



**EWA**

**The European Water Association  
Yearbook 2003**

3<sup>rd</sup> edition as of 16 July 2003

Additional copies and updated editions (only non-member versions) can be found on the EWA homepage at <http://www.EWAonline.de/>

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EWA Secretariat:

Dr.-Ing. Sigurd van Riesen - Secretary General  
Dipl.-Ing. Kirsten Overmann - Technical Assistant  
Alice Wilhelm - Secretariat  
European Water Association  
Theodor-Heuss-Allee 17  
D-53773 Hennef  
Phone: +49 (0)2242 872-189  
Fax: + 49 (0)2242 872-135  
Email: [ewa@atv.de](mailto:ewa@atv.de)  
[www.EWAonline.de](http://www.EWAonline.de)

**European Water Association (EWA)  
Yearbook 2003**

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## **The European Water Association Presentation**

### **The European Water Association – more than 20 years for clean water for Europe**

The European Water Association (EWA) was founded on 22 June 1981, at that time still named European Water Pollution Control Association (EWPCA), as an independent non-governmental and non-profit making organisation dealing with the management and improvement of the water environment. Delegates from eleven national professional associations came together on the International Trade Fair for Wastewater and Waste Disposal (IFAT) in Munich, representing associations dealing with water protection issues from Austria, Belgium, Denmark, West Germany, Finland, France, Great Britain, Italy, the Netherlands, Sweden, and Switzerland. They felt that in the light of a uniting Europe there was a need for the exchange of national associations working in this sector. What had been informal irregular meetings until then entailed subsequently a process that still goes on in terms of growing membership and the number of organised projects and events. The scope of the association was also enlarged in 1999 with the change of name from "European Water Pollution Control" to "European Water Association".

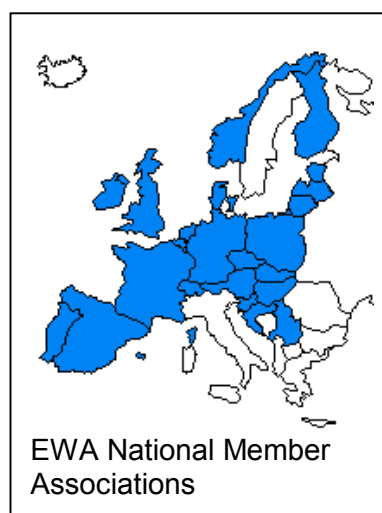
Given the origin of the founding organisations, the Association always transcended the borders of the European Union and its predecessors. The membership increased continuously in the years after the foundation. Contacts to associations from Central and Eastern European Countries existed from the very beginning of the Association's work; full membership was however much eased after the fall of the Iron Curtain. Firms were also included in the organisation as Corporate Members.

Today the European Water Association (EWA) is an independent non-governmental and non-profit making organisation dealing with the management and improvement of the water environment. It is one of the major professional associations in Europe that covers the whole water sector, wastewater as well as drinking water and water related waste, providing best practice and best science. With member associations from nearly all Central and Eastern European Countries, it not only includes most of the current European Union member states, Norway, and Switzerland, but also most of the future EU members from Central and Eastern Europe.

Besides the information of its members on EU legislation and standardisation, the aim of the association is to provide a forum for the discussion of key technical and policy issues. This is done by international conferences, workshops and meetings, special working groups for experts and also publications. Through this exchange of knowledge the association intends to contribute to a sustainable water management: a safe water supply and the protection of water and soil.

The EWA has established close contacts to the European Commission (DG Environment), the European Committee for Standardization (CEN), the European Environment Agency (EEA) and the European Parliament.

The EWA consists today of about 30 European national associations representing professionals and technicians for wastewater and water utilities as well as consultants, and several firms and enterprises as corporate members. The association thus represents about 55,000 professional individuals working in their national associations in a broad field of water management.



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### **The Work of the Standing Committees**

From the very beginning the Association considered the exchange between professional experts as its main targets. Through this exchange of knowledge, the Association intends to contribute to a sustainable water management: a safe water supply and the protection of water and soil. This resulted in the organisation of more than 50 conferences and workshops taking place all over Europe and covering a very broad range of water related topics such as European legislation (Water Framework Directive, Sewage Sludge Directive etc.), technical questions as for example the significance of small wastewater treatment plants in rural areas and also integrated approaches. Regular events are the International Trade Fair for Wastewater and Waste Disposal (IFAT) in Munich and Aquatech in Amsterdam, which both host conferences and symposia organised by the European Water Association. With the growing number of members from Central and Eastern European countries, the interest for events dealing with water protection issues in the light of EU accession grew respectively.

However not only conferences and reports thereof were and are the output of the Association's work, but also publications such as the study "The Comparability of Quantitative Data on Waste Water Collection and Treatment" and the study "Urban Wastewater Projects - A Layperson's Guide" which was realised together with the European Environment Agency (EEA). It met very high interest and was translated into various European languages.

All this work is achieved through the different Committees and Working Groups that were established from the very beginning. They are based on the voluntary work of experts coming from the different National Member Associations and working together on various actual subjects from the water field.

#### **The Communication Committee (CC)**

Communication Committee (CC) is the new name of the former Editorial Committee (EdC) whose main job was the production of the printed journal "European Water Management Online". The committee changed its name due to a restructuring of the Association's communication strategy. Its main task is now the co-ordination of the newly established online journal "European Water Management Online" which is directly and free of charge accessible via EWA's homepage at [www.EWAonline.de](http://www.EWAonline.de). The committee also co-ordinates the other communication means as the European Water Pollution Control Network and the weekly newsletter European Water Management News (EWMN) to ensure a coherent communication of both organizational and technical information to the members and the public.

#### **European Affairs Committee (EUC)**

The committee follows the work of the European Commission and arranges regular meetings with officials in the Commission, responsible for activities of relevance to water management. The committee gives comments and advice to official European institutions on behalf of the members.

Special working groups within the EUC deal with the topics "Water Framework Directive" and "Central and Eastern European Countries".

#### **European Technical and Scientific Committee (ETSC)**

The ETSC provides a focal point for communication and co-operation between European practitioners and researchers concerned with subjects including Sludge, TOC/BOD/COD, and Groundwater. The work results in technical and scientific papers and documents.

The committee is also responsible for the organisation and sponsorship of workshops, seminars, conferences and symposia. The chairman is Bojan Zmaic (Croatia) who took over from Fritz Conradin in May 2003.

## European Water Association (EWA) Yearbook 2003

### Organisation and Structure

The highest authority of the EWA is the Council. Each member country is represented on the Council and these representatives meet annually to discuss and plan the activities of the association. The Management Committee is responsible for the daily work of the association and is supported by the Secretariat.

### Structure of the Management Committee

On the Council meeting in Lucerne on 23 May 2002 some new members for the EWA Management Committee (MC) were elected. Please find in the following an overview of the current and future positions within the MC:

<b>EWA Management Committee May 2003 - May 2005</b>	
<b>President</b>	Haakon Thaulow, N
<b>Past President</b>	Raymond Pinoit, F
<b>Honorary Treasurer</b>	Jörg Londong, D
<b>MC member</b>	Peter Cook, UK
<b>MC member</b>	Jana Zagorc-Koncan, SLO
<b>MC member</b>	Jiri Wanner, CZ
<b>MC member</b>	Jürg Meyer, CH
<b>Chairpersons of the Committees (without fixed term of office)</b>	
<b>European Technical and Scientific Committee (ETSC)</b>	Bojan Zmaic, HR
<b>Communication Committee (CC)</b>	Helena Marecos do Monte, P
<b>European Affairs Committee (EUC)</b>	
<b>Corporate Members' Group</b>	Peter Matthews, UK

### The Network of Experts

Although the Working Groups already present a focal point for the exchange of information, they only involve a limited number of persons out of the approximately 55,000 members assembled in the EWA National Member Associations. Additionally, the Working Groups cover only specific topics and are not able to answer to immediate requests.

It was thus decided to broaden the involvement of experts in and also outside the EWA by creating an email based Network of Experts. Whenever a specific question arises, input for the preparation of comments to EU legislation is required, speakers for conferences or members for projects are needed etc., the Network is asked to provide help and information.

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## **The EWA Code of Ethics**

### **The Role of Professional Ethics in Water Management**

By Claus Hagebro and Peter Matthews, The European Water Association (EWA)

#### Ethics in society

The recent legal case in South Africa between the SA State and 39 international medical companies producing AIDS medicine gave reason to a lot of publicity and discussion of moral and ethics. Well knowing that these companies are acting within a free market economy it suddenly became a problem for many people that the companies would not allow production of cheap copy-medicine. Because it was a question of seriously sick people who could not afford to buy the expensive medicine the companies were supposed to act according to moral principles and accept an income loss.

The reason to this change in attitude towards companies and institutions may be the result of the situation after the collapse of communism in Europe. Marxism was opposed to the free market economy/capitalism and provided criticism. After its disappearance the market economy was left alone and after some time many people found out that market economy also have some negative side effects. In this way a New Criticism of the market economy has developed. At the same time society has become very complicated. It is difficult to identify or understand all conditions in relation to e.g. a medical production. The public relates to simple messages. Therefore ethical principles are becoming increasingly important. We judge the company on the image and the way it introduces itself and on how it is presented in the press.

Some time ago an article by William Warner (1) discussed the influence of religion on wastewater treatment. The article described by means of examples how religious beliefs can direct behaviour relating to health and hygiene. The author stated that the number of people infected by faecal-related diseases continues to grow and he asked if hygiene is controlled better under the myths of religion than the facts of science. His own answer was: probably not - but he added that if all religions commanded: wash your hands after being in the toilet such a single disciplining taboo would have a major positive impact.

#### Trust of experts

The communities at large no longer automatically trust experts as they used to do. Environmental professionals are no exception. There is a general development that organisations have to become environmentally certified and demonstrate responsible governance, indeed ethical governance. Environmental ethics is not just the subject of academic study, it is the stuff of newspaper editorials as demonstrated above. Most people have an instinctive view that water is a human right and that its supply should probably be free. However, it is recognised that water service charges can be levied for the cost of treatment and carriage of water and wastewater. There is a powerful element of trust, when these policies are provided by utilities. When the service fails or the resources are misused, not only do customers suffer, but also they feel that the trust has been broken.

From the above it seems that there is an increasing demand for simple messages or rules to guide our general behaviour in relation to e.g. water management. Such rules could help to make the statement "make water everybody's business" from the World Water Vision come true. It seems that one success factor would be ethical behaviour at corporate and personal level in water management

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### The concept

At the Water Associations Worldwide seminar at the World Water Forum in The Hague the European Water Association (EWA) introduced the idea of ethical behaviour of water professionals. At the seminar we presented some generally accepted basic principles formulated as "Ten Commandments" which could serve as the foundation on which new water ethics could be developed. Furthermore, it was suggested to introduce an oath to be taken by individual members when they enter the water management profession. Finally EWA offered to take the lead on behalf of the Water Associations Worldwide for the further development of these ethical principles.

