DVGW at a glance

Detlef Jagodzinski/Hiltrud Schülken
DVGW, Bonn 2014-04-09
DVGW at a Glance

- 13,500 members
- Headquarters in Bonn
- Offices in Berlin, Brussels and Sarajevo
- 8 research units
- 8 state offices
- 9 regional groups
- 63 district groups
- More than 230 committees
- More than 400 employees
Activities

Safety
Environmental protection
Hygiene
DVGW – Membership Structure

Gas network operators, water supply companies: 1.903

Authorities, institutions, organisations (AIOs): 252

Manufacturers: 1.386

Individual members: 9.942

Total membership: 13.483
### DVGW shares and turnover

<table>
<thead>
<tr>
<th>Company</th>
<th>Percentage</th>
<th>Turnover</th>
</tr>
</thead>
<tbody>
<tr>
<td>DVGW e.V. (€ 40 million *)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>wvgw Verlag (+ EKS) GmbH (40,5%)</td>
<td></td>
<td>€ 12 million</td>
</tr>
<tr>
<td>DVGW CERT GmbH (100%)</td>
<td></td>
<td>€ 4.5 million</td>
</tr>
<tr>
<td>DBI GUT GmbH (100%)</td>
<td></td>
<td>€ 2.2 million</td>
</tr>
<tr>
<td>DBI Gastechnisches Institut gGmbH (100%)</td>
<td></td>
<td>€ 1.4 million</td>
</tr>
<tr>
<td>IWW Mühlheim (3%)</td>
<td></td>
<td>€ 5.5 million</td>
</tr>
<tr>
<td>DVGW Service &amp; Consult GmbH (100%)</td>
<td></td>
<td>€ 1.4 million</td>
</tr>
<tr>
<td>DVGW SDV GmbH (100%)</td>
<td></td>
<td>€ 2.2 million</td>
</tr>
</tbody>
</table>

*) Including:
- Codes and standards
- Training
- Research and participation management
- Gas research unit at Engler Bunte Institute
- Water research units at TZW Karlsruhe, Dresden and Hamburg

**Total (p.a.): € 82 million**
Statutes of DVGW

• Purpose and objectives of association
  – Technical and technical/scientific support for the gas and water industries, focussing on safety, hygiene and environmental protection
  – The association also assumes responsibilities in other areas of the energy sector in connection with these objectives

• The non profit association is economically independent and politically impartial.

• The activities of DVGW relieve the burden on the state.

• The association does not represent commercial interests.
1859  Founded in 1859 by gas experts
1870  Unification with drinking water experts
1876  Extension to wastewater (see also 1948)
1885  DVGW establishes BGFW

1926  Establishment of FIGAWA
1947  Establishment of BGW (now BDEW)
1948  Establishment of ATV (now DWA)

2000  DVGW merges with DELIWA
Income Structure of Association (without shares)

Contributions incl. R&D: 31%

Other income: 4%

Sales revenues (codes of practice, training, research, testing, etc.): 65%

Total: €40 million
Activities

- Safety
- Environmental protection
- Hygiene

Codes and Standards

Advice for Members

Research and Development

Testing and Certification

Professional Training

Communication
System of Technical Self-Regulation

Parliament defines General protection objectives

refers to General clause

Industry generally accepted rules of technology
Setting technical rules and standards in Germany

Standardisation of products
Normenausschuss Gastechnik (NAGas)
im DIN Deutsches Institut für Normung e.V.

Functional standardisation
Deutsche Vereinigung des Gas- und Wasserfaches e.V.

