



**Specialist Group**  
Statistics and  
Economics

# International Statistics for Water Services

Beijing 2006

This brochure on International Statistics for Water Services has been prepared by the IWA Specialist Group on Statistics and Economics.

AVERAGE ANNUAL WATER BILL 2005\*

(in US\$ / 200M<sup>3</sup>)

**T**he international Water Association (IWA) is the global network of water professionals, with the aim of exchanging the scientific and professional experiences of academics and water industry managers, covering all aspects water cycle. In pursuit of this aim IWA, supported by technical and scientific committees and specialist groups, organises world and regional conferences.

The Statistic and Economic Specialist Group Provides forum to discuss and compare the ways in which utilities are financed, the variety of water tariff structures in use d the means by which performance can be measured. As part of this service, the group prides statistics to the water industries of various countries, including figures for abstraction, consumption and tariffs. This also includes information on sewerage and wastewater treatment.

This brochure on International Statistics for Water Services is part of a series of documents circulated at previous IWA World Water Congresses (available to download from the IWA website).

Notwithstanding the the successful welcome the survey gained at last international event in Marrakech we regret that the number of respondents countries is constantly lowering so preventing the IWA community to periodically update important information and compare international contexts.

The prices compared in the report are presented from the point of view of the domestic customer, whose main interest is the amount of the water bill. Such a comparison allows the actual charges to be compared in relation to the GDP of each country.

The prices do not, however, necessarily provide a true comparison of the full costs of providing water services, because some costs may be recovered from sources other than the customer. In some cases there may be political motivation to ensure that water is supplied at a socially acceptable price. There are many other factors which affect relative price levels; and these have not been considered in this survey.

As in the previous studies, the prices are referred to a domestic annual consumption of 200 m<sup>3</sup> per year. Where the supply in a particular country is normally unmeasured, the average price of that country has been used.

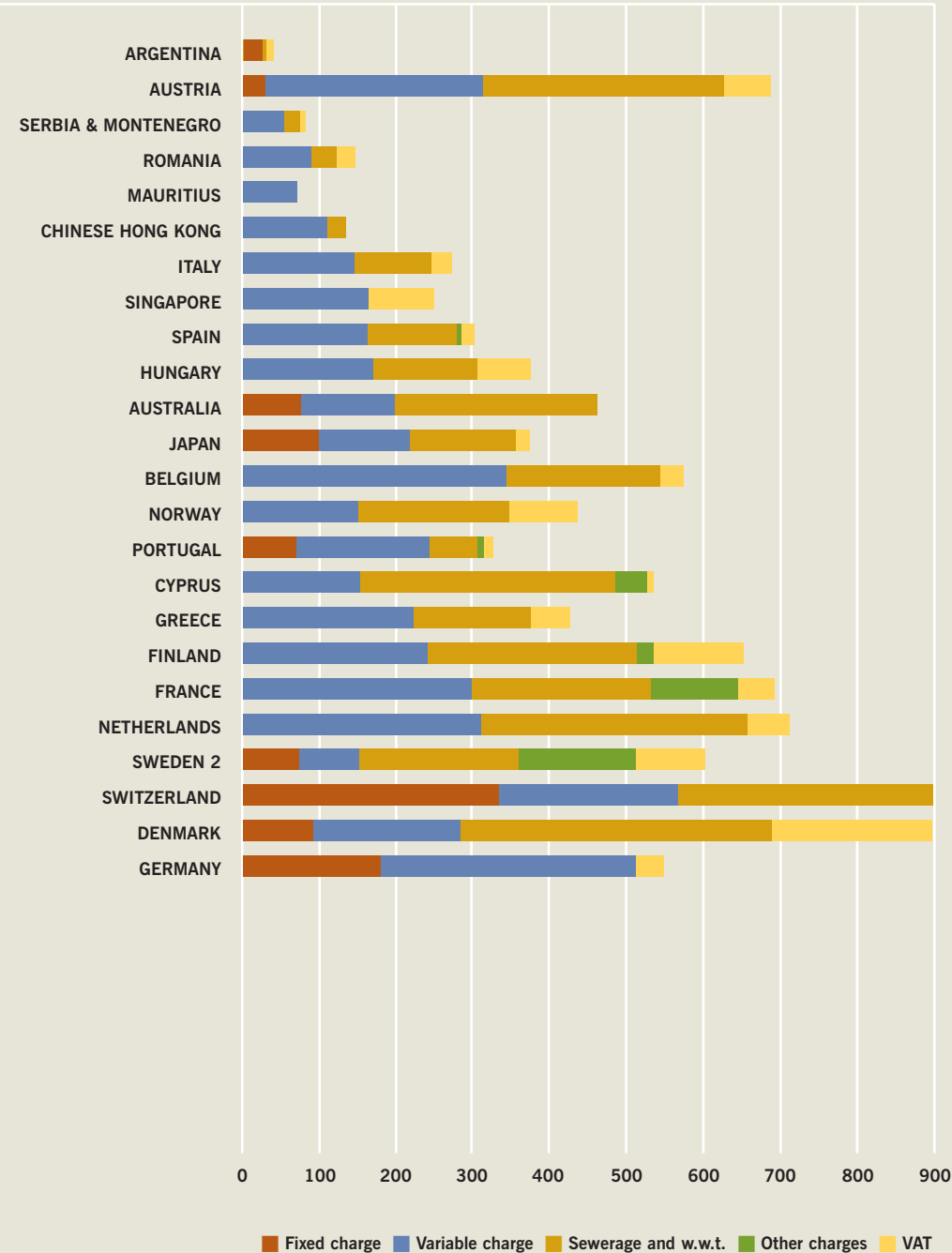
The prices refer to 2005 figures, are quoted in US\$ as at 31 December 2005 and even reflect the general double digit US\$ depreciation against the figures represented into the past leaflet. The other information refers to 2004 figures.

A list at the back page of the leaflet identifies the people or the water organisations from which the data in the survey have been obtained. The specialist Group has not been able to undertake any further verification.

When information for previously produced leaflets compared, it may be possible to observe trends. Further useful statistics and information may be found by browsing the IWA website.



