters Working Groups developed the “figawa Heating Load Tool” calculation software, which enables and simplifies the application of EN 12831 (Energy performance of buildings – Method for calculation of the design heat load) for industrial building use cases.

During its development, explicit emphasis was placed on the fact that the effect of changes in the building parameters on the resulting heating load can be seen directly.

The newly developed “figawa Heating Load Tool” was completed at the end of 2019 and subsequently tested extensively over a period of two months in order to become familiar with the new calculation approaches of EN 12831 and their effects.

After completion of this test phase, two seminars - distributed nationwide in Dortmund and Rottenburg - were held successfully and exclusively for figawa member companies in February 2020.

Tool for Halls (DIN V 18599)
The figawa Tool for Halls offers two convenient applications: the calculation and selection of a heating system for industrial buildings and the calculation of the energy performance certificate exclusively for industrial buildings.

The figawa Tool for Halls 2015 enables the comparison of decentralised (warm air generators, bright and dark radiators) and central heating technology with the reference building.

Since its introduction in 2010, it has proven its worth on the market thanks to its user-friendliness among architects, engineers and planners.

The 2015 version takes the specifications of the DIN V 18599-5 series of standards issued in 2011 into account, as well as the EEWärmeG and the Energy Conservation Ordinance EnEV 2014.

There are now plans to add an interface to the figawa Tool for Halls in order to record the useful energy heat from external heat sources, such as solar-air systems or heat pumps.
The Construction Products Regulation (CPR), Regulation (EU) No. 305/2011, has been in force since 2013 and has replaced the Construction Products Directive (CPD).

It sets the framework conditions for the European market for construction products. The gas and water industry has therefore supported the provisions of the CPR for a long time. However, new requirements, for example those of the European Green Deal, must now be integrated and their implementation ensured.

The European Commission has therefore started the procedure to revise the CPR. The revision of the CPR could have new effects on product groups of figawa member companies.

In order to guide the revision process, a figawa working group on the CPR was formed.

**FRAMEWORK CONDITIONS FOR THE EUROPEAN MARKET**

**PUBLIC CONSULTATION OF THE EUROPEAN COMMISSION**

As an initial step, the figawa working group discussed and elaborated a position that was submitted in the context of a public consultation of the European Commission on the possible options for a revision of the CPR.

It was quickly agreed that the preferred path was Option A (baseline scenario) proposed by the European Commission. However, there is no proposal for a revision of the CPR, as it is generally considered to be appropriate. Nevertheless, improvements are to be made within the framework of the current rules and available mechanisms in order to be capable of achieving the objective of the free movement of goods in the EU.

**MEMBERSHIP OF THE NATIONAL “PREPARATORY COMMITTEE FOR EC HARMONISATION IN BUILDING” (VAEG)**

The Federal Ministry of the Interior, Building and Community (BMI) set up the VAEG (Vorbereitender Ausschuss EG) to provide a forum for stakeholders in the field of construction products, to follow the activities of the European Commission in this area and to form German opinion, which is represented by the BMI in the committees of the European Commission such as the Advisory Group CPR.

The members of the VAEG are made up of representatives from associations in the construction industry, researchers and the responsible institutes such as the Deutsches Institut für Bautechnik (DIBt).

figawa has been represented in the VAEG since 2015 and represents the interests of figawa member companies there.
The GasQual project is nearing completion against the backdrop of the necessity of a uniform Europe-wide standard for the gas quality of H-gas.

In the member states of the European Union, different specifications exist in the form of national laws, national standards or sets of rules. This can result in barriers to the movement of goods in the European market and impediments to the development of renewable and decarbonised gases. At the same time, changes in gas quality can have an impact on safety, efficiency, durability and emissions.

The CEN standard EN 16726 was published in 2015 without a definition of the Wobbe index. This Wobbe index is an important indicator of gas quality for many applications, but it does not describe all of the changes. In October 2016, in the framework of the Madrid Forum, the Commission expressed its desire to CEN to resume the standardisation process and to develop proposals. The result of a workshop of CEN/TC 234 on the further harmonisation of gas quality was the commissioning of a working group. The working group of experts from infrastructure and application will look at the influence of the established values of H-gas quality along the entire chain. This is to be done on the basis of technical data. From this, recommendations are to be drawn up that will be included in the regular revision of EN 16726. This work has been completed. The publication of the report by the CEN Sector Forum Gas “GasQuality-Study” (CEN SFGas GQS) is expected shortly.