Since The Hague a small task group developed the idea of a Code of Ethics for the European Water Association and its National Member Associations. It worked in conjunction with a similar working group in the Chartered Institution of Water and Environmental Management (CIWEM) which serves UK and Eire. A number of changes have been made:

- The Code is now one which can be adopted by a professional body and its individual members which would be expected to comply with it
- It is less evangelical and more practical
- There is the possibility to broaden the issue to include all environmental activities to allow for the diversity of our organisations and to state the commitment of water professionals to the wider environment. However, the Code is very easily expressible in water terms and that version will be presented here.

There is some merit in adopting the same wording throughout all organisations to ensure harmony across Europe but it is recognised that, in practice, there may be variations. For example, some may wish to express the principles in a paragraph rather than ten bullet points; others may wish to choose a slightly different form of words to aid understanding - for example, the words 'ensure' and 'promote' may replace each other just like some may wish to replace 'water' with 'environment' to emphasise the focus of their organisation. So at the heart of the acceptance of the Code of Ethics by the water associations is acceptance of the principles.

(1) William S. Warner (2000): The influence of religion on wastewater treatment: a consideration for experts. WATER 21, August 2000.



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## The Code of Ethics

Individual Members of the Professional Association will be expected to use their influence to the fullest extent and to behave to the best of their ability to maintain a sustainable environment in the following way:

- Ensure that the use of environmental resources is fair and equitable and sustainable and takes account of the needs of a diverse environment.
- Never knowingly or deliberately over-exploit environmental resources.
- Never knowingly or deliberately cause the environment to be damaged or nuisance to be created by the discharge of unacceptable quantities of any substance or energy in any form.
- Recognise that in contributing to the provision of environmental services they provide an important contribution to human well-being.
- Ensure that the uses of the environment do it no harm or to the life within it and wherever possible enhance it.
- Embrace the needs of the community.
- Promote the concepts of integration of the management of the wider environment.
- Use their wisdom in serving the community and constantly strive to learn more.
- Serve as an example to others for responsible environmental behaviour.
- Never engage in corrupt practice and maintain a high standard of professional behaviour which will serve as an example to others.

## The national implementation

Since the adoption of the Code by the EWA Council for the Association itself the National Member Associations have deliberated on its implementation.

The UK member association CIWEM (The Chartered Institution of Water and Environmental Management) has adopted the Code in its original wording. With slight changes the code was translated into French and adopted by *AGHTM* (Association Générale des Hygiénistes et Techniciens Municipaux) which recommended to its members to respect it in all their professional activities. The German Association *ATV-DVWK* (German Association for Water, Wastewater and Waste) adopted a shorter version together with two other big German water related associations, thus reaching a wider community than only its own members. The French and German implementation are given in their original version on page 11. All three associations made big efforts to get the code known to the public and their individual members, e.g. by press releases, articles in the associations' journals and publication on their homepages.

Other associations have accepted the code as a guideline without formally adopting it, others still reflect a possible adoption.

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<b>The EWA Code of Ethics - the national implementation</b>		
<b>Country</b>	<b>EWA National Member Association</b>	<b>Activities to implement the Code of Ethics</b>
<b>A</b>	Österreichischer Wasser- und Abfallwirtschaftsverband (ÖWAV) - Austrian Water and Waste Management Association	Discussion of the Code within the association
<b>CH</b>	Verband Schweizer Abwasser- und Gewässerschutzfachleute (VSA)	Discussion and acknowledgement of the Code within the association
<b>D</b>	ATV-DVWK Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V. - German Association for Water, Wastewater and Waste	Discussion of the Code, adoption in an own wording, publication in the association's journal
<b>DK</b>	The Water Pollution Committee of the Society of Danish Engineers (Ingeniørforeningen i Danmark, IDA)	Discussion and acknowledgement of the Code within the association
<b>F</b>	Association Générale des Hygiénistes et Techniciens Municipaux (AGHTM)	Discussion of the Code, adoption in an own wording, recommended to the association's members
<b>L</b>	Association luxembourgeoise des services d'eau (ALUSEAU)	Discussion of the Code, accepted as guideline for the association.
<b>N</b>	Norwegian Water Association (NWA)	Discussed and accepted as guideline for the association
<b>NL</b>	Netherlands Association for Water Management (NVA)	Discussed and accepted as guideline for the association
<b>UK</b>	The Chartered Institution of Water and Environmental Management (CIWEM)	Discussion of the Code, adoption in its original wording, publication in the association's journal

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### France

« L'Association Générale des Hygiénistes et Techniciens Municipaux (AGHTM) recommande à ses membres de respecter dans leurs activités professionnelles et de contribuer à promouvoir, pour une préservation durable de l'environnement, les règles d'éthique ci-après :

- Faire en sorte que l'utilisation des ressources naturelles soit juste, équitable et durable et qu'elle prenne en compte la valeur d'un environnement diversifié
- Ne jamais surexploiter délibérément ou sciemment les ressources naturelles, sans motif grave
- Ne jamais délibérément ou sciemment, sans motif grave, causer des dommages à l'environnement ou provoquer des nuisances par le rejet excessif de substances ou d'énergie
- Faire en sorte que, dans toute la mesure du possible, l'utilisation de l'espace ne dégrade pas l'environnement et ne porte pas atteinte aux êtres vivants mais, au contraire, leur soit favorable.
- Être conscient que les services dans le domaine de l'environnement doivent contribuer de façon importante au bien-être des hommes
- Promouvoir les principes d'une gestion intégrée d'un environnement global
- Avoir le souci de l'intérêt général
- S'efforcer constamment de développer ses connaissances et les mettre au service de la communauté
- Donner l'exemple d'un comportement responsable vis-à-vis de l'environnement
- Rejeter toute forme de corruption et avoir une conduite professionnelle exemplaire »

### Germany

Ende 2001 verabschiedeten die in der ADW (Arbeitsgemeinschaft Deutsche Wasserwirtschaft) zusammengeschlossenen Verbände ATV-DVWK, BWK und DVGW eine für die Wasserwirtschaft geltende Berufsethik einschließlich der Grundsätze zu einem nachhaltigen Umgang mit Wasser:

„Wasser ein ererbtes Gut, das geschützt und entsprechend behandelt werden muss. Wasser soll von den Menschen vernünftig, solidarisch und nachhaltig genutzt werden können.

#### Grundsätze zum Umgang mit Wasser

Wir in der Wasserwirtschaft Tätigen treten dafür ein,

- das lebensnotwendige Wasser sicher zur Verfügung zu stellen,
- die Wasserressourcen sowie den Lebensraum Wasser weise und sorgsam zu behandeln und andere dazu anzuleiten sowie
- dem Missbrauch des Wassers und der Ressourcen entgegenzutreten.“

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**National Member Associations and Country Data**

This section aims to give an overview on some relevant data concerning the water section. It also lists the EWA National Member Associations and gives further information about them.

**European Water Association (EWA)  
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**Austria**

**Water supply and sewerage systems**

	<b>Data</b>
<b>General statistical information (1999)</b>	
Total population in million inhabitants	8.1
Population density in inhabitants per km <sup>2</sup>	97
<b>Drinking water sector (1999)</b>	
Percentage of inhabitants served	67
Specific household consumption in litre per person and day	140
Origin of drinking water:	
% Surface water	1
% Groundwater	50
% Spring water	49
<b>Wastewater sector (1999)</b>	
Annual wastewater quantity in million m <sup>3</sup>	1,079
Total number of inhabitants and population equivalents (1,000)	18,000
Percentage of total population connected to public sewer systems	81.5
Percentage of total population connected to public treatment plants	81.4
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only	0.2
% of annual wastewater quantity treated with primary and secondary treatment only	
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	99.7

**European Water Association (EWA)  
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**Austria**

**National EWA Member Association**

ÖWAV  
Österreichischer Wasser- und Abfallwirtschaftsverband  
Austrian Water and Waste Management Association



**President**

DI Dr. Werner Flögl

**Managing Director**

DI Manfred Assmann

**Secretariat**

Marc-Aurel-Str. 5  
1010 Wien  
Austria  
Phone: +43 1 535 57 20  
Fax: +43 1 535 40 64  
Internet: <http://www.oewav.at/>  
Email: [buero@oewav.at](mailto:buero@oewav.at)

**Description:**

The Austrian Water and Waste Management Association (ÖWAV) represents a voluntary federation of all the parties interested in water and waste management in Austria.

ÖWAV has seven main committees, and about 50 expert working groups. The expert working groups are producing the elaboration of recommendations, guidelines, rules, working instructions and studies for special fields of water and waste management.

The ÖWAV provides advisory services for members; publishes information papers; is documentation center for Austrian publications in the field of water and waste management; public information services.

ÖWAV organises about 20-30 congresses, symposiums, seminars and conferences per year. Furthermore ÖWAV provides trainings for operating personal of water and waste treatment plants. Every member receives a bimonthly magazine and the monthly ÖWAV-newsletter per email.

**Membership:**

Total number of members: about 1850, including public and private bodies directly involved in water and waste management: government and state authorities, cities, departments, engineering companies, professional associations, institutions, technical colleges and universities, scientists, lawyers, companies and industry.

**EWA Council representative**

Mr. Dipl.-Ing. Dr. Werner Flögl

**European Water Association (EWA)  
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**Belgium**

**Water supply and sewerage systems**

	<b>Flanders</b>	<b>Wallonia</b>	<b>Brux Cap</b>	<b>Total</b>
<b>General statistical information</b>				
Total population in million inhabitants (2002)	5.973	3.358	0.978	10.309
Population density in inhabitants per Km <sup>2</sup>	442	199	5944	335
<b>Drinking water sector</b>				
Percentage of inhabitants served	95.7%	?	100%	98%
Specific household consumption in litre per person and day	116	?	120	115
Origin of drinking water:				
% Surface water	50.1%	?	27.8%	36%
% Ground water	49.9%	?	72.2%	64%
% Spring water	0%	?	0%	0%
<b>Wastewater sector</b>				
Annual wastewater quantity in million m <sup>3</sup>	?	261	79	?
Total number of inhabitants and population equivalents (1.000 )	?	3,969	1,200	?
Percentage of total population connected to public sewer systems	84.57%	73%	90%	?
Percentage of total population connected to public treatment plants	55.11%	?	20%	?
Wastewater treatment plants				
% of annual wastewater quantity treated with primary treatment only	0%	0%	0%	0%
% of annual wastewater quantity treated with primary and secondary treatment only	1.12%	28.1%	20%	?
% of annual wastewater quantity treated with primary ,secondary and tertiary treatment	53.98%	10.8%	0%	?

**Notes:**

(\*) Of 68,8 millions m<sup>3</sup> distributed to the inhabitants of Brussels-Capital Regional District, only 2,5 millions m<sup>3</sup> are locally produced. (about 66,3 millions m<sup>3</sup> imported from Wallonia)



**European Water Association (EWA)  
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**Belgium**

**National EWA Member Association**

Belgian Committee of IWA (B-IWA)

**President**

Prof. Willy VERSTRAETE

**Secretariat :**

Belgian Committee of IWA (B-IWA)

Nicole Van EYLEN

rue Colonel Bourg 127-129 -

BE 1140 BRUXELLES

Phone: + 32 2 706 40 93

Fax: + 32 2 706 40 99

Email: [nvaneylen@belgaqua.be](mailto:nvaneylen@belgaqua.be)

Homepage: <http://www.b-iwa.be/>

**Description**

B-IWA is the Belgian National Committee of IWA representing Belgian specialists in the field of drinking water and wastewater from the whole sector (firms, universities, government institutions, individuals). It mainly ensures the link with IWA and EWA and organizes information sessions (Happy Hours) for its members three times a year.