**Specialist Group**  
Statistics and  
Economics



\*Average volume of considered main cities in the Country

<sup>2</sup> Stockholm Water Organisation

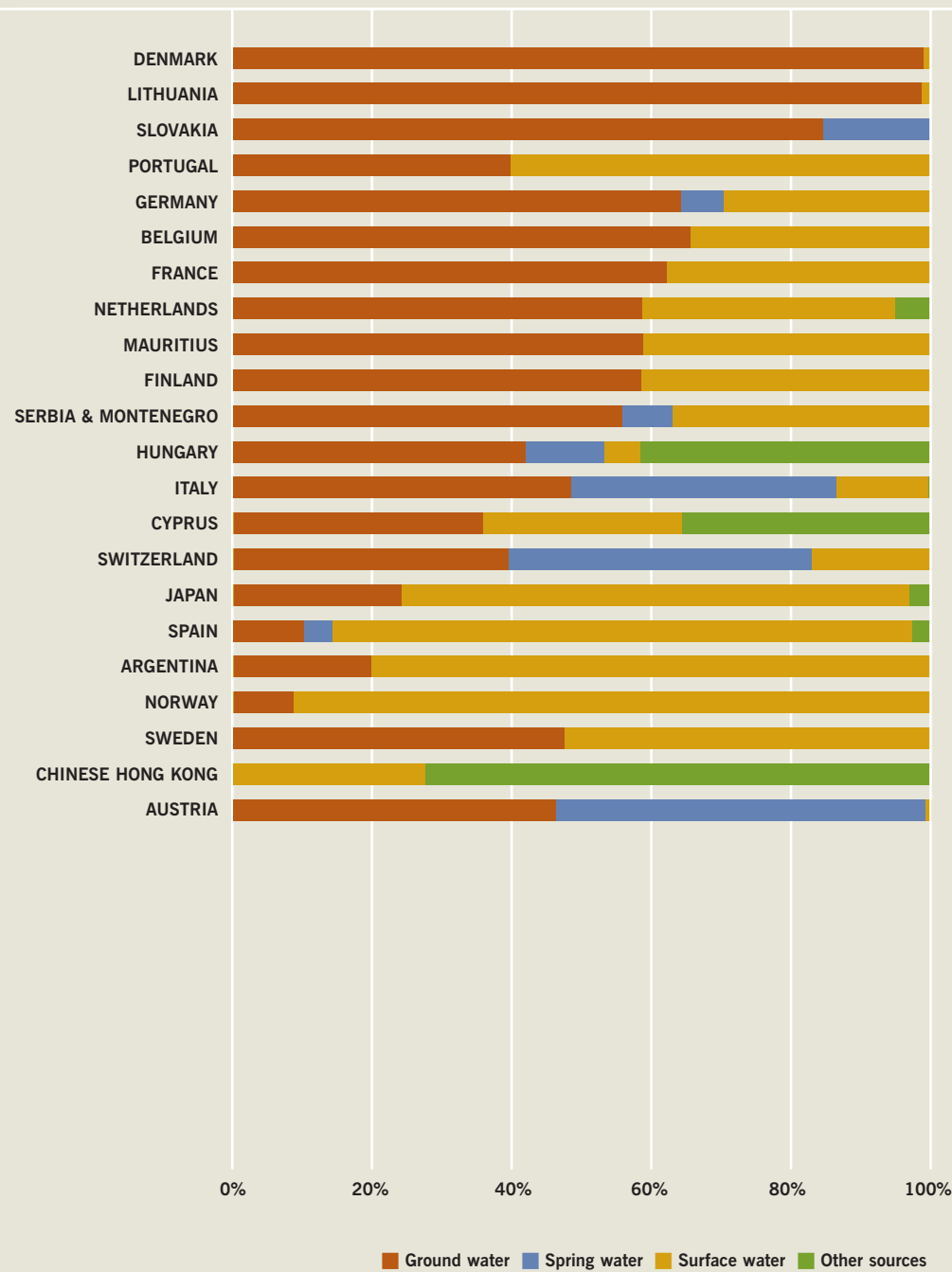




## ABSTRACTION FOR WATER SUPPLY ACCORDING TO SOURCE IN M<sup>3</sup> / YEAR

COUNTRY	TRUE GROUND WATER		SPRING WATER		SURFACE WATER		OTHER SOURCES		TOTAL WATER ABSTRACTION	
	2002	2004	2002	2004	2002	2004	2002	2004	2002	2004
ARGENTINA	839	943		0	4,905	3,773			5,744	4,716
AUSTRALIA	7,099	n/a		n/a	24,000	n/a	3,042	n/a	34,141	n/a
AUSTRIA		258		293		4		0		555
BELGIUM	466	482		0	254	252		0	720	734
BULGARIA	538		130		692		24		1,384	0
CHINESE HONG KONG		0	236	0	252	298	744	770	1,232	1,068
CHINESE TAIWAN	515				2,514		2		3,032	0
CYPRUS	33	30			14	23	30	29	76	82
DENMARK	413	405		0	3	4			416	409
FINLAND	249	256		0	175	180		0	424	437
FRANCE	3,659	3,659		0	2,212	2,212		0	5,871	5,871
GERMANY	3,575	2,753	495	261	1,430	1,264		0	5,500	4,278
GREECE										7,518
HUNGARY	405	304		82	43	37	294	301	742	724
INDIA										0
ITALY	3,573	4,441	3,176	3,463	1,191	1,215		27	7,941	9,147
JAPAN	4,148	3,993	485	0	12,049	11,822		479	16,682	16,294
LITHUANIA	124	132		0	1	2		0	125	134
LUXEMBOURG	7		17		13				37	0
MACAU					54				54	0
MAURITIUS	93	117		0	61	82		0	153	199
MEXICO	0				0				9,632	0
MOROCCO	331				492		3		826	0
NETHERLANDS	755	709		0	447	438	32	61	1,234	1,208
NORWAY	73	73		0	735	735			808	808
POLAND	143				74				217	0
PORTUGAL		514		0		771		0		1,286
ROMANIA	0	n/a	632	n/a	14,718	n/a	n/a	n/a	15,350	1,786
SERBIA & MONTENEGRO	556	556	70	70	368	368		0	994	994
SINGAPORE		n/a		n/a		n/a		n/a		n/a
SLOVAKIA	332	299		55	63	0		0	395	353
SOUTH AFRICA 1					2				2	0
SOUTH KOREA	899				10,118				11,017	0
SPAIN	793	443	144	172	3,069	3,500	153	115	4,159	4,230
SWEDEN 2		430		0	141	470		0	141	900
SWITZERLAND	379	408	486	445	150	176		0	1,015	1,029
UNITED KINGDOM									7,894	0
OHIO (USA)					93				93	0