During the discussions, accompanying material collections and additional work, the characteristics and necessities of today’s gas appliances and components were taken into account as much as possible. The discussion on European H-gas standardisation is thus based on a solid foundation of knowledge.

The opening of the common market for new renewable gases and new technologies remains one of the biggest challenges in the gas sector, as the positions of the stakeholders remain diametrically opposed.

In addition to the different interests and experiences or needs of the market participants, the gas producers, transporters, distributors and users, the very diverse set of national regulations and legislation must be reconciled. This is the main challenge facing the entire process of harmonising European H-gas quality. In particular, responsibilities and procedures, information and reporting obligations, as well as the assumption of costs and liabilities must be resolved.

These tasks overlap with the standardisation process and thus make it more difficult to build consensus. Together with figawa’s European partner associations (afecor, EHI, ELVHIS and Farcogaz), we provide support for this process in the associations’ CEN committees and working groups.
In 2020, the German Energy Agency (dena) started work on a new study on the transition to climate neutrality. As a partner in the project, figawa has been actively involved in its creation from the very beginning.

**DENA STUDY “AUFBRUCH KLIMANEUTRALITÄT” (THE DAWN OF CLIMATE NEUTRALITY)**

Back in 2017 and 2018, dena collaborated with more than 60 renowned project partners in a multi-stakeholder process to develop and publish the dena study Integrated Energy Transition. Since this study, new challenges and framework conditions have emerged, such as the goal of climate neutrality in 2050 or the shaping of the recovery processes following the Covid crisis now. In order to develop solutions and recommendations for action to meet these challenges, dena has launched the new dena study Aufbruch Klimaneutralität.

The aim of the new study is to develop relevant figures, data and facts that will form the basis for informed strategic decisions by political and economic actors to achieve climate neutrality in 2050. Moreover, the key findings of the study will be identified and the central policy recommendations for government and business developed in an ongoing dialogue.

Various working groups will work on the specific issues discussed. Figawa participates as a project partner in dena’s Steering Committee, in the Buildings sector module, and in the interdisciplinary modules of Transformation, Europe and the Economy, and Energy Market Design.

In order to discuss and reflect the work within figawa, a figawa project advisory group was launched in mid-2020. Every 14 days, up-to-date information is provided on the results of the work and corresponding comments are prepared and submitted to dena.

In particular, the issues of the hydrogen fitness of products in the heating market and specific industrial building heating topics will be addressed. Energy efficiency in residential and non-residential buildings as well as the sanitation of indoor air and drinking water are further focal points of figawa’s work, in addition to the safe supply of renewable liquid and gaseous energy sources in existing pipeline and tank systems.

The dena study is due to be published in autumn 2021.
“Clean Energy Package for all Europeans” in December 2018.

The stage is now set for a fully comprehensive remote readout of all fiscal energy meters.

Since 25 October 2020, all new installations of hot water and heat meters as well as heat cost allocators must be remotely readable. By 1 January 2027, all hot water and heat meters as well as heat cost allocators must be remotely readable.

By 31 December 2021, the European Commission will carry out an assessment to align the directives for the internal gas and electricity market, with a specific focus on metering, billing frequency and consumption information.

With a focus on the area of household meters, a first step was taken with the DVGW G 694 Code of Practice, as well as the FNN/VDE guideline on the connection of metering devices to SMGWs, in order to enable meter reading across all sectors.

The Federal Ministry for Economic Affairs and Energy (BMWi), in cooperation with the BSI, has launched the so-called “BMWi-BSI Roadmap Process”. Its aim is cross-sectoral standardisation with the SMGW as its central element. This roadmap process includes a dialogue and coordination process with experts, authorities and associations in order to promote the connection of modern metering devices of all types as well as submetering systems to SMGWs.

figawa and the associations incorporated in figawa (grzi, VDDW) are actively involved in the dialogue process through task forces. This includes commenting on documents as well as participating in face-to-face or web meetings and reporting the contents back to the technical working groups. Thanks to the excellent networking of the stakeholders in figawa, DVGW, OMS, it has been possible to successfully represent the points of view so far.

Since the certification of at least three providers of Smart Meter Gateways (SMGW) by the Federal Office for Information Security (BSI), the rollout of smart metering systems is now mandatory. The first step will apply to electricity customers with an annual consumption of 6,000 kWh to 100,000 kWh.