**EWA Council representative**

Louis VANDEVENNE

**European Water Association (EWA)  
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**Croatia**

**National EWA Member Association**

Croatian Water Pollution Control Society

**Secretariat**

Ulica Grada Vukovara 220

HR-10000 Zagreb

Croatia

Phone: +385 1 6110 522

Fax: +385 1 6151 794

**EWA Council representative**

Sinisa Sirac

Croatian Waters

Head of Central Water

Avenija V. Holjevca 15

**European Water Association (EWA)  
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**Czech Republic**

**National EWA Member Association**

Asociace čistírenských expertů České republiky (AČE CR)  
Association of Wastewater Treatment Experts (AWWTE)



**Secretariat**

Masná 5  
CZ-602 00 Brno  
Czech Republic  
Phone: +420 (0) 54 32 35 303  
Fax: +420 (0) 54 32 35 303  
Email: [ace@ace-cr.cz](mailto:ace@ace-cr.cz)  
Internet: <http://www.ace-cr.cz/>

**EWA Council representative**

Jiri Wanner

**European Water Association (EWA)  
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**Denmark**

**Water supply and sewerage systems**

	<b>Data</b>
<b>General statistical information</b>	
Total population in million inhabitants (2000)	5.3
Population density in inhabitants per km <sup>2</sup> (2000)	123.7
<b>Drinking water sector <sup>1)</sup></b>	
Percentage of inhabitants served (1999)	
- 63% by public utilities and the remaining by private utilities (171 public and 2680 private utilities in total)	
Specific household consumption in litre per person and day (1999)	132
Origin of drinking water: (1997)	
% Surface water	0.4
% Groundwater	99.6
% Spring water	0
<b>Wastewater sector</b>	
Annual wastewater quantity in million m <sup>3</sup> (1997)	636
Total number of inhabitants and population equivalents (1,000) (1999)	8,100
Percentage of total population connected to public sewer systems (1996)	87%
Percentage of total population connected to public treatment plants (1996)	87%
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only (1996)	2.1%
% of annual wastewater quantity treated with primary and secondary treatment only (1996)	15.1%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment (1996) (69,7% P removal and 82% N removal)	82%

**Sewage sludge**

Volume of sewage sludge produced per year (1997): 151,700 m<sup>3</sup> dry mass

<sup>1)</sup> Comments:

The water production in 1999 amounted to 80.8 m<sup>3</sup>/capita. The production by the water supplies has declined by approx. 24% in the period 1990-99.

The total water consumption in 1999 amounted to 80.4 m<sup>3</sup>/capita/year. The water consumption continues to fall. From 1990-99 there has been a linear decline in the total consumption, which has fallen by approx. 2.1 m<sup>3</sup>/capita/year.

The average price of water in 1999 experienced by the consumer was 30.94 dkr/ m<sup>3</sup> (utility share 20%, waste water fee 42% and state taxes and VAT 38%)

# European Water Association (EWA) Yearbook 2003

## Denmark

### National EWA Member Association

The Water Pollution Committee of The Society of Danish Engineers  
(Ingeniørforeningen i Danmark, IDA)



### Chairman

Peter Steen Mikkelsen

### Secretariat

IDA

Kalvebod Brygge 31-33

DK-1780 Copenhagen V

Phone: +45 33 18 48 48

Fax: +45 33 18 48 99.

Email: [ida@ida.dk](mailto:ida@ida.dk)

Homepage: [www.ida.dk](http://www.ida.dk)

The Committee's contact person is: Mrs. Mette Holck (Email: [mh@ida.dk](mailto:mh@ida.dk))

### Description

The Water Pollution Committee (WPC) deals with engineering tasks in relation to design, construction and operation of sewerage systems and wastewater treatment plants.

The Committee has existed for more than 40 years and has played a major role in the development of sewerage and wastewater technology in Denmark. The Committee initiates research and development activities and publishes the results in special publications. These have formed the background for the development of common Danish technical practise in wastewater management and for a range of EDP programs used by local and regional authorities as well as by consultants.

The members of the WPC are representatives from public authorities, universities and other technical institutions and trade and industry. Members are appointed for a 2 year period and meet once a year. The Management Committee is responsible for the daily operation, and specific tasks are solved by standing committees.

### EWA Council representative

Claus Hagebro

**European Water Association (EWA)  
Yearbook 2003**

**Estonia**

**Water supply and sewerage systems**

**Data**

**General statistical information (2000)**

Total population in million inhabitants	1.4
Population density in inhabitants per km <sup>2</sup>	32

**Drinking water sector (2000)**

Percentage of inhabitants served	77%
Specific household consumption in litre per person and day	100 l
Origin of drinking water:	
% Surface water	35%
% Groundwater	65%
% Spring water	-

**Wastewater sector (1999)**

Annual wastewater quantity in million m <sup>3</sup>	282 <sup>1)</sup>
Total number of inhabitants and population equivalents (1,000)	980
Percentage of total population connected to public sewer systems)	70%
Percentage of total population connected to public treatment plants	69%
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only	1%
% of annual wastewater quantity treated with primary and secondary treatment only	32%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	69%

<sup>1)</sup> Wastewater requiring treatment

**European Water Association (EWA)  
Yearbook 2003**

**Estonia**

**National EWA Member Association**

Eesti Veeühing  
Estonian Water Association



**Chairman**

Mr. Ain Lääne

**Secretariat**

Maret Merisaar  
33 Mustamäe tee  
10616 Tallin  
Estonia  
Phone: +372 656 5414  
Fax: +372 656 5442  
Email: roheline@online.ee  
Homepage: <http://www.veeyhing.ee/index1.html>

**Description**

150 personal members

**EWA Council representative**

**European Water Association (EWA)  
Yearbook 2003**

**Finland**

**National EWA Member Association**

Suomen Vesiyhdistys ry  
Water Association of Finland

**President**

Pertti Seuna  
Finnish Environment Institute  
Kesäkatu 6  
00251 Helsinki  
Finland  
Phone: +358 9 40 30 03 66  
Fax: +358 9 40 30 03 90

**Secretary General**

Markku Korhonen  
Secretary General  
Water Association Finland  
P.O.Box 721  
00101 Helsinki  
Finland  
Phone: +358 9 40 30 04 05  
Fax: +358 9 40 30 04 90

**Secretariat**

P.O. Box 721  
FIN-00101 Helsinki  
Finland  
Phone: +358 9 40 30 04 05  
Fax: +358 9 40 30 04 90  
Homepage: <http://www.vesiyhdistys.fi/>

**Description:**

A non-governmental body with some 600 individual members and 20 corporate members, founded in 1969

**Scope:**

Hydrology, limnology, water supply and waste water treatment, water legislation, river basin management, water pollution control, fisheries, hydroengineering.

**Activities:** bringing together water professionals, organizing seminars; among them the World Water Day celebration, publication activities, study tours, etc.

**EWA Council representative**

Pertti Seuna



**European Water Association (EWA)  
Yearbook 2003**

**European Water Association (EWA)  
Yearbook 2003**

**France**

**Water supply and sewerage systems**

<b>General statistical information</b>	<b>Data</b>
Total population in million inhabitants	61
Population density in inhabitants per km <sup>2</sup>	110

**Drinking water sector**

Percentage of inhabitants served	99 %
Specific household consumption in litre per person and day (1995)	164 l
Origin of drinking water	
% surface water	60 %
% groundwater	40 %
% spring water	

**Wastewater sector**

Annual wastewater quantity in million m <sup>3</sup>	16,3
Total number of inhabitants and population equivalents (1,000)	53.400 and 81.500
Percentage of total population connected to public sewer systems	93 %
Percentage of total population connected to public treatment plants	87.5 %
Wastewater treatment plants	15435
% of annual wastewater quantity treated with primary treatment only	≠ 15 %
% of annual wastewater quantity treated with (primary) and secondary treatment only	70 %
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	≠ 15 %

all data year 2000

# European Water Association (EWA) Yearbook 2003

## France

### National Member Association

AGHTM - Association Générale des Hygiénistes et Techniciens Municipaux  
General Association of Municipal and Sanitary Engineers



#### President

Jean-Michel BARBIER

#### Managing Director

Alain LASALMONIE

### Secretariat

AGHTM  
83, avenue Foch  
75116 Paris  
Tel. (+ 33) 01.53.70.13.53  
Fax (+ 33) 01.53.70.13.40  
Email: [aghtm@aghtm.org](mailto:aghtm@aghtm.org)  
Homepage: [www.aghtm.org](http://www.aghtm.org)

### Description

The General Association of Municipal and Sanitary Engineers (AGHTM) was established in 1905 to promote and circulate knowledge on municipal techniques affecting public hygiene and health, i.e. drinking water, waste water, solid waste disposal, etc ... It now has regional sections, standing technical committees, and working groups, and also organises congresses, symposiums, seminars and conferences. It publishes a monthly magazine and reports on various studies.

### Membership

Total number of members: about 4,000, including public and private bodies directly involved in environmental management: municipal and regional corporations (municipalities, cities, departments, specialist organisations), government and state authorities, engineering companies, professional associations, institutions, institutes of technology, technical colleges and universities.

### Activities

- Gathering, processing and dissemination of information on environmental management including distribution of the Association's monthly review: "Techniques, Sciences, Méthodes (TSM)".
- Holding seminars and study groups
- Presentation of research papers disseminating the results of research in the field of water, carried out by IWA members and research organisations
- Presenting requests and petitions to the government; presenting requests for government environmental assistance for water, waste water and working to resolve problems with solid waste treatment.

### EWA Council Representative

Raymond PINOIT

**European Water Association (EWA)  
Yearbook 2003**

**Germany**

**Water supply and sewerage systems**

**General statistical information**

Total population in million inhabitants (1998)	82
Population density in inhabitants per km <sup>2</sup> (1999)	230.00

**Drinking water sector (1998)**

Percentage of inhabitants served	99 %
Specific household consumption in litre per person and day	129
Origin of drinking water:	
% Surface water	21%
% Groundwater	65%
% Spring water	9%
% Others	5%

**Wastewater sector (1998)**

Annual wastewater quantity in million m <sup>3</sup>	4,997
Total number of inhabitants and population equivalents (1,000)	122,387
Percentage of total population connected to public sewer systems	93%
Percentage of total population connected to public treatment plants	91%
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only	1%
% of annual wastewater quantity treated with primary and secondary treatment only	7%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	92%

**European Water Association (EWA)  
Yearbook 2003**

**Germany**

**National EWA Member Association**

ATV-DVWK

Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall  
German Association for Water, Wastewater and Waste



**President**

Prof. Dr.-Ing. E.h. Hermann H. Hahn, Ph. D.