## ABSTRACTION SOURCE FOR DRINKING WATER SUPPLY



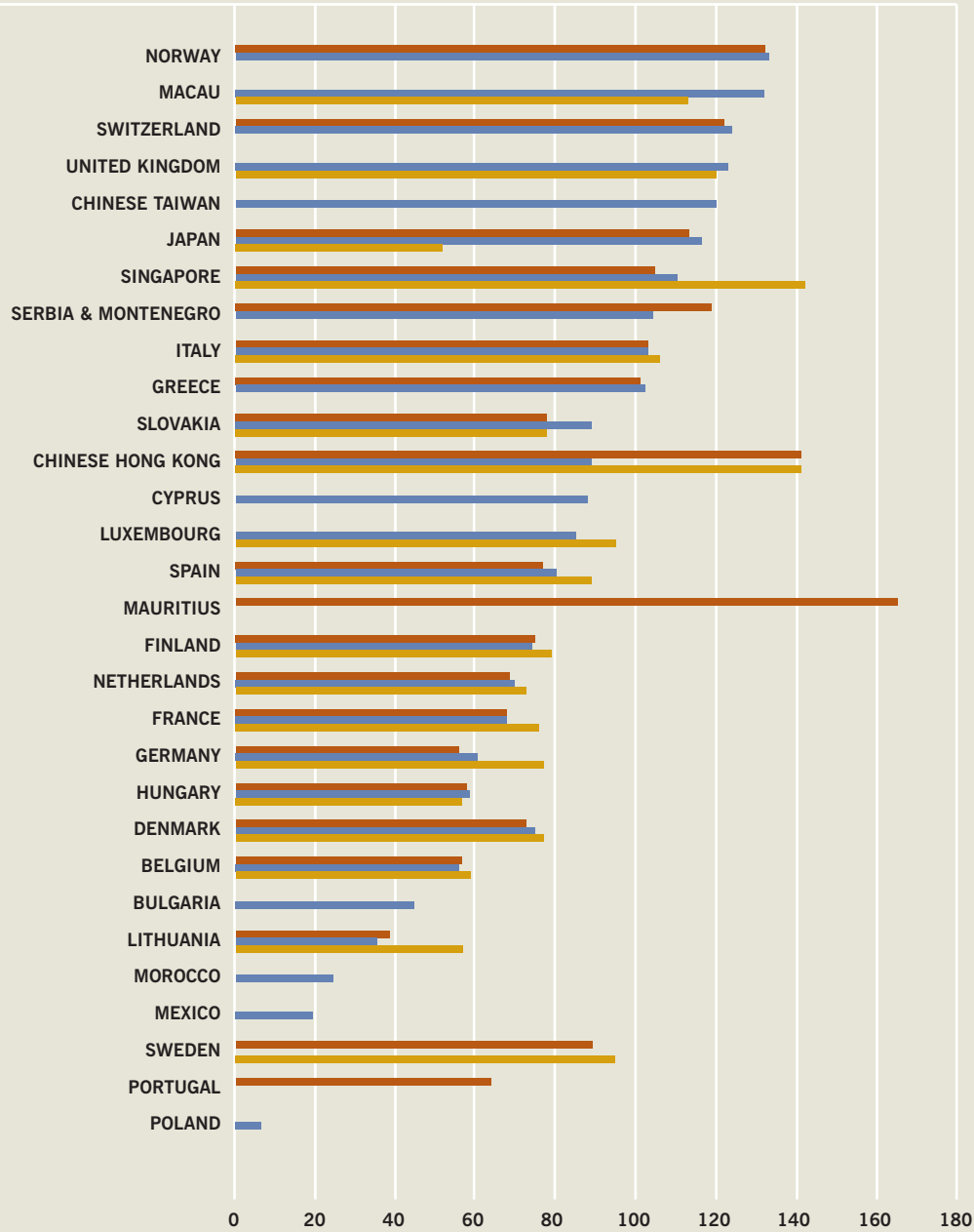
<sup>1</sup> Rand Water

<sup>2</sup> Stockholm Water Organisation

Ground water Spring water Surface water Other sources

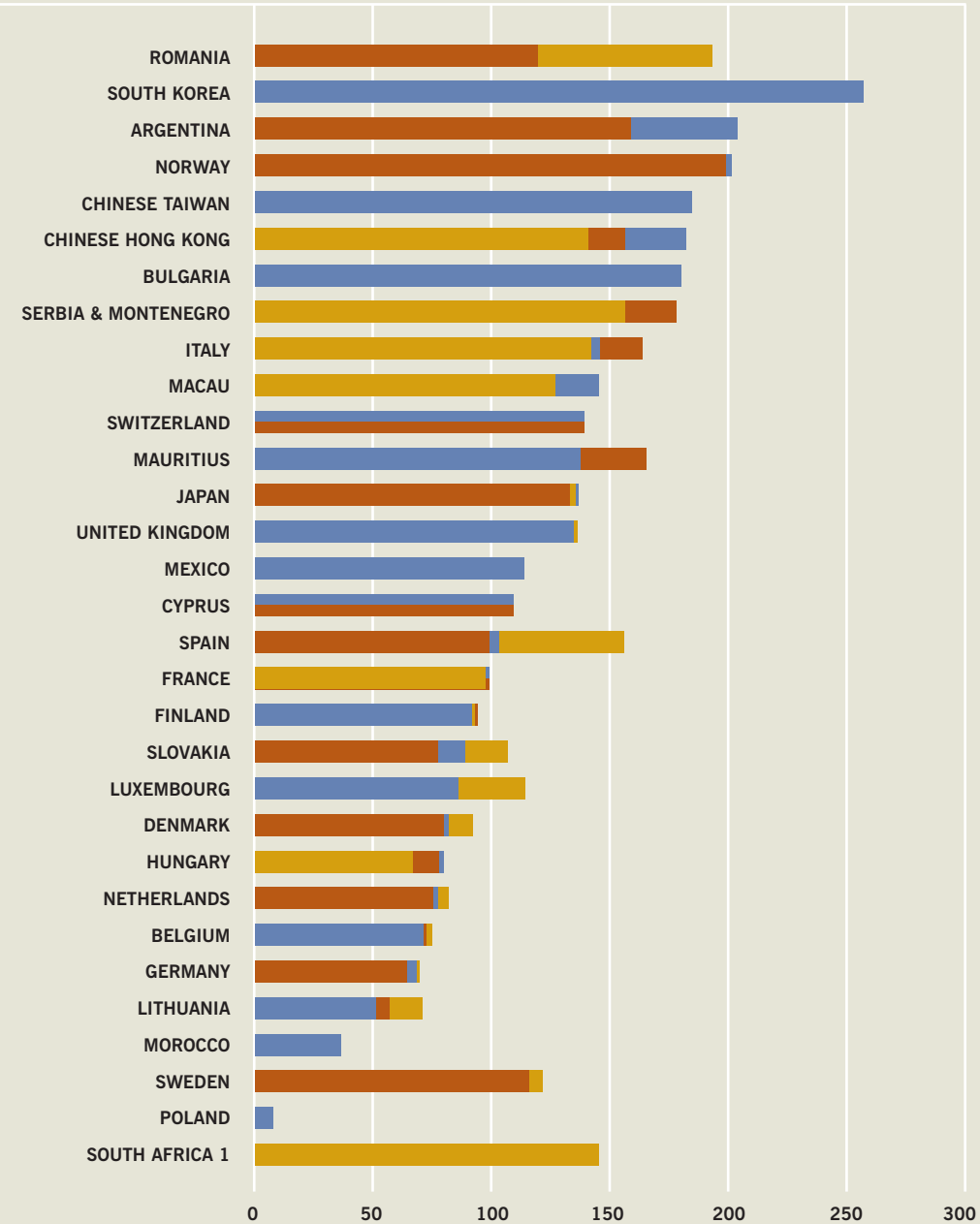
## TOTAL WATER DELIVERED IN M<sup>3</sup> / CAPITA / YEAR

TOTAL DELIVERY / (POPULATION X SUPPLY RATE)



## TOTAL ABSTRACTION FOR WATER SUPPLY IN M<sup>3</sup> / CAPITA / YEAR

TOTAL ABSTRACTION / (POPULATION X SUPPLY RATE)