What was initially only in the electricity sector is well on its way to being applied in the gas and heat sectors in the near future. The digitisation of the energy transition will not stop at the gas industry.

As a technical and scientific association, figawa’s main area of activity involves actively participating in standardisation and regulation. The technical expertise of our member companies and current developments in gas and water technology are brought to CEN committees at the European level and to DIN, DVGW and VDI committees at the national level.

figawa offers its member companies access to help the generally recognised rules of technology. The employees of the figawa office are also active as representatives and committee members in a number of key positions in standardisation and regulation in order to represent the interests and views of the gas and water industry.

HELPING TO SHAPE INTERNATIONAL, EUROPEAN AND NATIONAL STANDARDISATION

STANDARDISATION AND REGULATORY WORK – OUR CORE COMPETENCIES

Below are some selected examples of our most important activities:

WATER SUPPLY

CEN/TC 164 “Water supply”

- CEN/TC 164/WG 1 “Piping systems and components outside buildings”
  
  The main focus of this group is the revision of EN 805 “Requirements for water supply systems and their components outside buildings”.

- CEN/TC 164/WG 2 “Piping systems and components inside buildings”
  
  In addition to the regular meetings of the working committee DIN NA 119-07-07 AA Drinking water installation in buildings at the national level, numerous meetings of the working groups responsible for the individual parts of DIN 1988 or EN 806 “Technical Rules for Drinking Water Installation” took place in 2019 and 2020. A German proposal for EN 806-2 (Part 2: Planning) is now being discussed at the CEN level.

A subgroup of CEN/ TC 164/WG 2 has been established in order to prepare a Technical Report on “Water safety inside buildings”. The draft of the Technical Report will be completed in 2021 and submitted to the experts of the member countries for comments.

- CEN/TC 164/WG 14 “Valves and piping components for buildings and installations to prevent contamination from backflow”

This working group deals with the revision of EN 1717 “Protection of drinking water against contamination in drinking water installations and general requirements for safety devices to prevent drinking water contamination caused by backflow”. A first draft is planned for the end of 2021.

- CEN/TC 164 WG 16 “In-situ generating and dosing of biocides for water treatment”
figawa is currently working in three subgroups on the equipment standards for the in situ generation of active chlorine, chlorine dioxide and ozone biocides.

**DIN NA 119-07 FB “DIN-DVGW Joint Drinking Water Division”**

- DIN NA 119-07-07 AA “Drinking water installation”
  
  In addition to mirroring the European activities, the E-DIN 1988-500/-600 national standards were also developed. The draft standard E-DIN 1988-500 “Pressure boosting systems with speed-controlled pumps” was published in autumn. Following the conclusion of the appeals meeting in November 2020, a white print is expected in 2021. The draft standard E-DIN 1988-600 “Drinking water installations in connection with fire extinguishing and fire safety systems” has also been published and will also appear as a white print in 2021.

- DIN NA 119-07-12 AA “Water treatment devices”
  
  This committee deals with the national amendment of the European works in CEN TC 164 WG 13 “Water treatment inside buildings”.

**WELL CONSTRUCTION**

**CEN/TC 451 “Wells and borehole heat exchangers”**

figawa actively supported the founding of the new TC in 2016 and is already financing WG 1 “Wells” for the second year in cooperation with the DVGW. A three-part standard on planning, construction, regeneration and dismantling will be drawn up there. The first part, “Planning”, is expected to be adopted as a draft in 2021.

This group is responsible for drafting the DVGW rules and regulations on the planning, construction and operation of wells for water extraction and groundwater monitoring points. Currently, almost 30 standards and various technical documents are being compiled in various working groups. Furthermore, the national mirror committees of the two European WGs, “Wells” and “Borehole heat exchangers”, are formally subject to this group.

**DIN NA 119-07-03-01 UA “Components and products for drilling technology and well construction”**

This group drafts up the national product standards for all well design materials and for some of the tools required for well construction.

**DECENTRALISED HEATING DEVICES**

**CEN/TC 180 “Decentralised gas heating”**

The standardisation, which is important for decentralised heating systems, was significantly revised by the members of the Working Groups for Warm Air Heaters and Gas Infrared Radiant Heating according to the requirements of the Ecode-

This revision was carried out in cooperation with the European associations EURO-AIR and ELVHIS.