**Managing Director**

Dr.-Ing. Sigurd van Riesen

**Secretariat**

Theodor-Heuss-Allee 17

53773 Hennef

Phone: +49-(0)2242 872-0

Fax: +49-(0)2242 872-135

Email: [atvorg@atv.de](mailto:atvorg@atv.de)

Homepage: [www.atv-dvwk.de](http://www.atv-dvwk.de)

**Description**

The ATV-DVWK is the association representing German specialists working in the fields of wastewater, waste and water management. The main activities of the association cover both technical-scientific subjects and the economic and legal aspects of environmental protection. The politically and economically independent association operates at a national and international level within the fields of water pollution control, wastewater, hazardous substances, waste, hydraulic engineering, hydropower, hydrology, soil conservation and the rehabilitation of contaminated sites.

The some 16,000 members work for municipalities, engineering consultancies, public authorities, companies, associations and also in universities. Of these there is an individual membership of 10,000 specialists made up from engineers, scientists, lawyers, businessmen, operating personnel and technicians. Through the ATV-DVWK corporate membership there is access to about 160,000 specialists.

Central tasks of the association are the preparation and updating of the ATV-DVWK Standards, the carrying out of professional training and keeping members up to date.

**EWA Council representative**

Prof. Dr.-Ing. Jörg Londong

**European Water Association (EWA)  
Yearbook 2003**

## Hungary

### Water supply and sewerage systems

<b>General statistical information</b>	<b>Data (1999)</b>
Total population in million inhabitants	10.16
Population density in inhabitants per km <sup>2</sup>	109
<b>Drinking water sector</b>	
Percentage of inhabitants served	97.4 %
Specific household consumption in litre per person and day	135 l
Origin of drinking water:	
% Surface water	6%
% Groundwater	42 %
% Karstic water	16 %
% Bankfiltered water	36 %
<b>Wastewater sector</b>	
Annual wastewater quantity in million m <sup>3</sup>	590
Total number of inhabitants and population equivalents	14.9 10 <sup>6</sup>
Percentage of total population connected to public sewer systems	49.3 %
Percentage of total population connected to public treatment plants	29 %
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only	3 %
% of annual wastewater quantity treated with primary and secondary treatment only	73 %
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	24 %

**European Water Association (EWA)  
Yearbook 2003**

**Hungary**

**National Member Association**

Hungarian Wastewater Association (MaSzeSz)

**President**

Prof. László Somlyódy

**Managing Director**

Dr. Dezső Dulovics

**Secretariat**

MaSzeSz

H-1111 Budapest

Műegyetem rkp. 3.

Phone: +36-1-463-3751

Fax: +36-1-463-3753

Email: vajda@vcst.bme.hu

**EWA representative**

DI. Károly Kovács

**European Water Association (EWA)  
Yearbook 2003**

**Latvia**

**National EWA Member Association**

Latvian Water and Waste Water Works Society  
LWSA

**Secretariat**

Latvian Water and Waste Water Works Society  
LWSA  
Mr. Edgars Taurinš  
Director  
Rīga, Bezdēlīgu iela 12  
LV-1007 Latvia  
Phone: +371 76 24 693

**EWA Council representative**

Andis Mezapūke



**European Water Association (EWA)  
Yearbook 2003**

**European Water Association (EWA)  
Yearbook 2003**

**Lithuania**

**Water supply and sewerage systems**

**Data**

**General statistical information**

Total population in million inhabitants	3.7
Population density in inhabitants per km <sup>2</sup>	56.7

**Drinking water sector**

Percentage of inhabitants served	
Specific household consumption in litre per person and day	85
Origin of drinking water:	
% Surface water	-
% Groundwater	100%
% Spring water	-

**Wastewater sector**

Annual wastewater quantity in million m <sup>3</sup>	168
Total number of inhabitants and population equivalents (1,000)	-
Percentage of total population connected to public sewer systems	60.4%
Percentage of total population connected to public treatment plants	60%
Wastewater treatment plants	
% of annual wastewater quantity discharged without treatment	2%
% of annual wastewater quantity treated with primary treatment only	18%
% of annual wastewater quantity treated with primary and secondary treatment only	61%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	19%

**European Water Association (EWA)  
Yearbook 2003**

**Lithuania**

**National EWA Member Association**

Vandeny švaros asociacija (VŠA)  
Clean Water Association (CWA)

**President**

Dr. Edmundas Levitas  
A. Gustaičio g. 6-217  
LT-- Kaunas, Lithuania 3018  
Phone/Fax: +370 37 338324  
Email: e.levitas-vs@delphi.lt

**Description**

The Clean Water Association (CWA) is a Non-Governmental environmental organisation. CWA was founded on May 31, 1996. Registered on September 25, 1996. Registration No.529. The CWA's mission is the reduction of pollution of surface and ground water by engineering, organisational, educational, legal, and economical means.

The main goals of the Association's activities are:

- Environmental education aimed at the formation of the right comprehension by the population of the problems of water resources.
- The improvement of the design, construction, operation, and maintenance of facilities for the prevention of pollution of water bodies, primarily, of the plants for the treatment of the wastewater.
- The rise of professional qualifications of specialists and organisations working in the field of water pollution control.
- The quest for and support of the right and effective governmental strategies and policy in the sphere of protection of water bodies.
- The assistance in the creation and development of the production of technological equipment for the treatment of wastewater in Lithuania.
- The build up and strengthening of the ties of Lithuania's environmentalists with the counterpart organisations, associations, and specialists of other countries.
- The support for the global efforts aimed at the protection of water against pollution.

Members of CWA are: Lithuanian municipalities, universities, water supply enterprises, design bureaus, manufacturing companies.

**EWA Council representative**

Dr. Edmundas Levitas

**European Water Association (EWA)  
Yearbook 2003**

**Luxembourg**

**Water supply and sewerage systems**

Data

**General statistical information**

Total population in million inhabitants (2002)	0.450
Population density in inhabitants per km <sup>2</sup>	174

**Drinking water sector**

Percentage of inhabitants served(2001)	> 99%
Specific household consumption in litre per person and day (2001)	147
Origin of drinking water(2001):	
% Surface water	25%
% Groundwater	5%
% Spring water	70%

**Wastewater sector**

Annual wastewater quantity in million m <sup>3</sup> (2001)	65
Total number of inhabitants and population equivalents (1,000) (2002)	700
Percentage of total population connected to public sewer systems (2002)	99%
Percentage of total population connected to public treatment plants (2002)	93%
Wastewater treatment plants )	
% of annual wastewater quantity treated with primary treatment only (2002)	5%
% of annual wastewater quantity treated with primary and secondary treatment only (2002)	73%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment (2002)	22%

**European Water Association (EWA)  
Yearbook 2003**

**Luxembourg**

**National EWA Member Association**

ALUSEAU  
Association luxembourgeoise des services d'eau  
Association of Water Services from Luxembourg



**President**

Mr. Fred Lang

**Secretariat**

c/o SIDERO  
P.B. 129  
7502 Mersch  
Phone: +352 32 58 60-20  
Fax: +352 32 58 63  
Email: [aluseau@aluseau.lu](mailto:aluseau@aluseau.lu)  
Web: [www.aluseau.lu](http://www.aluseau.lu)

**Description**

The ALUSEAU is the national association of water services from the Grand-Duchy of Luxembourg, regrouping members from the drinking-water sector as well as members from the wastewater area. The ALUSEAU is a politically independent and non-profit making association. The main objectives of the association are to promote the common interests of all authorities and public services dealing with water management. To that effect the ALUSEAU aims at promoting the study of all scientific, technical, economic and administrative problems relating to drinking-water supply and sewage collection and treatment promoting a suitable management of the water resources of the country representing its members within international associations dealing with the same objectives.

**EWA Council representative**

Mr. Nico HOFFMANN

**European Water Association (EWA)  
Yearbook 2003**

**Netherlands**

**Water supply and sewerage systems**

**General Statistical Information**

Total population in million inhabitants (2000)	15,9
Population density in inhabitants per km <sup>2</sup>	

**Drinking Water Sector**

Percentage of inhabitants served (1999)	90,7
Specific household consumption in litre per person and day (1999)	218
Origin of drinking water: (1999)	
% surface water	38,1%
% groundwater	60 %
% spring water	1,9 %

**Wastewater sector (1999)**

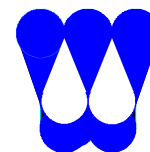
Annual wastewater quantity in million m <sup>3</sup>	1992 million m <sup>3</sup>
Total number of inhabitants and population equivalents	15804 thousand inh./ 23400 thousand p.e.
Percentage of total population connected to public sewer systems	98%
Percentage of total population connected to public treatment plants	98%
Wastewater treatment plants	406
% of annual wastewater quantity treated with primary treatment only	0 %
% of annual wastewater quantity treated with primary and secondary treatment only	19,8 %
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	80,2 %

**European Water Association (EWA)  
Yearbook 2003**

**Netherlands**

**National Member Association**

Nederlandse Vereniging voor Waterbeheer NVA  
(Netherlands Association for Watermanagement)



**President**

Ir. W. van Starckenburg  
C/o Bureau KVWN/NVA  
Postbus 70  
2280 AB Rijswijk  
The Netherlands  
Phone: + 31 70 41 44 778  
Email: info@nva.net

**Secretariat**

M.C. van Houten  
Association executive  
Bureau KVWN/NVA  
Postbus 70  
2280 AB Rijswijk  
The Netherlands  
Phone: + 31 70 41 44 778  
Fax + 31 70 41 44 420  
Email: info@nva.net

**Description**

Founded on 18<sup>th</sup> September 1958, the Netherlands Association for Water Management, NVA, is a multidisciplinary group of people. In 2001 the association's membership numbered over 3000. The association's aim is to enhance the knowledge and art of multidisciplinary integrated water management and the collection, transport and treatment of wastewater. This is achieved by providing a platform to allow its members to exchange and test their knowledge and experience.

The profile of the association reflects the integrated approach to water quantity and water quality management, river management and pollution control, as well as the relationship with surface water management, groundwater management, sewerage, sewage and industrial wastewater and sewerage treatment.

The NVA aims to reach its goals by:

- organising scientific and technical conferences
- publishing periodicals and journals
- maintaining contacts with organisations and institutions, national and international, which pursue similar objectives
- organising and promoting education, training and study
- organising meetings and excursions both at home and abroad
- presenting awards to stimulate publications and research

**NVA membership**

NVA brings together people engaged in management, planning, design, construction, operation, maintenance, monitoring, research and education concerning sewerage, domestic and industrial sewage and wastewater treatment, river management, pollution control, flood and bank protection, i.e. all aspects of integrated water management. The association recognises individual members and (financial) contributors.