M<sup>3</sup> / Capita / Year 2004 2002 1997

<sup>2</sup> Stockholm Water Organisation

M<sup>3</sup> / Capita / Year 2004 2002 1997

1 Rand Water

## WATER DELIVERED - POPULATION SEWER CONNECTION - WASTE WATER CONNECTION

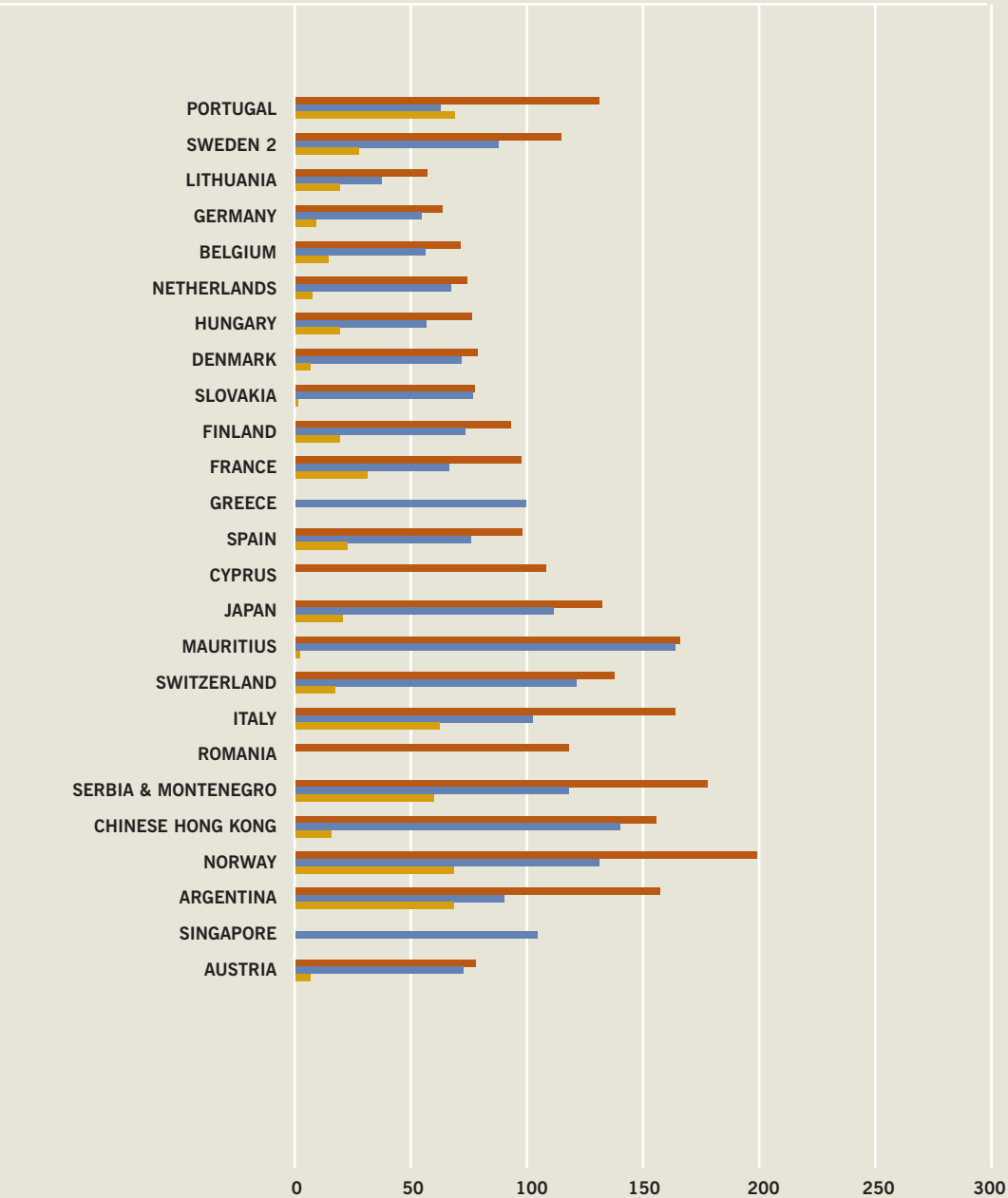
IN M<sup>3</sup> / YEAR

COUNTRY	HOUSEHOLD AND SMALL BUSINESSES		INDUSTRY AND OTHERS		TOTAL DELIVERY		POPULATION M INHABITANTS		SUPPLY RATE IN %		SEWER CONN. RATE %		WASTE WATER CONN. RATE %		DELIVERED IN Cu M/CAPITA. YEAR	
	2002	2004	2002	2004	2002	2004	2002	2004	2002	2004	2002	2004	2002	2004	2002	2004
POLAND	163	0	15	0	177	0	38.63	0.00	83.35	0	57.64	0	56	0	6	
PORTUGAL						623		10.53		93.3		n/a		n/a		63
SWEDEN 2	66	565	18	125	85	690	8.94	9.01	100	87	100	85	100	85	9	88
MEXICO	960	0	690	0	1,650	0	97.48	0.00	87.8	0	76.2	0	21	0	19	
MOROCCO	422	0	126	0	548	0	29.63	0.00	78.3	0	70	0	5	0	24	
LITHUANIA	56	57	31	34	87	91	3.50	3.41	72	70	59	60	54	58	35	38
BULGARIA	255	0	82	0	337	0	7.85	0.00	98.8	0	68.4	0	38.7	0	44	
BELGIUM	387	400	172	177	560	577	10.36	10.45	99	99	0	81.5	70	50	55	56
DENMARK	247	244	134	129	381	374	5.37	5.40	96	96	91.5	90	99.5	90	74	72
HUNGARY	381	375	165	160	546	535	10.14	10.10	93	93.7	56.1	62.2	0	n/a	58	57
GERMANY	3,790	3,019	995	690	4,785	3,709	82.54	82.50	98	81.5	0	n/a	93	n/a	59	55
FRANCE	0	n/a	0	n/a	4,000	4,000	60.00	60.00	100	100	95	95	76	76.2	67	67
NETHERLANDS	934	930	181	172	1,115	1,103	16.11	16.20	100	100	99	98.6	99	98.6	69	68
FINLAND	289	298	51	53	340	350	5.21	5.23	89.4	89.8	80.7	81.1	80.7	81.1	73	74
MAURITIUS	70	166	18	31	88	197	1.13	1.21	99.6	99.7	0	n/a	0	n/a	78	164
SPAIN	2,237	2,333	982	963	3,220	3,295	40.85	43.20	100	100	89	92	60	74	79	76
LUXEMBOURG	29	0	8	0	37	0	0.44	0.00	99.9	0	99	0	94	0	84	
CYPRUS	58	n/a	3	n/a	61	n/a	0.70	0.76	100	100	42	53	42	53	87	
CHINESE HONG KONG	304	n/a	297	n/a	601	968	6.82	6.90	99.9	100	97	95	97	95	88	140
SLOVAKIA	185	268	210	85	395	353	5.38	5.38	83.65	84.9	55.2	56.3	52.4	54.7	88	77
GREECE	784	784	307	307	1,091	1,091	10.96	10.96	99	99	0	n/a	65	n/a	101	100
ITALY	4,881	4,924	729	768	5,610	5,692	57.32	57.70	96	97.06	84	84	73	73	102	102
SERBIA & MONTENEGRO	556	556	106	106	662	662	7.50	8.12	85.4	69.2	60	62.7	10	13.6	103	118
SINGAPORE	253	251	207	189	460	440	4.20	4.24	100	100	100	100	100	100	109	104
JAPAN	12,671	12,060	1,460	1,820	14,132	13,880	127.18	127.66	96.7	96.9	65.2	68.1	65.2?	68.1	115	112
CHINESE TAIWAN	1,421	0	543	0	1,964	0	18.60	0.00	88.99	0	0	0	0	0	119	
UNITED KINGDOM	3,300	0	3,900	0	7,200	0	59.23	0.00	99.6	0	94	0	92.8	0	122	
SWITZERLAND	627	631	279	275	907	906	7.35	7.46	100	100	n/a	96.7	96	96.7	123	121
MACAU	0	0	0	0	49	0	0.44	0.00	85	0	0	0	0	0	131	
NORWAY	307	307	226	226	533	533	4.55	4.58	89	89	82	82	73	73	132	131
SOUTH KOREA	5,478	0	214	0	5,692	0	48.57	0.00	88.7	0	75.8	0	70	0	132	
ARGENTINA	0	n/a	0	n/a	3,923	2,695	36.26	38.22	78.4	78.4	48	42	n/a	n/a	138	90
ROMANIA	4,791	n/a	3,454	n/a	8,245	n/a	21.70	21.65	70	70	93	54	94	44	543	
SOUTH AFRICA 1	1	0	0	0	1	0	45.00	0.00	22.22	0	0	0	0	0	0	
OHIO (USA)	34	0	18	0	53	0	11.37	0.00	0	0	0	0	71	0		
AUSTRALIA	25,606	n/a	8,535	n/a	34,141	n/a	19.88	20.40	70.2	n/a	0	n/a	n/a	n/a	n/a	n/a
AUSTRIA	0	n/a	0	n/a	0	511	0.00	8.18	0	87	0	88.9	0	88.9	72	
INDIA	0	0	0	0	0	0	1045.80	0.00	87.25	0	21	0	21	0	0	