**DIN NA 032-03-01 AA “Domestic, commercial and industrial gas applications”**

This committee mirrors the work of CEN/TC 180 at the national level. figawa is also represented here.
INSTRUMENTATION AND CONTROL FOR HEATING AND VENTILATION TECHNOLOGY

CEN/TC 47/WG 4 “Oil supply systems”

Members of the VHB Liquid Fuels Working Group played a major role in the revision of standard EN 12514 “Components for supply systems for consuming units with liquid fuels”. The English version of this standard was published as BS EN 12514 in 2020. The German version will be issued in 2021.

CEN/TC 58 “Safety and control devices for burners and appliances burning gaseous and/or liquid fuels”

With substantial participation of members of TA VHB, a working group in the German mirror committee of CEN/TC 58 is undertaking a comprehensive investigation of possible strategies for global standardisation under CEN-lead and submitted a report on this. CEN/TC 58 is responsible for approximately 16 functional safety standards. Harmonisation according to the EU Gas Appliance Regulation (GAR) is still being pursued. The adaptation of these standards to hydrogen and hydrogen-methane mixtures is currently being prepared within the framework of a CEN technical rule.

ISO/TC 161 “Control and safety devices for gas and oil burners and gas or oil burning appliances”.

The ISO/TC 161 consists of about 15 standards, many of which are based on CEN/TC 58. Furthermore, standards for gas transmission and distribution infrastructure components of CEN/TC 235 “Gas pressure regulators and associated safety devices for use in gas transmission and distribution” and standards for liquid fuels, formerly CEN/TC 47, are under development by ISO/TC 161. The VHB e. V. and GRZI e. V. working groups are actively supporting this work in the mirror committees of DIN-NHRS and DIN-NAGas.

CEN/CT 234 “Gas infrastructure”, CEN/TC 235 “Gas pressure regulators and associated safety devices for use in gas transmission and distribution”, CEN/TC 237 “Gas meters”.

In the standards of CEN/TCs 234, 235 and 237, the gas infrastructure and its main components as well as the rules for planning, construction and operation are described, insofar as they are not contained in national regulations. The challenge for these TCs lies in the introduction of renewable, decarbonised gases, also called “nonconventional” or “unconventional gases”. Blending hydrogen, biogas or biomethane and rededicating existing gas infrastructure for hydrogen is a comparably complex task. The behaviour of the materials from a functional, safety and metrological point of view must, in part, be newly determined. Planning basics and occupational safety are further key topics. The European working groups are supported by various mirror committees of DIN-NAGas. The experts from the figawa e. V. and grzi e. V. working groups are supporting this together with the European experts in Farecogaz e. V.

OUR WORK AT DVGW

figawa traditionally works very closely with the DVGW and its committees responsible for rules and regulations. This close partnership is defined and practised in a spirit of partnership based on a corresponding cooperation agreement. In the development of technical regulations, figawa representatives are represented in the steering committees, many technical committees and some project groups. figawa also helps shape developments in the industry and advises on future directions through its participation in the research advisory board and the advisory board of DVGW CERT GmbH.
Research forms an important foundation for figawa's technical and scientific work. There is a particular focus on applied and pre-standardisation research. Based on technical and scientific issues, for example in the context of materials testing, figawa initiates research projects with a practical focus together with our member companies and various research partners or jointly creates the basis for shaping the regulatory framework in pre-standardisation research projects.

**figawa plays the role of:**
- initiator of applied and pre-standardisation research projects to answer technical and scientific questions,
- stakeholder/project partner/associate partner in research and collaborative projects - technical and scientific work,
- cooperation partner in the context of research, business and standardisation,
- transfer partner - for standardisation and
- communication and networking partner and therefore interface between research and business - communication and dissemination from research to the professional public.