**EWA Council Representative**

Prof. Dr. Joost de Jong

**European Water Association (EWA)  
Yearbook 2003**

**Norway**

**Water supply and sewerage systems**

	<b>Data</b>
<b>General statistical information*</b>	
Total population in million inhabitants	4.45
Population density in inhabitants per km <sup>2</sup>	14.2
<b>Drinking water sector*</b>	
Percentage of inhabitants served	89
Specific household consumption in litre per person and day	224
Origin of drinking water:	
% Surface water	90
% Groundwater	10
% Spring water	0
<b>Wastewater sector*</b>	
Annual wastewater quantity in million m <sup>3</sup>	
Total number of inhabitants and population equivalents (1,000)	6,250
Percentage of total population connected to public sewer systems	80
Percentage of total population connected to public treatment plants	72
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only	28 %
% of annual wastewater quantity treated with primary and secondary treatment only	64 %
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	89 %

\*year of data: **1999**



**European Water Association (EWA)  
Yearbook 2003**

**Norway**

**National EWA Member association**

Norwegian Water Association (NWA)

**President**

Professor Torleiv Bilstad

**Secretariat**

Mrs Ågot Tangerud

Bjerkelundsveien 9

Phone: 004767142723

Fax: 004767142723

**Description:**

The Norwegian Water Association (NWA) is an independent non-governmental and not-profit organisation dealing with the management and improvement of the water environment. The NWA provides a forum for discussion of key technical, scientific and policy issues on water covering both water resources and water quality. NWA publicise its own journal "VANN" ("WATER"). Through this exchange of knowledge, the NWA significantly contributes to sustainable water management in Norway

The NWA has 1050 individual and 530 corporate members in Norway.

**EWA Council representative**

Senior Advisor Haakon Thaulow

**European Water Association (EWA)  
Yearbook 2003**

**Poland**

**Water supply and sewerage systems**

	<b>Data</b>
<b>General statistical information</b>	
Total population in million inhabitants (1999)	38.6
Population density in inhabitants per km <sup>2</sup> (1999)	124
<b>Drinking water sector</b>	
Percentage of inhabitants served (1999)	91.5%
Specific household consumption in litre per person and day (1999)	124
Origin of drinking water (1999):	
% Surface water	38%
% Groundwater	62%
% Spring water	
<b>Wastewater sector</b>	
Annual wastewater quantity in million m <sup>3</sup> (1999)	9,492
Percentage of total population connected to public treatment plants(1999)	51.5
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only	4.6%
% of annual wastewater quantity treated with primary and secondary treatment only	31.6%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	15.3%
Number of inhabitants in the cities (x1,000) (1999)	19,780
Percentage of population connected to public sewer systems in the cities (1999)	82,8%
Percentage of population connected to public treatment plants in the cities (1999)	78,7%
Wastewater treatment plants in the cities	
% of annual wastewater quantity treated with primary treatment only (1999)	8%
% of annual wastewater quantity treated with primary and secondary treatment only (1999)	47%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment (1999)	23.7%

**European Water Association (EWA)  
Yearbook 2003**

**Poland**

**National EWA Member Association**

Polish National Committee of the IWA

**Secretariat**

Polish National Committee of the IWA

ul. Podlesna 61

PL-01-673 Warszawa

Phone: / Fax: +48 22 834 02 75

**EWA Council representative**

Marek J. Gromiec

**European Water Association (EWA)  
Yearbook 2003**

**Portugal**

**National EWA Member Association**

Associação Portuguesa para Estudos de Saneamento Básico (APESB)

**Secretariat**

Associação Portuguesa para Estudos de Saneamento Básico (APESB)

c/o Laboratório Nacional de Engenharia Civil

Av. do Brasil, 101

P-1700-066 Lisboa Codex

Phone: +351 21 844 38 49

Fax: +351 21 844 30 32

Email: [apesb@apesb.pt](mailto:apesb@apesb.pt)

Homepage: [www.apesb.pt](http://www.apesb.pt)

**EWA Council representative**

Joaquim Pocas Martins

**European Water Association (EWA)  
Yearbook 2003**

**Serbia and Montenegro**

**National EWA Member Association**

Yugoslav Water Pollution Control Society (YUWPCS)

**Secretariat**

Yugoslav Water Pollution Control Society (YUWPCS)

Kneza Milosa St. 9/I

11000 Belgrade

Serbia and Montenegro

Phone: +381 11 3241 656

Fax: +381 11 3241 656

**EWA Council representative**

Prof. Stanka Filipovic

**European Water Association (EWA)  
Yearbook 2003**

**Slovak Republic**

**Water supply and sewerage systems**

	<b>Data</b>
<b>General statistical information</b>	
Total population in million inhabitants (2001)	5.4
Population density in inhabitants per km <sup>2</sup> (2001)	109
<b>Drinking water sector</b>	
Percentage of inhabitants served (2001)	83.6
Specific household consumption in litre per person and day (2001)	117.1
Origin of drinking water:	
% Surface water (2001)	17.2 %
% Groundwater (2001)	82.8 %
% Spring water	0 %
<b>Wastewater sector</b>	
Annual municipal wastewater quantity in million m <sup>3</sup> (2001)	483
Total number of population equivalents (municipal ww) (1,000)	3,800
Percentage of total population connected to public sewer systems (2001)	55.2 %
Percentage of total population connected to public treatment plants (2000)	52.4 %
Wastewater treatment plants	346
% of annual wastewater quantity treated with primary treatment only (2000)	2.3 %
% of annual wastewater quantity treated with primary and secondary treatment only (2000)	96.4 %
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	1.3 %

**European Water Association (EWA)  
Yearbook 2003**

**Slovak Republic**

**National EWA Member Association**

Asociácia čistiarenských expertov SR (AČE SR)

Association of Wastewater Treatment Experts of the Slovak Republic (AČE SR)



**President**

Assoc. Prof. Miloslav Drtil, PhD.

**Vice-president**

Assoc. Prof. Juraj Námer, PhD.

**Secretary**

Nábr. arm. gen. Svobodu 5

812 49 Bratislava

Slovak Republic

Phone: 00421 2 59343405

Fax: 00421 2 54411941

Email: Elena\_Rajczykova@vuvh.sk

**Description**

ACE SR, as the leading Slovakian membership association, aims its effort to the improvement of urban water management and especially of wastewater management in an environmentally sustainable way. Specifically, ACE's coverage includes all aspects of wastewater collection, treatment and disposal and overall management of water quality and quantity including environmental and public health issues. ACE's mission is to achieve its vision by promoting best practice and exchange of the latest skills, techniques and knowledge on these aspects of water management. Then to disseminate this by means of specialised meetings, publications, expert networks and electronic media. Also, to engage in advocacy and exchange of ideas with major agencies and promote public awareness. And, to provide a means whereby all the different types of organisations and professions in the water sector can exchange information. ACE's intention is to promote integrated urban water management with special attention to wastewater management as the best strategy for securing safe and adequate sanitation for communities.

**EWA Council representative**

Assoc. Prof. Ján Derco, PhD.

**European Water Association (EWA)  
Yearbook 2003**

**Slovenia**

**Water supply and sewerage systems**

<b>General statistical information</b>	<b>Data</b>
Total population in million inhabitants (1996)	2.0
Population density in inhabitants per km <sup>2</sup> (1996)	98.2
<b>Drinking water sector</b>	
Percentage of inhabitants served (1995)	97.4
Specific household consumption in litre per person and day(1997)	117
Origin of drinking water (1997):	
% Surface water	2.9%
% Groundwater	53.3%
% Spring water	43.8%
<b>Wastewater sector</b>	
Annual wastewater quantity in million m <sup>3</sup> (1995)	112.3
Total number of inhabitants and population equivalents (1,000) (1995)	1,219
Percentage of total population connected to public sewer systems (1991)	53%
Percentage of total population connected to public treatment plants (1991)	30%
Wastewater treatment plants (1995)	
% of annual wastewater quantity treated with pre-treatment only	31%
% of annual wastewater quantity treated with primary treatment only	5%
% of annual wastewater quantity treated with primary and secondary treatment only	64%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	0%



**European Water Association (EWA)  
Yearbook 2003**

**Slovenia**

**National EWA Member Association**

SDZV  
Slovensko društvo za zaščito voda  
Slovenian Water Pollution Control Association



**President**

Prof.Dr. Milenko Roš

**Managing Director**

Prof.Dr. Jana Zagorc-Končan

**Secretariat**

Hajdrihova 19  
SI-1000 Ljubljana  
Phone: +386 1 47 60 200  
Fax +386 1 42 59 244  
Homepage: [www.sdzv-drustvo.si](http://www.sdzv-drustvo.si)

**Description**

In 1991, Slovensko društvo za zaščito voda (SDZV) - Slovenian Water Pollution Control Association was established with the objective of promoting the advancement of water pollution control technology and of providing a forum for discussion of key policy issues.

SDZV is a scientific, professional, non-governmental and non-profit association. The benefits of membership are numerous. The SDZV provides a unique forum for promotion of technical and policy views as well as for the exchange of views between professional and commercial interests.

Membership enables attendance at seminars and conferences organised by the association at significantly reduced fees. All members of the association have a significant discount when buying all the EWA's publications.

The main activity of our national Association is organisation of professional conferences, seminars, meetings and excursions as well as publication of professional literature.

**EWA Council representative**

Prof.Dr. Jana Zagorc-Končan

**European Water Association (EWA)  
Yearbook 2003**

**Spain**

**Water supply and sewerage systems**

	<b>Data</b>
<b>General statistical information</b>	
Total population in million inhabitants (1998)	40
Population density in inhabitants per km <sup>2</sup>	77
<b>Drinking water sector</b>	
Percentage of inhabitants served	97%
Specific household consumption in litre per person and day	265
Origin of drinking water:	
% Surface water	76
% Groundwater	17
% Spring water	3
% Desalted water	4
<b>Wastewater sector</b>	
Annual wastewater quantity in million m <sup>3</sup>	--
Total number of inhabitants and population equivalents (1,000)	--
Percentage of total population connected to public sewer systems	86%
Percentage of total population connected to public treatment plants	83%
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only	24,8%
% of annual wastewater quantity treated with primary and secondary treatment only	70%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment	4%

**European Water Association (EWA)  
Yearbook 2003**

**Spain**

**National EWA Member Association**

Asociación para la defensa de la calidad de las aguas (ADECAGUA)



**President**

Angel Cajigas

**Managing Director**

Gamaliel Martínez de Bascarán  
Dr. Ingeniero Industrial

**Secretariat**

ADECAGUA  
Vía Laietana, 39  
08008 BARCELONA  
Phone: +34 93.319.23.00  
Fax: +34 93.310.06.81  
Email: [acriso@aic.es](mailto:acriso@aic.es)  
Homepage: [www.adecagua.org](http://www.adecagua.org)

**Description**

ADECAGUA is non profit educational and technical association independent politically and economically of water quality experts. It is the Spanish member of the Water Environment Federation. It is formed by some 300 members working with the administration or private water companies, engineering firms, universities, consulting etc. Mostly are active private members. We developed and disseminate information concerning the nature, collection and treatment of domestic and industrial water. ADECAGUA organises regularly technical seminars and meetings and hold a webpage [www.adecagua.org](http://www.adecagua.org). We collaborate regularly with two specialised journals in Spain.