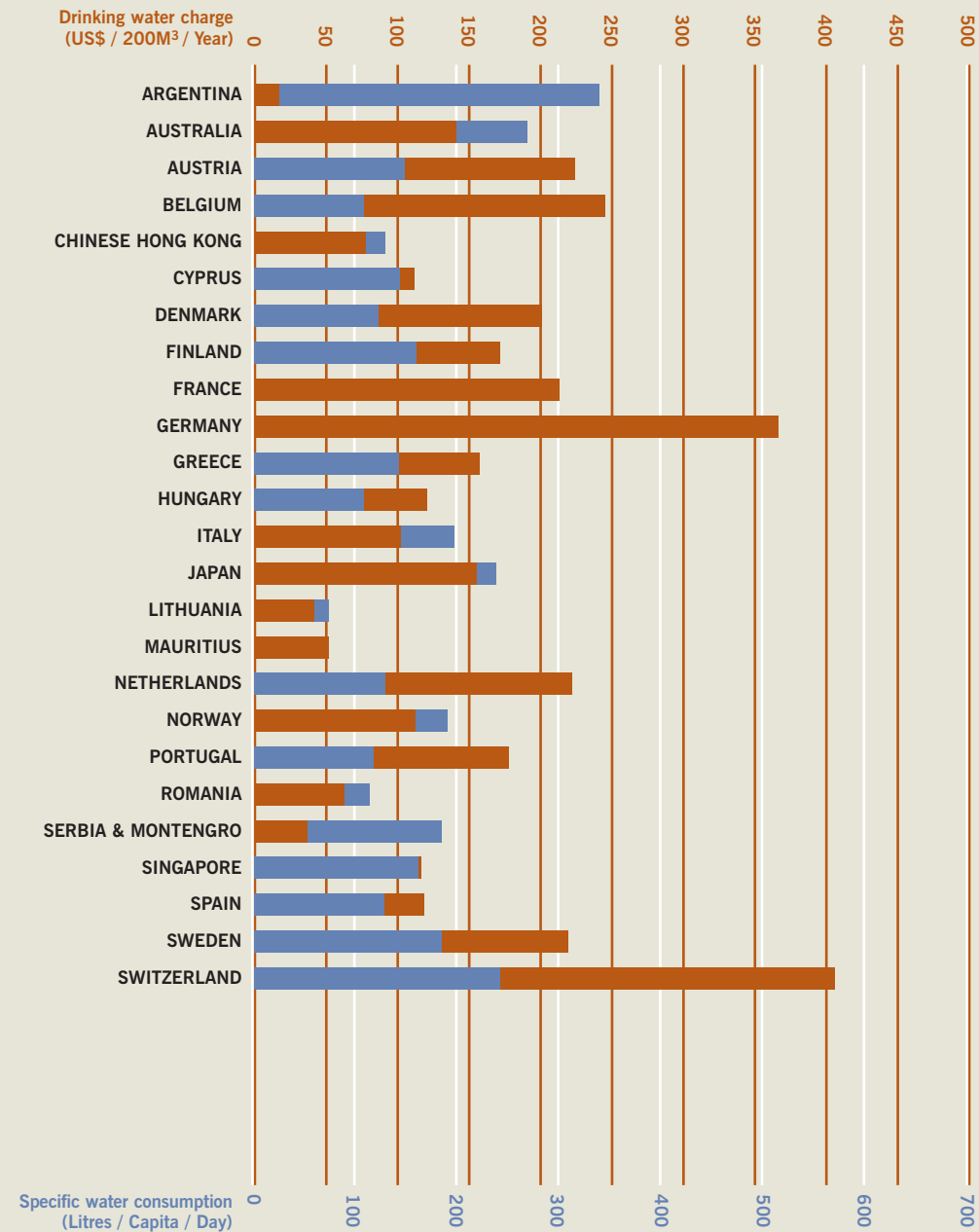
<sup>1</sup> Rand Water

<sup>2</sup> Stockholm Water Organisation 2002 Data

## WATER ABSTRACTION - WATER DELIVERED IN M<sup>3</sup> / CAPITA / YEAR



## DRINKING WATER CHARGE - SPECIFIC WATER CONSUMPTION\*



M<sup>3</sup> / Capita / Year ■ Water abstraction ■ Water delivered ■ Difference

<sup>2</sup> Stockholm Water Organisation

■ Drinkwater charge ■ Specific consumption

Average specific water consumption of considered main Cities in the Country\*



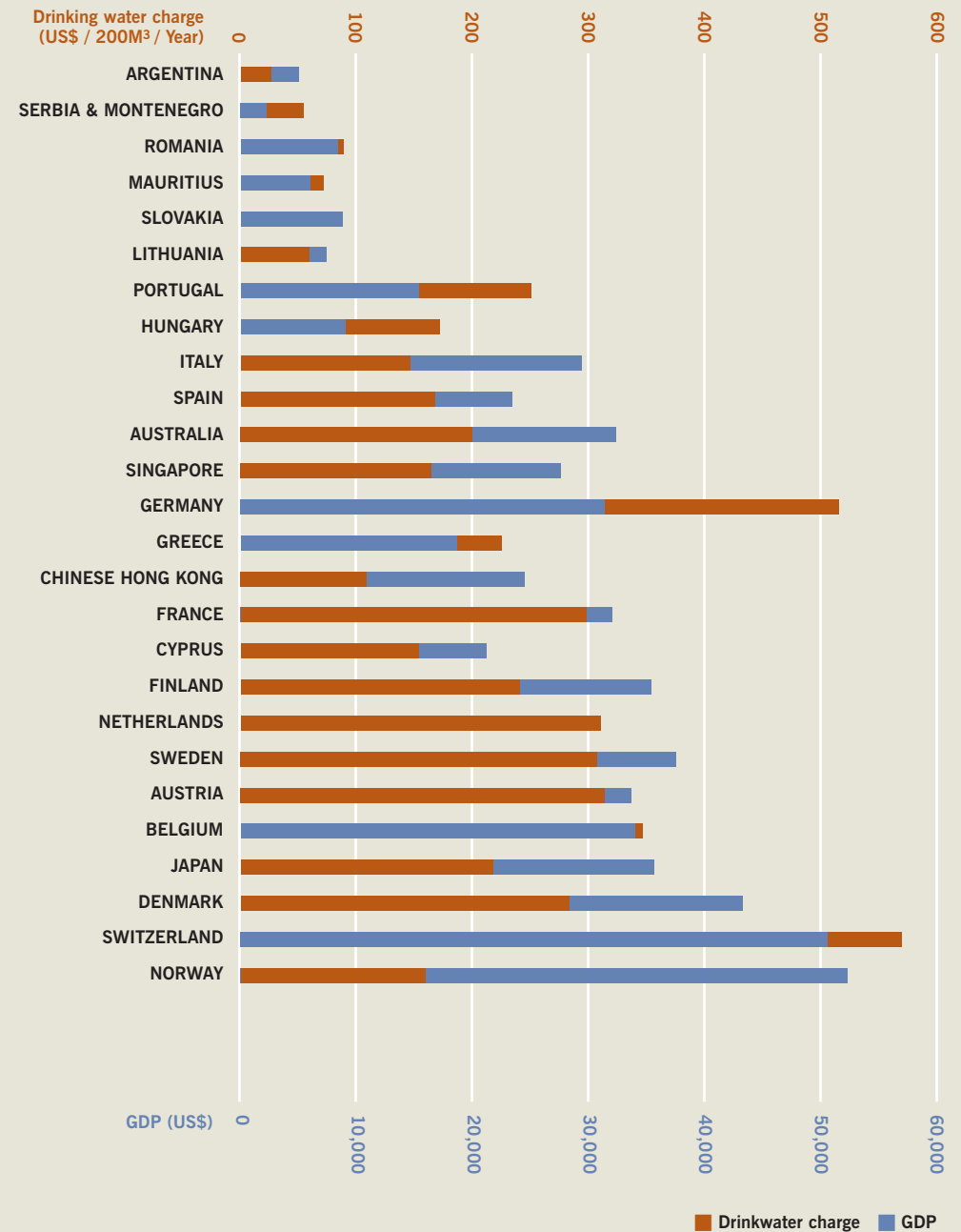
## SPECIFIC WATER CONSUMPTION IN LITRES / CAPITA / DAY