In numerous research projects with a focus on practical applications for the gas and water sector, figawa works together with, among others, the Bundesanstalt für Materialprüfung (BAM) in Berlin, Gas- und Umwelttechnik GmbH (DBI GUT) in Freiberg and Leipzig, the DVGW-Forschungsstelle at the Engler-Bunte-Institut in Karlsruhe, the Gas- und Wärme-Institut Essen e. V. (GWI), the Institut für Hygiene und Öffentliche Gesundheit of the GeoHealth Center at the University of Bonn (IHPH), the ITG Institut für Technische Gebäudeausrüstung Dresden Forschung GmbH, and the TZW: DVGW – Technologiezentrum Wasser in Karlsruhe.
TEST TRIAL TO VALIDATE THE CONVERSION FACTORS ACCORDING TO THE “ELASTOMER GUIDELINE”

In 2020, Figawa was able to successfully complete a joint test trial with the German Environment Agency to validate the conversion factors for elastomeric materials. In these test trials, which were carried out by the TZW in Karlsruhe, it was confirmed that the revision of current hygienic requirements in the Elastomer Guideline makes sense.

The results have already been evaluated by the competent body at the German Environment Agency and will now be incorporated into the future national requirements.

THE “TOXBOX PROJECT”

In cooperation with the Verein für Rohrleitungssysteme in der Haus-technik e. V. (VRH), the Kunststoffrohrverband e. V. (KRV), The European Plastic Pipe and Fittings Association (TEPPFA), the Joint drinking water regulatory group of PlasticsEurope and the Cefic Sector Group FCA (Food contact additives), we initiated the research project “MigWa2”.

The project partners have a common goal to validate a testing strategy based on established bioassays for the evaluation of migration waters from organic materials. It is based on the testing strategy from the predecessor project “bioassay-based test strategy to determine risk potentials of migration waters - Mig-Wat”, which allows the identification of toxicological hazard potentials.

The research partner and executing agency is the German Environment Agency (UBA). The aim is for the testing strategy to be used in future material tests. Initial results are expected at the end of 2021.

MATERIALS HYDROGEN SUITABILITY FOR CONTROLS

In cooperation with the BAM, an R&D project with the aim of determining the hydrogen compatibility of materials for the pre-standardisation baseline was initiated in CEN/TC 58.

In this project, the suitability of materials for controls for different gas compositions (from: 0 to 20%, 50% ± 5% proportion of hydrogen in natural gas) and for pure hydrogen in a wide temperature range will be investigated.

O-rings, valve discs and diaphragms made of different materials (e.g. NBR, silicone, Viton) with different dimensions as well as possible critical manufacturing processes (e.g. vulcanisation) will be considered.

The usual metallic materials of the pressure-loaded and statically or dynamically loaded components are to be considered in the pressure range up to 25 bar.

A survey of controls manufacturers forms the basis for the materials to be researched. The implementation will be carried out within the framework of a literature study with subsequent laboratory testing.

The data and characteristic values obtained are to be incorporated into standardisation projects and used for non-manufacturer-specific parameters.
TRAINING FOR WELL CONSTRUCTION AND DRINKING WATER TANK RESTORATION

In recent years, figawa Service GmbH has continued to successfully conduct training courses in accordance with DVGW worksheets W 120 and W 316:

- DVGW W 120 “Qualification requirements for the fields of drilling technology, well construction, remediation, restoration and dismantling”
- DVGW W 316 “Qualification requirements for specialist companies for planning, construction, repair and improvement of drinking water tanks”

The qualification of experts through figawa ensures the high quality of the German water supply. figawa has been active in this role as an independent training organiser for specialist companies for years.

IN 2020, THE TRAINING ROOMS HAD TO REMAIN EMPTY. DUE TO THE COVID-19 PANDEMIC, COURSES WERE SWITCHED TO ONLINE TRAINING.

As a technical and scientific association, the preparation and provision of technical information is a core task for our member companies. In addition, we offer professional training for experts in our sector.
At the end of 2020, figawa Service GmbH began conducting training courses in accordance with DVGW W 316 as an online event due to the ongoing COVID-19 pandemic. For this purpose, we invested in a professional training system that allows the participants to take the necessary exams digitally.

Thus figawa is prepared for the future and has made an important investment towards a possible digitalisation of the existing and future training concepts. This means that figawa can remain flexible even after the COVID-19 pandemic and can adapt to the needs of each industry.