**EWA Council representative**

Gamaliel Martínez de Bascarán  
Dr. Ingeniero Industrial

**European Water Association (EWA)  
Yearbook 2003**

**Switzerland**

**Water supply and sewerage systems**

**Data**

**General statistical information**

Total population in million inhabitants (2000)	7.2
Population density in inhabitants per km <sup>2</sup> (2000)	175

**Drinking water sector**

Percentage of inhabitants served (2000)	100%
Specific household consumption in litre per person and day (2000)	160 l
Origin of drinking water (2000):	
% Surface water	18%
% Groundwater	40%
% Spring water	42%

**Wastewater sector**

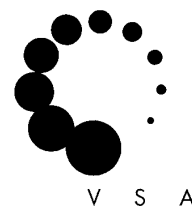
Annual wastewater quantity in million m <sup>3</sup> (2000)	1,440
Total number of inhabitants and population equivalents in 1'000 eq. (2000)	20,250
Percentage of total population connected to public sewer systems (2000)	97%
Percentage of total population connected to public treatment plants (2000)	96%
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only (2000)	0%
% of annual wastewater quantity treated with primary and secondary treatment only (2000)	15%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment (2000)	85%

**European Water Association (EWA)  
Yearbook 2003**

**Switzerland**

**National EWA Member Association**

Verband Schweizer Abwasser- und Gewässerschutzfachleute (VSA)  
Association suisse des professionnels de la protection des eaux  
Associazione svizzera dei professionisti della protezione delle acque  
Swiss Water Pollution Control Association



**President**

Jürg Meyer, dipl. Ing. ETH

**Managing Director**

Hanspeter Walser, dipl. Ing. ETH  
VSA

**Secretariat**

Strassburgstrasse 10  
Postfach 2443  
CH-8026 Zürich  
Phone: +41-(0)1 241 25 85  
Fax: +41-(0)1 241 61 29  
Email: sekretariat@vsa.ch  
Internet: www.vsa.ch

**Description**

The VSA is the association representing Swiss specialists working in the fields of wastewater and water pollution control management. The main activities of the association cover technical, scientific, economic and legal aspects of water pollution control. The politically and economically independent association operates at a national level.

The some 2'400 members work for public authorities, engineering consultants, companies, associations and also in universities.

Central tasks of the association are the preparation and updating of technical standards and guidelines and professional training of members and staffs of sewage treatment plants.

Corresponding to the official languages of Switzerland, VSA offers services in German, French and Italian.

**EWA Council representative**

Jürg Meyer, dipl. Ing. ETH

**European Water Association (EWA)  
Yearbook 2003**

**United Kingdom**

**Water supply and sewerage systems**

	<b>Data</b>
<b>General statistical information</b>	
Total population in million inhabitants (2000)	59,755,700
Population density in inhabitants per km <sup>2</sup> (2000)	241/km <sup>2</sup>
<b>Drinking water sector</b>	
Percentage of inhabitants served (2000)	
Specific household consumption in litre per person and day (2000)	343
Origin of drinking water (2000):	
% Surface water	67%
% Groundwater	33%
% Spring water	0%
<b>Wastewater sector</b>	
Annual wastewater quantity in million m <sup>3</sup> (2000)	
Total number of inhabitants and population equivalents in 1'000 eq. (2000)	56,730,000
Percentage of total population connected to public sewer systems (2000)	94%
Percentage of total population connected to public treatment plants (2000)	94%
Wastewater treatment plants	
% of annual wastewater quantity treated with primary treatment only (2000)	1.6%
% of annual wastewater quantity treated with primary and secondary treatment only (2000)	68%
% of annual wastewater quantity treated with primary, secondary and tertiary treatment (2000)	30%

# European Water Association (EWA) Yearbook 2003

## United Kingdom



### National EWA Member Association

CIWEM

The Chartered Institution of Water and Environmental Management

#### President

Peter Treadgold

#### Executive Director

Nick Reeves

#### Secretariat

The Chartered Institution of Water and Environmental Management (CIWEM)

15 John Street

London WC1N 2EB

United Kingdom

Phone: +44 (0) 20 7831 31 10

Fax: +44 (0) 20 7405 49 67

Email: [admin@ciwem.org.uk](mailto:admin@ciwem.org.uk)

Internet: [www.ciwem.org.uk](http://www.ciwem.org.uk)

#### Description

The Chartered Institution of Water and Environmental Management (CIWEM) is an independent professional body representing managers, and other professionals who are responsible for the stewardship of environmental assets.

#### BENEFITS OF CIWEM MEMBERSHIP

- Unlimited access to the key players in environmental management across all sectors;
- A strong network of environmental professionals in your area working in your discipline or sectors you are interested in;
- Branch meetings, events and conferences on environmental and related issues;
- Special Interest Group meetings concentrating on the Environment, Scientific, and Rivers & Coastal matters;
- A website discussion forum enabling you to air your views on the hot topics of the day;
- A magazine "Water and Environment Manager" which deals with topical issues you need to know about;
- A widely recognised and authoritative Journal;
- A wide range of publications covering many environmental subjects;
- Training and professional development opportunities through CIWEM's own postgraduate Certificate and Diploma. These are unique and highly respected environmental qualifications;
- A range of professional and non-professional grades of membership, including Environmental Partner and Industry Affiliate;
- Registration for suitably qualified members with the Engineering Council or its successor body, as Chartered Engineer (CEng), Incorporated Engineer (IEng) and Engineering Technician (EngTech);
- European Registration for CEng and IEng members.

If you want to know more about us please visit our website on [www.ciwem.org.uk](http://www.ciwem.org.uk) or email [membership@ciwem.org.uk](mailto:membership@ciwem.org.uk). Alternatively telephone 44 (0) 20 7831 31210 or fax 44 (0) 20 7831 2830.

#### EWA Council representative

Peter Cook

**European Water Association (EWA)  
Yearbook 2003**



## European Water Association (EWA) Yearbook 2003

### Corporate and Supporting Members

At the European Water Association includes several Corporate Members, presented on the following pages.

The Corporate Membership within the EWA is open to commercial companies, organisations, utilities and research organisations operating in the European water management sector.

Corporate Members have the following benefits from their membership:

- They obtain a forum for establishing a dialogue with their customer base throughout Europe - 55,000 individual professional and technician members of the EWA National Member Associations.
- Access to the Network of Experts.
- Involvement in and information on European standards through EWA membership in the CEN technical committees TC 164 (drinking water), TC 165 (wastewater) and TC 308 (sewage sludge).
- Technical notes and papers, specially from the European Commission.
- Contacts to the European Commission (DG Environment and Research) and the European Environment Agency.
- European water information: Weekly email news service and access to the European Water Pollution Control Network, established in co-operation with the European Environment Agency.
- Direct link from the EWA homepage to the Member's homepage.

# European Water Association (EWA) Yearbook 2003

## Aggerverband

Aggerverband  
Sonnenstr. 40  
51645 Gummersbach  
Germany  
Phone: +49 (0) 22 61/36-0  
Fax: +49 (0) 22 61/36-8  
Email: [info@aggerverband.de](mailto:info@aggerverband.de)  
Homepage: [www.aggerverband.de](http://www.aggerverband.de)

### Description

The Aggerverband is a water association according to the regulations of the German federal state North-Rhine-Westphalia. It works in the following areas:

#### Reservoirs and drinking water supply

The Aggerverband operates two drinking water reservoirs that supply about 500.000 people per year with approximately 25 Mio. m<sup>3</sup> drinking water. A third reservoir provides 12 Mio. m<sup>3</sup> raw water annually. The service area covers 1620 km<sup>2</sup>.

#### Running waters

The protection of habitats at creeks and rivers is important to the Aggerverband. Flood protection is ensured by combining natural and integrated artificial systems.

Design and construction

The Aggerverband conducts design and operation in relation to its fields of activity. This covers waste water systems (sewage works, sewers, ...), water supply (reservoirs, water works, ...), flood protection and maintenance of water bodies.

#### Laboratory

To ensure the good drinking water quality the water works and the pipe network are monitored as well as the reservoirs and the waters that flow to the reservoirs. The control also covers the compliance with the limits in the outlets of the wastewater treatment plants and the monitoring of the quality of the running waters.

#### Wastewater

The Aggerverband runs 38 sewage treatment plants, 10 pumping installations, 150 storm water overflow tanks and 100 km sewers. The rural structure and the topography account for the high number of small and medium-sized facilities. The aim of the association is to ensure a high water pollution control at bearable costs.

#### Sewers and pipe network

Sewer cleaning was originally done for the association only, but is today also offered to municipalities as service. The Aggerverband has at its command the most modern vehicles for the cleaning of sewers and gullies and for TV inspection.

#### Perspectives

The Aggerverband wants to meet the challenge of competition in the course of the liberalisation of the water services. Its aim is to keep the high quality while reducing the costs. One tool for achieving this goal is the quality management that is currently established.

## European Water Association (EWA) Yearbook 2003

### Aquadia



#### Contact information

Address:

De Entrée 11/13  
1101 BH Amsterdam  
The Netherlands

Phone: 0031 (0)20 650 7007

Fax: 0031 (0)20 650 7126

E-mail: [info@aquadia.com](mailto:info@aquadia.com)

Homepage: [www.aquadia.com](http://www.aquadia.com)

#### Description

Aquadia is a 'next generation' marketplace creating value for its customers by driving awareness and delivering tangible benefits from its online solutions: Sourcing & Auction, Procurement, Collaboration and Business Information.

Its mission is to become the Water Industry's preferred online marketplace bringing together buyers, suppliers, contractors and other industry professionals to create the definitive dynamic knowledge and trading community.

Aquadia is an independent company, backed by Thames Water and Ondeo, two of the world's leading companies in water-related services.

#### Range of Products

Aquadia aims to support the business activities of key water industry players by providing a range of "best of breed" business solutions that enable them to efficiently manage their procurement activities from concept need through to contractual transacting:

- Sourcing & Auction toolset
- Procurement & Purchasing toolset
- Consultancy for eProcurement projects
- Support & Training
- Collaboration
- Business Industry Information

## European Water Association (EWA) Yearbook 2003

### Canal de Isabel II

Santa Engracia, 125  
28003 Madrid  
Spain  
Phone: +34 914 451 000  
Fax: +34 914 479 393  
Email: [webmaster@cyii.es](mailto:webmaster@cyii.es)  
Homepage: <http://www.cyii.es/>

### Emschergenossenschaft and Lippeverband



Kronprinzenstr. 24  
45128 Essen  
Germany  
Phone: +49 (0)201/104-0  
Fax: +49 (0)201/104-2277  
Email: [emscher@eglv.de](mailto:emscher@eglv.de)  
Homepage: [www.emschergenossenschaft.de](http://www.emschergenossenschaft.de)  
[www.lippeverband.de](http://www.lippeverband.de)

#### Description

The Emschergenossenschaft and Lippeverband is a water company for the catchment area of the Emscher River and the Lippe River and its tributaries. Emschergenossenschaft and Lippeverband is the largest Association for the disposal of wastewater in Germany.

Emschergenossenschaft and Lippeverband is a non-profit company in the form of a self-managed corporation under public law, controlled by its members.