COUNTRY	CITY	HOUSEHOLD AND SMALL BUSINESS	INDUSTRY AND OTHERS	TOTAL
ARGENTINA	Buenos Aires	383	n/a	383
	Corrientes	157	n/a	157
	Mendoza	477	n/a	477
	Salta	323	n/a	323
AUSTRALIA	Brisbane	286	431	717
	Adelaide	273	143	416
	Melbourne			428
	Perth	294	128	422
	Sydney	214	127	341
AUSTRIA	Graz	n/a		193
	Innsbruck	144	71	215
	Linz	n/a		207
	Salzburg	n/a		202
	Vienna	147	42	189
BELGIUM	Louvain	92	35	126
	Antwerp	166	472	638
	Brussels	112	167	279
	Liege	103	82	185
	Ghent	82	108	190
	Charleroi	78	112	190
CHINESE HONG KONG		127	89	216
CYPRUS	Lamaca	121	28	149
	Lefkosia	166	19	185
	Lemesos	160	30	190
	Pafos	125	43	168
DENMARK	Aalborg	125	78	203
	Arhus	122	65	187
	Copenhagen	123	58	181
	Esbjerg	116	126	242
	Odense	116	69	185
FINLAND	Espoo	n/a	n/a	232
	Helsinki	170	44	214
	Tampere	169	84	253
	Turku	140	107	247
	Vantaa	150	84	234
FRANCE	Bordeaux	n/a	n/a	n/a
	Dille de France	n/a	n/a	67
	Lille	n/a	n/a	n/a
	Lyon	n/a	n/a	71
	Paris	n/a	n/a	97
GREECE	Iraklio	139	n/a	139
	Rethymno	144	n/a	144
HUNGARY	Budapest	146	91	237
	Debrecne	90	86	176
	Miskolc	96	48	144
	Pecs	90	31	121
ITALY	Bologna	226	n/a	226
	Genova	150	n/a	150
	Palermo	195	n/a	195
	Rome	229	n/a	229
	Turin	168	n/a	168

COTINUED...

COUNTRY	CITY	HOUSEHOLD AND SMALL BUSINESS	INDUSTRY AND OTHERS	TOTAL
JAPAN	Nagoya	283	47	330
	Osaka	252	252	504
	Hiroshima	229	89	318
	Fukuoka	204	76	280
	Sapporo	204	64	268
	Sendai	225	80	305
	Tokyo	n/a	n/a	345
	Yokohama	239	73	312
LITHUANIA	Kaunas	71	45	115
	Klaipeda	76	53	129
	Panevezys	68	57	125
	Siauliai	59	25	84
	Vilnius	89	38	128
MAURITIUS	Mauritius	165	55	220
NETHERLANDS	Amsterdam	149	58	207
	Rotterdam	146	89	235
	Den Haag	110	54	164
	Utrecht	103	69	172
	Eindhoven	119	72	191
NORWAY	Bergen	200	295	495
	Oslo	200	282	482
	Trondheim	164	201	365
PORTUGAL	Lisbon	144	324	468
	Loures	117	161	278
	Matosinhos	103	156	259
	Braga	99	135	234
ROMANIA	Braila	84	41	125
	Lasi	86	134	220
	Oradea	83	145	228
	Sibiu	163	111	274
	Timisoara	138	144	282
SERBIA & MONTENEGRO	Belgradé	220	80	300
	NI?	160	80	240
	Novi Sad	170	70	240
SINGAPORE		160	284	444
SLOVAKIA	Bratislava	n/a	n/a	n/a
	Ko?ice	n/a	n/a	n/a
	Nitra	n/a	n/a	n/a
	Trencin	n/a	n/a	n/a
	Zilina	n/a	n/a	n/a
SPAIN	Barcelona	119	65	184
	Madrid	124	62	186
	Seville	137	55	192
	Valencia	121	48	169
SWEDEN	Stockholm	190	265	455
	Göteborg	180	255	435
	Malmö	180	252	432
SWITZERLAND	Geneva	360	47	407
	Zurich	119	223	342
	Lausanne	n/a	n/a	294
	Basel	233	118	351
	Bern	250	105	355