DVGW Set of Technical Rules
### Committee Structure: Gas

#### SC Gas Supply
- TC Gas transmission
- TC Compressor stations
- TC Gas distribution
- TC Gas plants
- TC Gas metering and accounting
- TC Gas valves
- TC Materials and welding
- TC Dispatching
- TC Underground storage
- TC External corrosion

#### SC Gas Utilisation
- TC Gas fuels
- TC Domestic, commercial and industrial gas utilisation
- TC Natural gas stations and vehicles
- TC Gas Installations
- TC Components and auxiliary supplies
- TC DVGW/DVFG Liquefied petroleum gas

DVGW represents the interests of NAGas within DIN

---

**From production to use**
# Committee Structure: Water

<table>
<thead>
<tr>
<th>SC Water management, Water quality, Waterworks</th>
<th>SC Water supply systems</th>
<th>SC Water usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC Catchment</td>
<td>TC Organisation and Management</td>
<td>TC Drinking Water Installations</td>
</tr>
<tr>
<td>TC Groundwater and Resources Management</td>
<td>TC Water Storage</td>
<td>TC Water Measurement</td>
</tr>
<tr>
<td>TC Water Quality</td>
<td>TC Supply System Components</td>
<td>TC Internal Corrosion</td>
</tr>
<tr>
<td>TC Water Treatment</td>
<td>TC Water Transport and Supply</td>
<td>TC Valves and Equipment</td>
</tr>
<tr>
<td>TC Systems Engineering</td>
<td>TC Geo Information Systems</td>
<td>TC Pipes and Joints</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TC Hygiene in Drinking Water Installations</td>
</tr>
</tbody>
</table>

**From the source to the tap**
## DVGW Standardisation Process

<table>
<thead>
<tr>
<th>Step</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>DVGW Technical Committee (TC), including experts from all gas and water industry bodies concerned. Prepares a first “yellow” draft.</td>
</tr>
<tr>
<td>2.</td>
<td>Specialists can submit objections to DVGW within three months. Objections are considered by the TC and the yellow draft is revised.</td>
</tr>
<tr>
<td>3.</td>
<td>Approval by the DVGW Executive Board. “White” version.</td>
</tr>
<tr>
<td>4.</td>
<td>If a revision is necessary, the procedure is repeated.</td>
</tr>
</tbody>
</table>
• Practical work in the gas and water industries is based on DVGW codes of practice.
• The DVGW codes of practice offer companies the security they need for planning and provide a secure legal foundation.
• DVGW codes of practice are recognised as generally accepted rules of technology and as the state of the art in the Energy Industry Act and the Drinking Water Ordinance.
DVGW – Integrated in European and International Standardisation

- TC 69
- CEN/TC 234
  Secretariat: NAGas
  Gas infrastructure
  TC 235
  TC 236
  TC 326

- CEN/TC 164
  Water supply
  TC 294
  TC 155

- ISO TC 193
  Natural Gas

- ISO TC 223
  Societal Security

- ISO PC 251
  Asset Management

- ISO TC 224
  Service activities relating to drinking water supply systems and wastewater systems
Activities

- Safety
- Environmental protection
- Hygiene

- Codes and Standards
- Advice for Members
- Research and Development
- Testing and Certification
- Communication
- Professional Training
DVGW trains more than 25,000 participants per year.
- Key events: gat, wat, Diskurs, EFG
- DVGW energie | wasser praxis – 63,000 readers per issue
- Specialist information – printed, digital and online
- Participation in national and international trade fairs
- www.dvgw.de
Activities and schemes for students

- Gas and water study prizes
- Student mentoring programs
  - Free-of-charge participation in gas and water industry conferences
- DVGW university days
- Links to almost all German universities
- DVGW energie|wasser-praxis
- www.study-ing.de
- Membership charge for students only €10 per year
- Co-operations with universities
Activities

- Safety
- Environmental protection
- Hygiene

- Codes and Standards
- Advice for Members
- Research and Development
- Testing and Certification
- Professional Training
- Communication
Research and Development

Funding for DVGW research institutes
Total: €11.8 million

- Funding by government bodies: €1.2 million
- Project funding from own sources: €4.3 million (including innovation campaign)
- Third-party project funding: €6.3 million
Research and Development – Regional Clusters