#### Range of Products

- Regulation of the water drainage and compensation of the water flow
- Flood protection
- Wastewater purification
- Maintenance of the bodies of water and natural landscaping of improved water courses
- Regulation of the groundwater level

The Emschergenossenschaft and Lippeverband plans, constructs and operates wastewater treatment plants, pumping stations, dikes, sewers and rain reservoirs and maintains the bodies of water in its catchment area. The Association co-ordinates planning closely with its members. River Basin Management as required by the EU Water Framework Directive has already been implemented on the Emscher and the Lippe river.

## Fachgemeinschaft Guss-Rohrsysteme



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Wittestrasse 30 K, D-13509 Berlin  
Phone: +49/30/435 72 580  
Fax: +49/30/435 72 400  
Email: [fgr-berlin@t-online.de](mailto:fgr-berlin@t-online.de)  
Homepage: <http://www.gussrohrtechnik.de>

### **Description**

Technical and scientific association of the German manufacturers of ductile iron pipes, fittings and accessories

### **Range of Products**

Ductile iron pipes, fittings and accessories for transport of drinking water, waste water and gas

### **Work in the EWA**

Co-operation in the field of standardisation, education (lessons, seminars, exhibitions etc.) publications, edition of manuals, CDs.

**European Water Association (EWA)  
Yearbook 2003**

**Gesellschaft zur Förderung der Abwassertechnik e.V.**

Publishing Company of ATV - DVWK  
Wastewater, Waste and Water management

Theodor-Heuss-Allee 17  
53773 Hennef  
Germany  
Phone: +49 (0)2242 872 0  
Fax: +49 (0)2242 872 135  
Email [lumma@atv.de](mailto:lumma@atv.de)  
Homepage: [www.atv-dvwk.de](http://www.atv-dvwk.de)

**Hydrocomp**

Hydro-Comp Enterprises  
Utilities Information Technology  
Consulting & Knowledge Transfer  
Mr. Dipl.-Met Johan Allaert  
249 Strovolos Avenue  
2048 Nicosia  
Cyprus  
Phone: +357 22 478500  
Fax: +357 22 478578  
Email [johana@hydro-comp.com](mailto:johana@hydro-comp.com)  
Homepage: [www.hydro-comp.co](http://www.hydro-comp.co)

**Description:**

Hydro-Comp Enterprises is a unique information technology (IT) company that specialises in integrated business solutions that address the management, engineering and operational efficiency of Utility Services Providers. The Hydro-Comp business solution embodies a combination of business practices, engineering methodologies and information systems, effectively marrying technology with knowledge, in order to provide Utilities with the optimum permutation of business efficiency solutions.

## European Water Association (EWA) Yearbook 2003

### Messe München GmbH

Messe München GmbH  
Messegelände  
81823 München  
Phone: +49 (0)89 949 0 20720  
Email: [newsline@messe-muenchen.de](mailto:newsline@messe-muenchen.de)  
Homepage: [www.messe-muenchen.de](http://www.messe-muenchen.de)



#### Description

Messe München is one of the world's leading trade fair companies. The programme of events with some 40 trade fairs and exhibitions includes international trade fairs that focus on capital goods, new technologies, high-quality consumer goods and the crafts. In addition around 280 German guest events and more than 130 congresses and conferences are held in Munich each year. IFAT 2002 shows specialist problem solutions and the latest state of technology for implementing practical and economical measures, together with a wide range of qualified services in the fields of water, sewage and waste management.

#### Range of Products

*Water and sewage:* Water extraction, Water and sewage treatment, Mechanical-physical processes, Chemico-physical processes, Biochemical processes, Treatment of sludge and residues, Water pipes and drains, Pipes, manholes, Pipe laying and repair, Sewer inspection, cleaning, maintenance, Pumps and lifting tackle, Outlets and fittings

*Refuse disposal and recycling:* Refuse collection and transport, Containers, Vehicles and superstructures, Transfer equipment and plant, Refuse treatment and recycling, Mechanical-biological treatment, Thermal utilization, Composting/fermentation, Tipping, Recycling and reuse of materials, Waste disposal services, Safety at work

*Public cleansing and winter road services:* Street cleansing and services, Winter road services

*Decontamination of old sites:* Registration, assessment, monitoring, Decontamination

*Measurement, control and laboratory technology:* Laboratory equipment, Measuring equipment, Analysis equipment, Control equipment, Process control for water, sewage, refuse and air

*Flue-gas scrubbing and air extraction*

*Services:* Disposal services, Water supply and sewage disposal, Consultancy, environmental management, eco-auditing, Financing, Computer hardware and software, Analysis laboratories

*Education and research:* Associations and institutions, Research institutes, Specialist publishers, trade literature, Training and education

#### Work in the EWA

IFAT promotes the integration of the various fields of operation, allowing visitors and exhibitors alike to gain an up-to-date view of what is happening on the international market. The IFAT advisory board is made up of representatives from the exhibitors, the most important German and international associations and institutions like EWA, European Water Association, and Messe München. The fair provides a meeting location for qualified exhibitors and interested visitors to share knowledge and engage in a lively exchange of experiences, supported by a programme of national and international trade conferences and symposia. Important event in the congress programme is the 12<sup>th</sup> European Symposium on Solid and Liquid Waters presenting new methods in the water, wastewater and refuse management industries.

**Further information:** [www.ifat.de](http://www.ifat.de)

**European Water Association (EWA)  
Yearbook 2003**

**Painehuuhtelu Oy PTV**

Mr. Sakari Kuikka  
Managing Director  
Alaniityntie 6  
1900 Nurmijärvi  
Finland  
Phone: + 358 9 2902 23 0  
Fax: + 358 9 2902 23 33  
Email painehuuhtelu@painehuuhteluptv.fi

**Description**

Painehuuhtelu Oy PTV is a privately owned Finnish company active in condition assessment and evaluation of water and waste water networks and maintenance of these assets with different methods according to the requirements of the work site. Besides the Finnish market the main markets are the Russian Federation and the Baltic States where the company has worked in several different multi – or bilaterally financed water and sanitation projects since the beginning of 1990's (the World Bank, EBRD, PHARE, Tacis, Finnish Ministry of Environment, local budgetary financing).

Painehuuhtelu employs a professional staff of 20 people. The annual net sales is EUR 2,5 million. The company has a comprehensive fleet of different TV-inspection and sewer cleaning units developed to work in cold, minus degree conditions..

Painehuuhtelu is also active in R & D projects with international partnerships. One of the most significant projects is the next generation digital condition evaluation of pipeline systems called "Sewer Scanner and Evaluation Technology". This system provides most accurate data of the condition of the pipeline. There is an automatic interpretation system to determine the defects, damages etc (no human eye evaluation) and the reporting is made in digital form immediately at the work site and transferred instantly e.g. to the waterworks emergency call office. Also the data from surveys from different times from the same work site are comparable and the changes can be measured.



## European Water Association (EWA) Yearbook 2003

### **RWE Aqua GmbH**

#### **Thames Water**

Mr. Claus Mertes

Am Schloss Broich 1-3

45479 Mülheim an der Ruhr

Germany

Phone: +49 201 121 47 53

Fax: +49 021 121 47 13

Homepage: [www.rweaqua.com](http://www.rweaqua.com)

#### **Description:**

RWE Aqua is a subsidiary of Thames Water which is the leading company for all of RWE's water business. RWE was exclusively an electricity producer at the time of its founding. Already in 1914 RWE had established its first public drinking-water systems and has since then steadily expanded. Today RWE Aqua is the leading German water and wastewater company and has for a long time been offering customised systems for drinking-water supply and solutions for wastewater management far beyond Germany's borders.

The areas of competence of Thames Water and RWE Aqua are clearly differentiated. On account of RWE Aqua's great store of experience in Germany and Eastern Europe, the RWE Aqua brand will lead in those areas, while Thames Water will drive RWE's water business in the rest of the world.

In coming years, more than EUR 150 Billion must be spent on pipe networks and sewage works in Germany alone. And in the process, RWE Aqua can help community water suppliers from being left financially high and dry. Various partnership models with RWE Aqua get things flowing again. As a competent partner and advisor, we make our expertise available to corporations responsible for water supply and wastewater disposal. Through the bundling of planning, financing, construction, participation and the provision of efficient management, RWE Aqua can offer complete, but never generalised solutions to satisfy not only given local conditions, but also environmental-policy and public-health requirements. And all of this at prices for water which remain reasonable for our citizens.

RWE Aqua provides through a public-private partnership model water to Berlin. The Budapest waterworks are managed and operated by a private consortium which is largely run by RWE Aqua, and Croatia's first large biological sewage treatment plant in Zagreb will be build and operated by RWE Aqua as well.

**European Water Association (EWA)  
Yearbook 2003**

**SANEST**

**Saneamento da Costa do Estoril, S. A.**



**Contact information**

Address        Rua Flor da Murta, 2770-064 Paço de Arcos, Portugal  
Phone:        +351-21-446 21 00  
Fax:            +351-21-446 22 70  
E-mail:        sanest@sanest.pt  
Homepage:    www.sanest.pt

**Description**

SANEST is a private company whose capital is shared by *Águas de Portugal, sgps* (a governmental holding) and four municipalities near Lisbon (Amadora, Cascais, Oeiras and Sintra).

**Range of Products**

SANEST is an operator company responsible for the wastewater collection, treatment and disposal by a long sea outfall of a population about 720 thousand p.e. in the neighbourhood of Lisbon.

**Work in the EWA**

Corporate Member

# European Water Association (EWA) Yearbook 2003

## Tuttahs & Meyer

Bismarckstrasse 2-8,  
D-52066 Aachen, Germany  
Phone: +49 / (0)241 / 50 00 05  
Fax: +49 / (0)241 / 53 54 88  
Homepage: [www.tuttahs-meyer.de](http://www.tuttahs-meyer.de)  
Email: [info@tum-aachen.de](mailto:info@tum-aachen.de)

### Description

TUTTAHS & MEYER Ingenieurgesellschaft mbH provides Engineering and Consulting Services for the entire Water Management Cycle, from planning, design and construction supervision to site management and operation. Our customers are associations, municipalities, water works, public authorities as well as local and international enterprises. The elaboration of comprehensive research and development measures as well as the participation in various professional groups are the basis for TUTTAHS & MEYER's implementation of innovative, future oriented solutions. Since our establishment in 1948, the company developed into an efficient, internationally operating consulting firm with 80 highly qualified employees and an annual turnover of seven million € for the year 2002.

### Fields of Expertise

#### 1. Surface and Underground Water Management

With the introduction of the new European Union Water Framework Directive, the importance of careful management and the need for a long-term strategy, with focus on the amelioration of surface water conditions, becomes apparent. With their implementation of this directive, TUTTAHS & MEYER support their clients with traditional and innovative engineering concepts and services.

#### 2. Water Supply

TUTTAHS & MEYER, Consulting Engineers, began their activities in the field of water management during the post-war period. Our scope of expertise ranges from initial conception works to complex re-investment projects for major German water works and also includes the reconstruction and rehabilitation of water supply networks abroad. We offer the highest professional standards in design and implementation as well as economically feasible solutions in all of our projects.

#### 3. Wastewater Engineering

As a specialised engineering firm for waste management in the water sector, we develop and perform tailor-made concepts for the treatment and discharge of both storm- and wastewater. TUTTAHS & MEYER's team of engineers has a substantial level of expertise, which covers the entire wastewater cycle enabling the development of optimised solutions for discharge, treatment and purification.