**INSPECTION CHECKLIST FOR CHLORINATORS**

On the initiative of the figawa Working Group Chlorine and Chlorine Compounds, an interactive checklist for chlorination plants was created in 2020, which is available as a free download on the german figawa website:

https://figawa.org/themen/wasser-aufbereitung/pruefliste-chlorungsanlagen

The checklist combines the requirements for system testing of DIN 19606 “Chlorinators for water treatment – Technical requirements for equipment, installation and operation” (2020-01) and the relevant regulations and information of e.g. by German statutory accident insurance (DGUV). Based on the requirements, individual inspection points were formulated that can be worked through as a checklist. Two different checklists were created for pressure and vacuum systems.
4 ORGANISATION
MEMBERSHIP STATISTICS

Membership distribution (as of January 1, 2021)

NEW MEMBERS 2019 - 2020

Stanley Electric GmbH
IDEXX Laboratories
Luces Ingenieure Ingenieurgesellschaft für technische Gebäudeausrüstung mbH
glm-Wassertechnik GmbH
AQUAKORIN Wasser-Technologie Peter Schmidt e. K.
WimTec Sanitärprodukte GmbH
ENFIDO GmbH
Aqua free GmbH
Rüdiger Werner Consulting
i3 Membrane GmbH
Compounds AG
NDW Neue Duschenwelt AG

VDDW  Verband der Deutschen Wasser- und Wärmezählerindustrie e. V.
GRZI  Verband der Deutschen Gasdruck-Regelgeräte- und Gaszähler-Industrie e. V.
VHB   Verband der Hersteller von Bauelementen für wärmetechnische Anlagen e. V.
## COMMITTEES AT FIGAWA

### SECTOR GROUP GAS PRODUCTION, GAS STORAGE AND GAS DISTRIBUTION

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Vice Chairman</th>
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<tbody>
<tr>
<td>Peter Rathmann</td>
<td>Dipl.-Ing. Günter Klein</td>
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<td>nPlan engineering GmbH</td>
<td>RATEC GmbH</td>
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**Working Group Pipe Network Inspection**

<table>
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<tr>
<th>Chairman</th>
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<tr>
<td>Andreas Schweitzer</td>
<td>Dipl.-Ing. Kai Kornemann</td>
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<tr>
<td>Hermann Sewerin GmbH</td>
<td>Dräger &amp; Howarde GmbH</td>
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### SECTOR GROUP GAS PRESSURE CONTROL AND GAS MEASUREMENT

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<tr>
<td>Thorsten Dietz</td>
<td>Gas Pressure Control</td>
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<td>RMG Messtechnik GmbH</td>
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**Working Group Plant Construction**

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<tr>
<td>Olaf Steinbach</td>
<td>Natural Gas Filling Stations</td>
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<td>CeH4 technologies GmbH</td>
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### SECTOR GROUP GAS UTILISATION

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<thead>
<tr>
<th>Chairman</th>
<th>Vice Chairman</th>
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<tr>
<td>Prof. Dr.-Ing. Friedhelm Schröder</td>
<td>Christop Schreckenberg</td>
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<td>Schwank GmbH</td>
<td>Vaillant GmbH</td>
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**Technical Commission**

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Working Group Radiant Gas Heaters</th>
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<tr>
<td>Ralf Schröder</td>
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<td>AFRISO EURO INDEX GmbH</td>
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**Working Group Liquid Fuels**

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<tr>
<td>Dr.-Ing. Martin Bergemann</td>
<td>VHB</td>
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<td>Siemens AG</td>
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### SECTOR GROUP EXHAUST SYSTEMS

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<tr>
<td>Klaus W. Jesse</td>
<td>Maxitrol GmbH &amp; Co. KG</td>
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The current structure can be found at [https://figawa.org/en/figawa/organisation/](https://figawa.org/en/figawa/organisation/)
### SECTOR GROUP WATER ABSTRACTION

**Chairman**  
Dipl.-Ing. Christoph Harms  
GWE pumpenboese GmbH

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### SECTOR GROUP WATER TREATMENT

**Chairman**  
Dipl.-Ing. Hans Willbold  
Grünebeck Wasseraufbereitung GmbH

**Working Group Physico-Chemical Water Treatment**  
Chairman  
Dipl.-Chem. Uwe Fischer  
(until 12/2020)  
Rheinkalk GmbH

**Working Group Membrane Technology**  
Chairman  
Dr. Florian Schmitt  
i3 membrane GmbH

**Working Group Ozone**  
Chairman  
Dr. Tim Pühmeier  
Xylem Water Solutions Deutschland GmbH

**Working Group UV Water Treatment**  
Chairman  
Dr. Matthias Albert  
Grünebeck Wasseraufbereitung GmbH

**Working Group Swimming Pool Water Treatment**  
Chairman  
Dipl.-Ing. Jürgen Elgg  
Wassertechnik Wertheim GmbH & Co. KG