- DVGW-Forschungsstelle an der TU Hamburg-Harburg
- Gaswärme-Institut (GWI) Essen
- IWW Institut für Wasseraufbereitung Mülheim
- DVGW-Technologiezentrum Wasser (TZW) Karlsruhe
- DVGW-Forschungsstelle am Engler-Bunte-Institut des KIT Karlsruhe
- DVGW-Landesgruppe NORD Hamburg
- DVGW-Landesgruppe NRW Essen
- DVGW-Landesgruppe HESSEN Mülheim
- DVGW-Landesgruppe OST Leipzig
- DVGW-Landesgruppe BADEN-WÜRTTEMBERG Karlsruhe
- DVGW-Landesgruppe BAYERN Freiberg
- DBI Gas- und Umwelttechnik Leipzig
- Außenstelle des DVGW-TZW Dresden
- DBI Gastechnologisches Institut Freiberg
Innovation und Nachhaltigkeit – Forschungsprogramm Wasser

Mit Gas-Innovationen in die Zukunft!
Activities

- Safety
- Environmental protection
- Hygiene

Other activities include:
- Advice for Members
- Codes and Standards
- Research and Development
- Communication
- Professional Training
- Testing and Certification
DVGW establishes the technical specifications for testing and moved the activity of testing and certification in a separate company

DVGW CERT GmbH in the gas and water industry:

> 6,869 certified products
> 1,457 certified specialist companies
> 179 certified management systems
> 178 certified DVGW experts
• Allocation of code numbers for participants in German gas market
• Consultancy services for the implementation of DVGW codes of practice
• Coordination of tests for TSM technical safety management
• Coordination of tests under GW 301
• Condition forecasts for pipeline systems
• ER|EM|ES responsibility management
• Consultancy services for biogas treatment and injection
• IT services
• Events
Co-operation in setting technical rules for energy systems

Energy facility

- Hydrogen, Electrolyses, Synthetic natural gas
  Co-operation: DVGW, VDE/FNN, DWV, BEE, BWE...

- Household, commerce, industry
  Co-operation: DVGW, FIGAWA, VDMA, BHKS, BWP, ZVSHK, ZIV, ...

- Information and communication technology
  Co-operation: DVGW, VDE/DKE/FNN, AGFW, DWA, BDEW

Storage of excess electricity as gas

Energy facility Grids
  Co-operation: DVGW, VDE/FNN, AGFW

Production of lacking electricity from gas by CHP, using lost heat

Heat grid

Gas grid, - storage

Energy facility Biogas
  Co-operation: DVGW, DWA, FvB, ...

Energy facility Power/Heat production
  Co-operation: DVGW, AGFW, B.KWK, ...

Energy facility storage
  Co-operation: DVGW, WEG, ...

Water industry
  Protection of resources, quality monitoring of raw and drinking water,
  Adaptation of treatment technology,
  Energy production from raw and drinking water

Power grid

In preparation

BMWi, BNetzA, BMU, BMI

DVGW
Forum of EU COM, ACER, ENTSOG and all stakeholder

UNECE
Guidance for authorities of EU and non-EU countries – partly technical
European membership and/or co-operation in Gas

**Members:**
- Austria, ÖVGW
- Bosnia-Herzegovina, IGT
- Hungaria, div. Authorities
- Latvia, Latvijas Gaze
- Poland, Stilbos
- Romania, ANRE
- Russia, div. Associations
- Slovakia, SGOA
- Slovenia, DIZ GPZ
- Switzerland, SVGW

**Active co-operation**
- Albania, METE
- Croatia, Companies/Authority
- Czech Republic, CGA
- Macedonia, GAMA + Authorities
- Serbia, Srbjagas
- Estonia, Eestii Gaasiliit

Coordination Committee South-East-Europe (Bosnia, Serbia, Slovenia, Macedonia)

**INOGATE**

- International co-operation is mainly covered by IGU and ISO participation.
Thanks for your attention!

Detlef Jagodzinski
Departmental Manager Gas transmission/distribution infrastructure
Phone: +49 228 9188-904 and -905
E-Mail: jagodzinski@dvgw.de

Hiltrud Schülken
Departmental Manager International Relations Gas
Phone: +49 228 9188-905
E-Mail: schuelken@dvgw.de

DVGW - Deutscher Verein des Gas- und Wasserfaches e.V.
Technisch-wissenschaftlicher Verein
Josef-Wirmer-Str. 1-3, 53123 Bonn
Internet: www.dvgw.de
DVGW Technical Safety Management – Implementation of gastechnical framework