## GDP - DRINKING WATER CHARGE



■ Drinkwater charge ■ GDP

## WATER REGULATION

RESPONSIBILITIES	ARGENTINA	AUSTRALIA	AUSTRIA	BELGIUM	CYPRUS	DENMARK	FINLAND	FRANCE	GERMANY	GREECE	HUNGARY	HONG KONG
<b>Who have the decisional power for:</b>												
organizing the water services	Government	State <b>1</b>	Municipalities	Ministry <b>2</b>	Various <b>3</b>	Municipal	Municipality	Local authorities	The communities	Municipal <b>4</b>	Government	Departments <b>5</b>
fixing the price of water services	Regulating Agency	State <b>10</b>	Municipal government	Ministry <b>11</b>	Various <b>12</b>	Municipal	Owner of water services	Local authorities	The communities	Municipal <b>4</b>	State/Council <b>13</b>	Legislative Council
deciding about new investments and the way to finance them	Operators	State <b>10</b>	Municipal government <b>16</b>	Ministry <b>11</b>	Various <b>17</b>	Water Company	Owner of water services	Local authorities	The communities	Municipal <b>14</b>	State/Council <b>13</b>	HKSAR Government
<b>Responsibilities transferable to private operators: Can they yes/no?</b>												
water service operation	Yes	Yes	Yes <b>19</b>	No	No	-	Yes	Yes	Yes	Yes	Yes	No
customer relation management	Yes	Yes	Yes <b>19</b>	No	No	-	Yes	Yes	Yes	No	Yes	No
electromechanical equipment renewal	Yes	Yes	Yes <b>19</b>	No	No	-	Yes	Yes	Yes	Yes	No	Yes
existing infrastructure renewal	Yes	Yes	Yes <b>19</b>	Yes	No	-	Yes	Yes	Yes	Yes	Yes	Yes
main infrastructure extension	Yes	Yes	Yes <b>19</b>	Yes	No	-	Yes	Yes	Yes	Yes	No	Yes
research and development	Yes	Yes	Yes <b>19</b>	No	No	-	Yes	Yes	Yes	Yes	No	Yes
others, please specify	-	<b>20</b>	Yes <b>19</b>	-	No	-	-	-	-	-	-	-
<b>Responsibilities transferable to private operators: Do they exist yes/no?</b>												
water service operation	Yes	Yes	Few	Yes	No	Yes	Yes	Yes	Yes	Yes, in few cases	Yes	No
customer relation management	Yes	Yes	Few	Yes	No	Yes	Yes	Yes	Yes	-	Yes	No
electromechanical equipment renewal	Yes	Yes	Few	Yes	No	Yes	Yes	Yes	Yes	Yes, in few cases	No	Yes
existing infrastructure renewal	Yes	Yes	Few	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes
main infrastructure extension	Yes	Yes	Few	Yes	No	Yes	Yes	Yes	Yes	Yes	No	Yes
research and development	Yes	Yes	Few	Yes	No	Yes	No	Yes	Yes	Yes, in few cases	No	Yes
others, please specify	-	-	Few	No	No	-	-	-	-	-	-	-
<b>Principles used for fixing the price of drinking water: yes/no?</b>												
cost covering principles	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes	Yes	Yes
inflation rate growth	No		Yes	No	No	-	No	Yes, partly	Yes	Yes	Yes	Yes
annual price limits	No		No	No	No	-	No	No	No	-	No	Yes
general principle of price cap	Yes	Yes	No	No	No	-	No	No	no	?	-	No
others, please specify	-	<b>21</b>	Yes	No	-	-	-	-	No	<b>22</b>	-	-
<b>ACCESS TO WATER AND SANITATION FOR LOW INCOME HOUSEHOLDS</b>												
<b>Satisfaction of people's basic needs when they do not have access to public water services: yes/no ?</b>												
public taps	Yes	Yes	No	No	N/A	No	Yes	Yes, rarely	Yes	-	Yes	N/A
private wells	Yes	n/a	Yes <b>23</b>	-	N/A	Yes	Yes	Yes, rarely	No	-	Yes	N/A
private boreholes	Yes	n/a		-	N/A	Yes	Yes	Yes, rarely	No	-	No	N/A
short sewers and private septic tanks	Yes	n/a	Yes <b>23</b>	No	N/A	Yes	Yes	Yes	No	Yes	Yes	N/A
other, please specify	-	Yes <b>23</b>	Yes <b>23</b>	-	-	-	-	-	No	<b>24</b>	-	-
<b>Solidarity mechanism set up to facilitate access to water and sanitation:</b>												
please specify	<b>26</b>	<b>27</b>	<b>28</b>	-	-	No	<b>29</b>	<b>30</b>	-	<b>31</b>	-	N/A
<b>How are they funded? yes/no ?</b>												
by private banks	No	No	Yes	No	N/A	-	Yes	No	No	No	-	N/A
by public funding	Yes	Yes	Yes	No	N/A	-	Yes, in some cases	Yes, 60%	Yes	No	-	N/A
other, please specify	Unemployment <b>33</b>	<b>34</b>	Net connection fees	No	-	-	-	Private operators, 40%	No	-	-	-

### Water Regulation Appendices:

- The Australian Constitution confers jurisdiction over water matters to the State governments (and by extension, to Territory governments).
- Flemish Ministry of Environment.
- Water Development Departments, Municipalities, Water Boards.
- Municipalities and Municipal services.
- Water supplies Department and Drainage Services Department.
- Assembly of municipal & the Minister of Health, Labour and Welfare, Japan (Authorization).
- Public utilities and local authority.
- Municipalities/Autonomous Communities.
- Local authorities of the town.
- Each State and Territory has their own arrangements. Almost all jurisdictions have an economic regulator (ranging from deterministic regulation in Victoria to recommendatory regulation in most other jurisdictions. In some jurisdictions there is no or limit.

- Federal Ministry of Economy.
- Parliament, Water Development Department, Municipalities, Water Board.
- For 5 states owned firms, for the other 370 firms Local council the ww decides, way:incomes, state, council, EU.
- Municipalities and Municipal services.
- Local authorities and national regulatory authority.
- Municipal government (in most cases).
- Parliament, Water Development Department, Municipalities, Water Board.
- Municipalities/Regions/State.
- Yes, but in reality done by public or formally privatised supplying units.
- The main asset base (i.e. pipes, dams and most treatment plants) are owned by the government owner.

ITALY	JAPAN	LITHUANIA	MAURITIUS	NETHERLANDS	NORWAY	PORTUGAL	ROMANIA	SERBIA&MONTENEGRO	SINGAPORE	SLOVAKIA	SPAIN	SWEDEN	SWITZERLAND
Optimal Territorial Areas	Athorization <b>6</b>	Municipalities	Yes	Water companies	Municipalities	Municipalities	Local authorities	Public/Local <b>7</b>	Government	Water companies	Municipal/Community <b>8</b>	Local authorities <b>9</b>	Community
Optimal Territorial Areas	Assembly of municipal	Municipalities	No	Shareholders	Municipalities	Municipalities	Authorities <b>15</b>	State or local authorities	Government	Regulation ministry	Municipal/Community <b>8</b>	Local authorities <b>9</b>	Community
Optimal Territorial Areas	Assembly of municipal	Municipal <b>18</b>	Yes	Water companies	Municipalities	Municipalities	Operators/Local authority	Local authorities	Government	Owners/water companies	Municipal <b>18</b>	Local authorities <b>9</b>	Community
Yes	No	No	Yes	Yes	Yes	Yes	Yes	-	No	Yes	Yes	No	Yes
Yes	Only easy operation	No	Yes	Yes	Yes	Yes	Yes	-	No	Yes	Yes	No	Yes
Yes	Only easy operation	Yes	Yes	Yes	Yes	Yes	Yes	-	No	Yes	Yes	No	Yes
Yes	Only easy operation	Yes	Yes	Yes	Yes	Yes	Yes	-	No	Yes	Yes	No	Yes
Yes	Only easy operation	No	Yes	Yes	Yes	Yes	Yes	-	No	Yes	Yes	No	Yes
Yes	Only easy operation	Yes	Yes	Yes	Yes	Yes	Yes	-	No	Yes	Yes	No	Yes
-	-	-	-	-	-	-	-	-	-	No	-	-	-
Yes	No	No	-	No	Yes	Yes	Yes	-	Yes	Yes	Yes	No	Yes
Yes	Only easy operation	No	-	Callcenter	No	Yes	Yes	-	Yes	Yes	Yes	No	Yes
Yes	Only easy operation	Yes	-	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	No	Yes
Yes	Only easy operation	Yes	-	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	No	Yes
Yes	Only easy operation	No	-	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	No	Yes
Yes	Only easy operation	Yes	-	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	No	Yes
-	-	-	-	-	-	-	-	-	-	-	-	-	-
Yes	Yes (main principles)	Yes	-	Yes	Yes	Yes	Yes	-	Yes	Yes	Yes	Yes	Yes
Yes	Yes (auxiliary principles)	Yes	-	No	-	Yes	Yes	-	Yes	Yes	Yes	No	Yes
Yes	No	No	-	No	-	No	Yes	Yes	No	Yes	-	No	No
Yes	No	No	-	No	-	No	-	-	No	Yes	-	No	No
-	-	-	-	-	-	Political reasons	-	-	-	-	-	-	-
Yes	Yes	Yes	Yes	-	No	-	Yes	No	No	-	-	No	-
Yes	Yes	Yes	Yes	-	No	-	Yes	Yes	No	No	-	Yes	-
Yes	Yes	Yes	Yes	-	No	-	Yes	Yes	No	No	-	Yes	-
Yes	Yes	Yes	-	-	No	-	Yes	Yes	No	No	-	Yes	-
-	-	-	-	<b>25</b>	No	-	-	-	<b>25</b>	No	-	-	-
<b>32</b>	-	-	-	-	No	-	No	-	No	-	-	Urban planning	-
-	-	-	-	Yes, liability loan capital	-	-	No	-	Yes	No	-	No	Yes
-	-	Yes	Yes	No <b>35</b>	-	-	No	-	No	No	-	No	Yes
-	-	-	-	-	-	-	-	-	-	No	-	<b>36</b>	-

- 21.** The regulator often gives a multi year price path (hence inflation is involved) based on a building block approach to cost recovery but not all past assets are included in the regulatory asset base.
- 22.** Varies most times it is subjected to political restrictions, close to elections there are no increases.
- 23.** Yes,(not for reason low income but for single houses not rentable for connection).
- 24.** There is more than 99% coverage for drinking water.
- 25.** 100% acces to piped drinking water supply.
- 26.** Subsidy to access and consumption.
- 27.** In some jurisdictions there is uniform pricing for water regardless of cost (eg Western Australia). In other jurisdictions there are comprehensive programs to assist disadvantaged people to pay their bills and most jurisdictions have rebates for people on social benefits.
- 28.** Mostly unique water tariff for whole spply net not depending on the local position of cutomer; public fundings.