**Working Group Chlorine and Chlorine Compounds**  
Chairman  
Thomas Beutel  
Lutz-Jesco GmbH

**Vice Chairman**  
Georg Csontos  
Evoqua Water Technologies GmbH

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### SECTOR GROUP WATER UTILISATION

**Chairman**  
Dipl.-Ing. Tino Reinhard  
Geberit RLS Beteiligungs GmbH

**Vice Chairman**  
Thomas Kempf  
Hansa Armaturen

**Working Group Elastomers**

**Chairman**  
Dr. Ralf Söcknick  
Grünebeck Wasseraufbereitung GmbH

**Vice Chairman**  
Dr. Ralph W. Bergmann  
BWT Wassertechnik GmbH

**Working Group Domestic Water Treatment**

**Chairman**  
Marcus Pikarek  
WaterControl AG

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### SECTOR GROUP WATERMETERING

**Chairman**  
Dipl.-Kfm. Harald Jöllenbeck  
Allmess GmbH

**Technical Committee Water Meters**

**Chairman**  
Dipl.-Ing. Thomas Pühler  
E. Wehrle GmbH

**Technical Committee Heat Meters**

**Chairman**  
Arno Sammler  
Landis + Gyr GmbH
### SECTOR GROUP PIPES AND PIPING ACCESSORIES

<table>
<thead>
<tr>
<th>Chairman</th>
<th>Vice Chairman</th>
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</thead>
<tbody>
<tr>
<td>Dipl.-Ing. Jörn Winkels</td>
<td>Dipl.-Ing. Georg Taubert</td>
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<tr>
<td>Mannesmann Line Pipe GmbH</td>
<td>Geberit International AG</td>
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Working Group Fittings in Water Distribution

### SECTOR GROUP VALVES AND PUMPS

### SECTOR GROUP WASTEWATER TRANSPORT
FROM THE HONORARY CHAIRS

On behalf of all members, we would like to thank all of the figawa technical experts from our member companies for their willingness to work so hard for figawa.

**Dr Tim Pühmeier**, Xylem Water Solutions Deutschland GmbH, was elected as the new chairman of the Ozone Working Group at the joint meeting of the Ozone and Swimming Pool Water Treatment Working Groups on November 19, 2019. He succeeds his colleague Dr Achim Ried, who led the working group for 13 years with enormous commitment and a high level of professional expertise.

**Uwe Fischer**, chairman of the Working Group on Physico-Chemical Water Treatment, is retiring and thus also stepping down as chairman at the end of the year. He has held this position since 2013.

Mr Fischer has been active for decades, not only in figawa, but also in numerous national and European standardisation committees. For example, he worked for many years in the PKs Sorption, Stabilisation and Filtration of the DVGW, in the standardisation committee NA 119-07-13 Treatment Materials and Plants at DIN. In Europe, he was involved in TG 5 “Lime products” and as convenor of TG 9 “Filter materials” under WG 9 of CEN/TC 164 “Water supply”.

At the meeting of the Working Group on Water Analysis on January 23, 2019, the vice chairman, **Dr Rudolf Becker-Kaiser**, retired.

Since 2013, Dr Becker-Kaiser has contributed his profound expertise to figawa on a voluntary basis for Eurofins NDSC Umweltanalytik GmbH and was involved in the founding of what was then still known as the Working Group on Drinking Water Analysis.

**Thomas Beutel** (Lutz-Jesco GmbH) was elected as the new chairman of the Working Group “Chlorine and Chlorine Compounds” on April 16, 2019. He succeeds **Ulrich Stemick** (Grundfos Water Treatment GmbH), who stepped down after 15 years.

**Georg Csontos** (Evoqua Water Technologies GmbH) took over two offices. He was elected vice chairman of the Working Group “Chlorine and Chlorine Compounds”. In addition, the members of the newly founded figawa Working Group “Analytical and Measuring Instruments” elected him as their chairman on June 4, 2019.

The meeting on November 3, 2020, bid farewell to the long-standing chairman of the Working Group on Membrane Technology, **Dr Herbert Bendlin**, who began his many years of dedication as chairman of the Working Group in 1993.

Dr Bendlin will continue to support the Working Group as a guest with his expertise and experience.