#### 4. Natural Resources Management

TUTTAHS & MEYER develop solutions specifically for the energy sector, which not only prove to be technically and economically feasible but also ecologically sustainable. In close co-operation with European Universities and Research Institutes, TUTTAHS & MEYER undertake the management of ecological R&D initiatives in the water sector, which are funded by the German Government and the European Union.

#### 5. Consulting Services

As an independent and experienced firm of Consultant Engineers, TUTTAHS & MEYER is in the position to offer a wide range of consultancy services, covering the entire technical and economical environment of international projects and programmes. We design, implement and monitor projects related to urban and rural water supply, water management, wastewater treatment, waste management and the energy sector.

**European Water Association (EWA)  
Yearbook 2003**

**Unie van Waterschappen**

Postbus 80200  
2508 GE Den Haag  
Niederlande  
Phone: Phone: +31 70 351 97 51  
Fax: Fax: +31 70 354 46 42  
Email: [info@uvw.nl](mailto:info@uvw.nl)  
Homepage: [www.uvw.nl](http://www.uvw.nl)

**Wupperverband**



Dipl.-Ing. Bernd Wille  
Managing Director  
Zur Schafbrücke 6  
42283 Wuppertal  
Germany  
Phone: +49 202 583-222  
Fax: +49 202 583-317  
Email: [info@wupperverband.de](mailto:info@wupperverband.de)  
Homepage: [www.wupperverband.de](http://www.wupperverband.de)

**Description**

The Wupper River Association is responsible for the water and wastewater management in the Wupper catchment area, including flood protection, low water augmentation, wastewater treatment, river engineering, and reservoir building/reservoir management.

**Range of Products**

- Design, building and operation of wastewater treatment plants
- Design, building and operation of sewers and stormwater tanks
- Design, building and operation of reservoirs
- River engineering/river rehabilitation
- Water quality monitoring
- Water and wastewater management
- Research and development
- GIS (ARC-IMS)
- Advisory service for industrial and municipal institutions

**European Water Association (EWA)  
Yearbook 2003**

**European Water Association (EWA)  
Yearbook 2003**

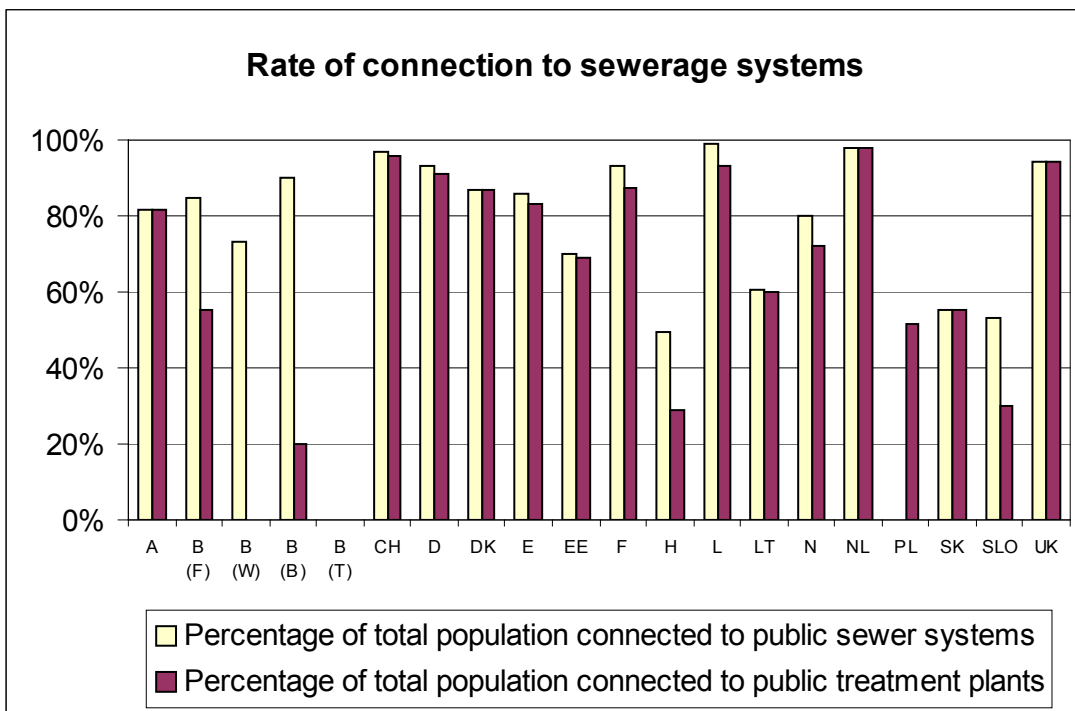
## Comparison of Relevant Data

This section aims to make possible an easy comparison of the data given before. Such a visualisation makes possible a quick comparison of water data in the different countries. This comparison can only be a rough one as the year of data as indicated in the prevision section is quite often different and the collection of data may also have been different in the countries.

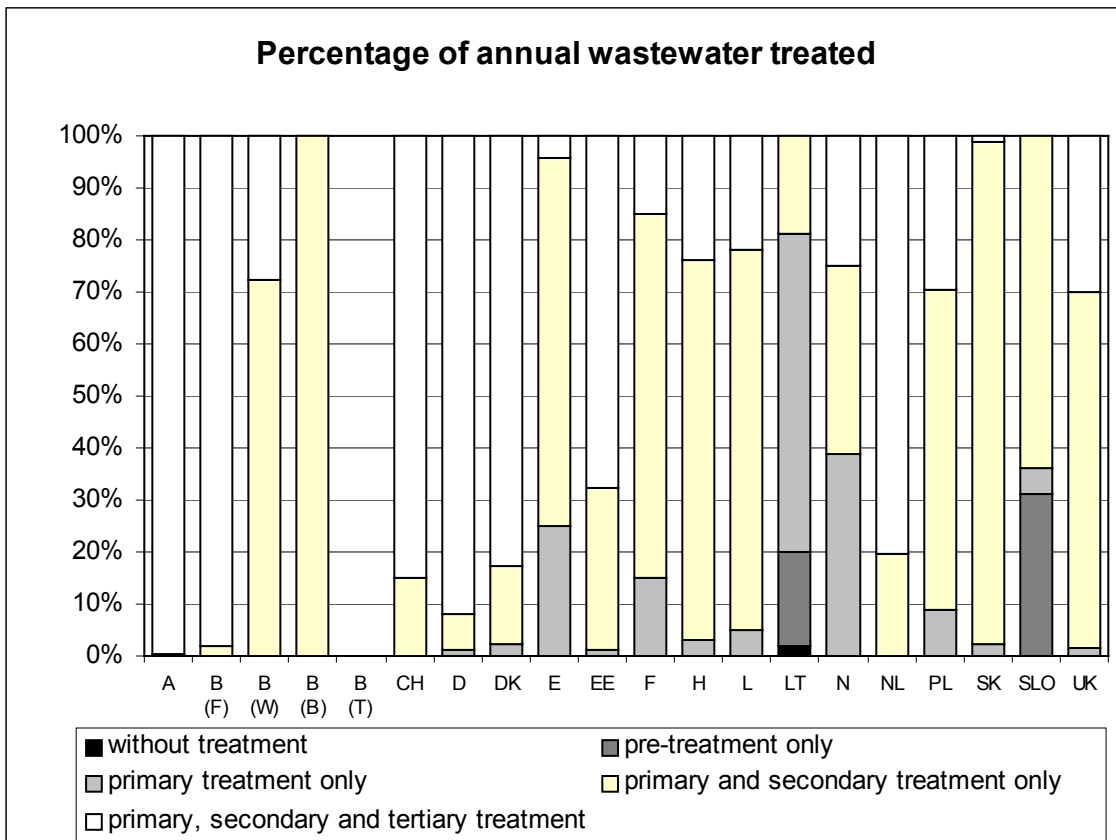
The detailed database can be downloaded on the EWA homepage ([www.EWAonline.de](http://www.EWAonline.de)).

Legend:			
D	Germany	F	France
A	Austria	H	Hungary
B (F)	Belgium, Region of Flanders	L	Luxembourg
B (W)	Belgium, Region of Wallonia	LT	Lithuania
B (B)	Belgium, Capital of Brussels	N	Norway
B (T)	Belgium, total country	NL	Netherlands
CH	Switzerland	PL	Poland
DK	Denmark	SLO	Slovenia
E	Spain	SK	Slovak Republic
EE	Estonia	UK	United Kingdom

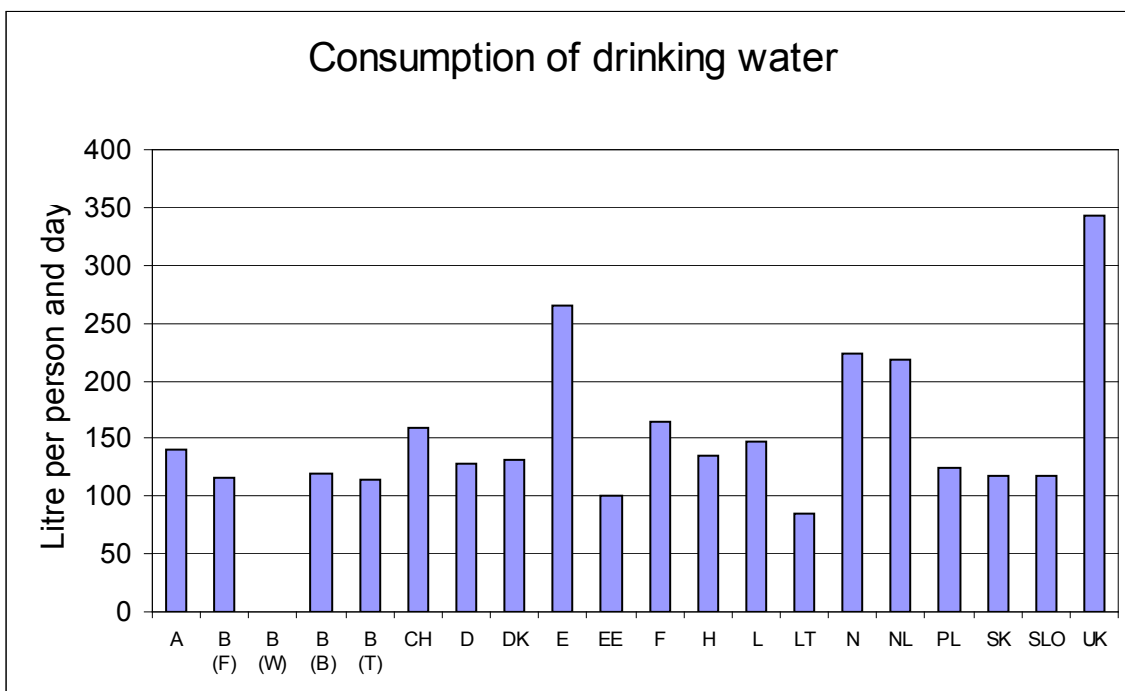
## Wastewater Sector



## European Water Association (EWA) Yearbook 2003



## Drinking Water Sector



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