- 29.** Social welfare authority gives money for those who cannot pay the water bill.
- 30.** Specific fund set up to pay the bill of low income persons who can't afford the basic service of water.
- 31.** Families with many childresn have in many municipalities reduced rates.
- 32.** Lower tariffs for domestic consumption not exceding a fixed volume.
- 33.** Unemployment public subsidy.
- 34.** One State pays the water service provider the difference between the non metropolitan and metropolitan costs of service provision to facilitate uniform pricing throughout the State in most other jurisdictions the government owner either pays a rebate for people on social benefits or accepts a lower dividend due to the imposed community service obligations.
- 35.** No, hardly: shares are owned by public share holders (municipalities and provinces).
- 36.** The area has to pay their costs.

**THE FOLLOWING PEOPLE MADE STATISTICAL DATA AVAILABLE FOR THIS PUBLICATION:**

**Les gens suivants ont delivres lea donees statistique pour cette publication:**

<b>Argentina</b>	A. Molinari, <i>Aferas-etoss (Regulador)</i>
<b>Australia</b>	P. Gee, <i>Water services Association of Australia</i>
<b>Austria</b>	M. Eisenhut, <i>Austrian Natinal Committee of IWA</i>
<b>Belgium</b>	J. Hammenecker, <i>VMW and C. Legros Belgaqua</i>
<b>Chinese Hong Kong</b>	Ir. T.O. Lee, <i>Water Supplies Department Hong Kong</i>
<b>Cyprus</b>	S. Metaxas, <i>Limassol Water Board</i>
<b>Denmark</b>	J. Bastrup, <i>Danish Water and Waste Association</i>
<b>Finland</b>	M. Rontu, <i>Finnish Water and Waste Water Works Association</i>
<b>France</b>	N. Renard, <i>Veolia Water</i>
<b>Germany</b>	M. Broz, <i>Gelsenwasser AG</i>
<b>Greece</b>	K. Tsagarakis, <i>University of Crete</i>
<b>Hungary</b>	C.Várszegi, <i>Hungarian Water Association</i>
<b>Italy</b>	R. Drusiani, <i>Federutility</i>
<b>Japan</b>	M. Sekine, <i>Japan Water Works Association and others</i>
<b>Lithuania</b>	A. Abromavicius, <i>Lithuanian Water Suppliers Association</i>
<b>Mauritius</b>	N. Dookhony, <i>Central Water Authority</i>
<b>Netherlands</b>	P. Geudens, <i>VEWIN and E. Oosterom, Rioned</i>
<b>Norway</b>	I. Helleberg, <i>Norwegian Water and Wastewater Association</i>
<b>Portugal</b>	L. Lopes, <i>Associação Portuguesa Distribuição Drenagem Águas</i>
<b>Romania</b>	S. Lacatusu, <i>Romanian Water Association</i>
<b>Serbia and Montenegro</b>	M. Cvjetkovic, <i>Belgrade Waterworks Association</i>
<b>Singapore</b>	R. Yuen, <i>PUB</i>
<b>Slovakia</b>	I. Mahrikova, <i>SNK IWA</i>
<b>Spain</b>	J. de Castro, <i>AEAS</i>
<b>Sweden</b>	A. Lingsten, <i>Swedisch Water</i>
<b>Switzerland</b>	E. Aragonès, <i>Serices Industriels de Geneve and M. Birner, SVGW</i>

**TASK FORCE STATISTICS, STATISTICS AND ECONOMICS COMMITTEE:**

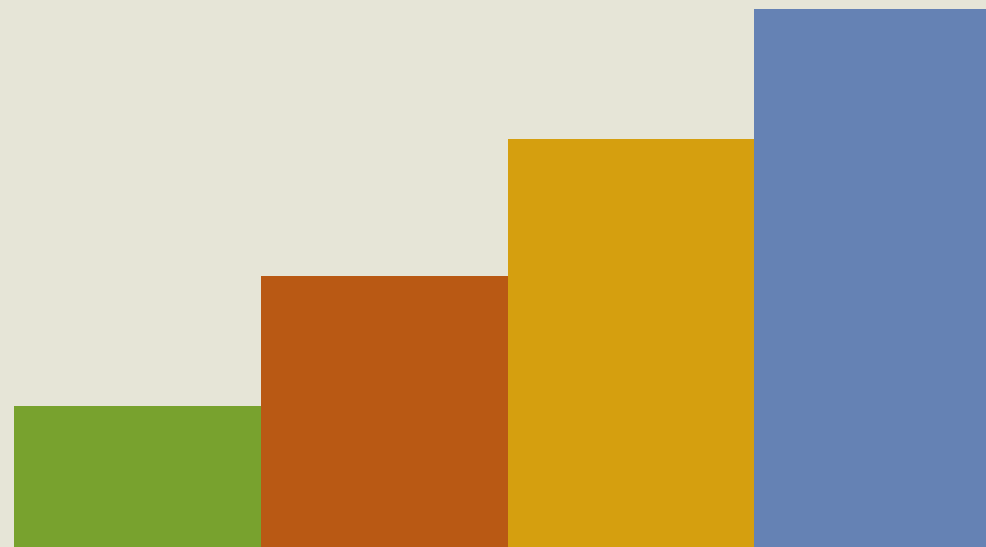
**CHAIRMAN: Dr. Renato Parena, Torino, Italy**

**E-mail: renato.parena@smatorino.it**

**TASK FORCE LEADER STATISTICS: Drs. Ingrid Troquet MBA, Maastricht, The Netherlands**

**SECRETARY: Drs. Ed Smeets, Tilburg, The Netherlands**

**With compliments to Elly Weerts, Management Assistant WML, The Netherlands**



Published by the International Water Association © 2006 International Water Association.

Apart from any fair dealing for the purposes of research or private study, or criticism or review, as permitted under the UK Copyright, Designs and Patents Act (1998), no part of this publication may be reproduced, stored or transmitted in any form or by any means, without the prior permission in writing of the publisher, or, in the case of photographic reproduction, in accordance with the terms of licences issued by the Copyright Licensing Agency in the UK, or in accordance with the terms of licenses issued by the appropriate reproduction rights organization outside the UK. Enquiries concerning reproduction outside the terms stated here should be sent to International Water Association at the address printed above.

The publisher makes no representation, express or implied, with regard to the accuracy of the information contained in this book and cannot accept any legal responsibility or liability for errors or omissions that may be made.



**International  
Water Association**

Alliance House · 12 Caxton Street · London SW1H 0QS · United Kingdom

Tel: +44 20 7654 5500 · Fax: +44 20 7654 5555

Email: water@iwahq.org.uk · Web: www.iwahq.org

Company registered in England No.3597005 · Registered Charity (England) No.1076690