**Dr Florian Schmitt** (i3 membrane GmbH) was elected as the new chairman of the Working Group on Membrane Technology during the meeting.
BODIES

PRESIDIAL BOARD IN THE ELECTORAL PERIOD 2019 TO 2021

President:
Dr.-Ing. Günter Stoll
Grünbeck Wasseraufbereitung GmbH
89420 Höchstadt a. d. Donau

Vice President:
Dipl.-Ing. Jörn Winkels
Mannesmann Line Pipe GmbH
57074 Siegen

Presidial Board Members:
Dipl.-Ing. Karl-Heinz Backhaus
Vaillant GmbH
42859 Remscheid

Dipl.-Ing. Willi Hecking
Hans Sasserath GmbH & Co. KG
41352 Korschenbroich

Dipl.-Ing. (BA) Karl Dungs
Karl Dungs GmbH & Co. KG
73660 Urbach

Prof. Dr.-Ing. Friedhelm Schlößer
Schwank GmbH
50735 Köln

The newly elected Presidial Board following the election at the General Assembly on May 19, 2021, can be found at www.figawa.org.
MANAGING BOARD

Chairs of the Sector Groups:

Gas production/gas storage
Peter Rathmann
nPlan engineering GmbH
29229 Celle

Gas utilisation
N. N.

Gas pressure control/gas measurement
Thorsten Dietz
RMG Messtechnik GmbH
35510 Butzbach

Exhaust systems
N. N.

Water metering
Dipl.-Kfm. Harald Jollenbeck
Allmess GmbH
23758 Oldenburg (i. H.)

Water abstraction
Dipl.-Ing. Christoph Harms
GWE pumpenboese GmbH
31228 Peine

Water treatment
Dipl.-Ing. (TU) Hans Willbold
Grünbeck Wasseraufbereitung GmbH
89420 Höchstädt a. d. Donau

Water utilisation
Dipl.-Ing. Tino Reinhard
Geberit RLS Beteiligungs GmbH
40764 Langenfeld

Wastewater treatment
N. N.

Pipes and piping accessories
Dipl.-Ing. Georg Taubert
Geberit International AG
8645 Jona, Schweiz

Valves and pumps
N. N.

Wastewater transport
N. N.
OTHER MEMBERS OF THE MANAGING BOARD

(Experts of gas and water technologies)
in the electoral period 2019 to 2021:

Gas
Klaus W. Jesse
Maxitrol GmbH & Co. KG
06502 Thale

Lutz Krischausky
Wolf GmbH
84048 Mainburg

Heiko Schneider
GoGas Goch GmbH & Co. KG
44265 Dortmund

Water
Dipl.-Ing. Ulrich Stemick

Dipl.-Betriebsw. (BA) Andrea Strobel
HYDRO-ELEKTRIK GmbH
88214 Ravensburg

Piping
Dipl.-Ing. Werner Schulte
Viega GmbH & Co. KG
57439 Attendorn

Gas/water
Marc Vincenz
GAS-Control GmbH/
WATERcontrol AG
30179 Hannover

Regular guests of the Managing Board
with an advisory vote:

Prof. Dr. Gerald Linke
DVGW – Deutscher Verein des
Gas- und Wasserfaches e. V.
53123 Bonn

Dipl.-Ing. (FH) Fritz Eckard Lang
Rohrleitungsbauverband e. V. (rbv)
Lang GmbH Bauunternehmen seit 1891
OFFICE

Bundesvereinigung der Firmen
im Gas- und Wasserfach e. V. - figawa
Marienburger Straße 15
50968 Cologne

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Fax: +49 (221) 37668-64

www.figawa.org

Managing Director:
Dipl.-Ing. Volker Meyer

Manager:
Section Gas
Dipl.-Ing. Harald Petermann

Technical officer:
Section Gas
Dipl.-Ing. Werner Born

Section Water
Lars Neveling, M.Sc.

Section Water
Dipl.-Ing. (FH) Aharon Weiß, M.Sc.

Section Gas/Water
Dipl.-Ing. Michael Reinders

Secretariat/member administration:
Executive Management
Section Water
and Piping
Else Kreutz

European Associations
Section Gas
Dipl.-Kffr. (FH)/EBS Annette Hoppe

Section Gas
Krystyna Fischer-Saemann

Organisation:
Monika Adams

Project management:
Carina Janich

Accounting:
Anja Schulz

Communications manager:
Hanna Seeck