



International
Water Association

Specialist Group
Statistics and
Economics

International Statistics for Water Services
Information every water manager should know

2012

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This leaflet on International Statistics for Water Services is composed by the IWA Specialist Group on Statistics and Economics.

The International Water Association (IWA) is a worldwide network of professionals, which aims to exchange scientific and professional knowledge, provided by academics and water managers, covering all aspects of the water cycle. To achieve this goal, IWA organizes conferences supported by specialist groups and technical and scientific teams all over the world.

The Statistics and Economics Specialist Group provides a forum to discuss the financing of water utilities, the water tariff structures, performance indicators, efficiency and economics of water organizations and themes like total cost recovery. A part of this service consists of water surveys and providing statistics on water industry, such as tables and figures on abstraction, consumption, tariffs and data on sewerage and wastewater treatment.

The report "International Statistics for Water Services" is part of a series of documents presented at the IWA World Water Congresses and is also available on www.iwahq.org/Home. This report, more specifically the charges and consumption part, focuses on water consumption of households and small businesses.

The prices indicated do not necessarily reflect the full costs of water services, because some costs may be covered by sources other than the customer. In some cases there can be a political motivation to ensure that water is supplied at a socially acceptable price. There are many other factors affecting relative price levels, but these are not focused on in this survey.

Similar to the previous edition we have collected data from water bills, based on an annual consumption of 100 m³ and 200 m³ per year, to facilitate comparison on city level. All financial data are converted to US\$, exchange rate December 31st, 2011. All quantitative information on population and so on is based on the situation in 2010.

This leaflet is merely meant as a teaser, with clear and eye-catching ratio's and graphs. Far more detailed information can be found at <http://www.iwahq.org/8h/networks/specialist-groups/list-of-groups/statistics-and-economics.html>. When comparing this information to previously published brochures, certain tendencies can be observed. But do keep in mind that the exchange rate of the US\$ is time-related. Further useful statistics and information can also be found at www.iwahq.org

Thanks to all water professionals who helped to obtain the data for this survey. They are listed on the last page.

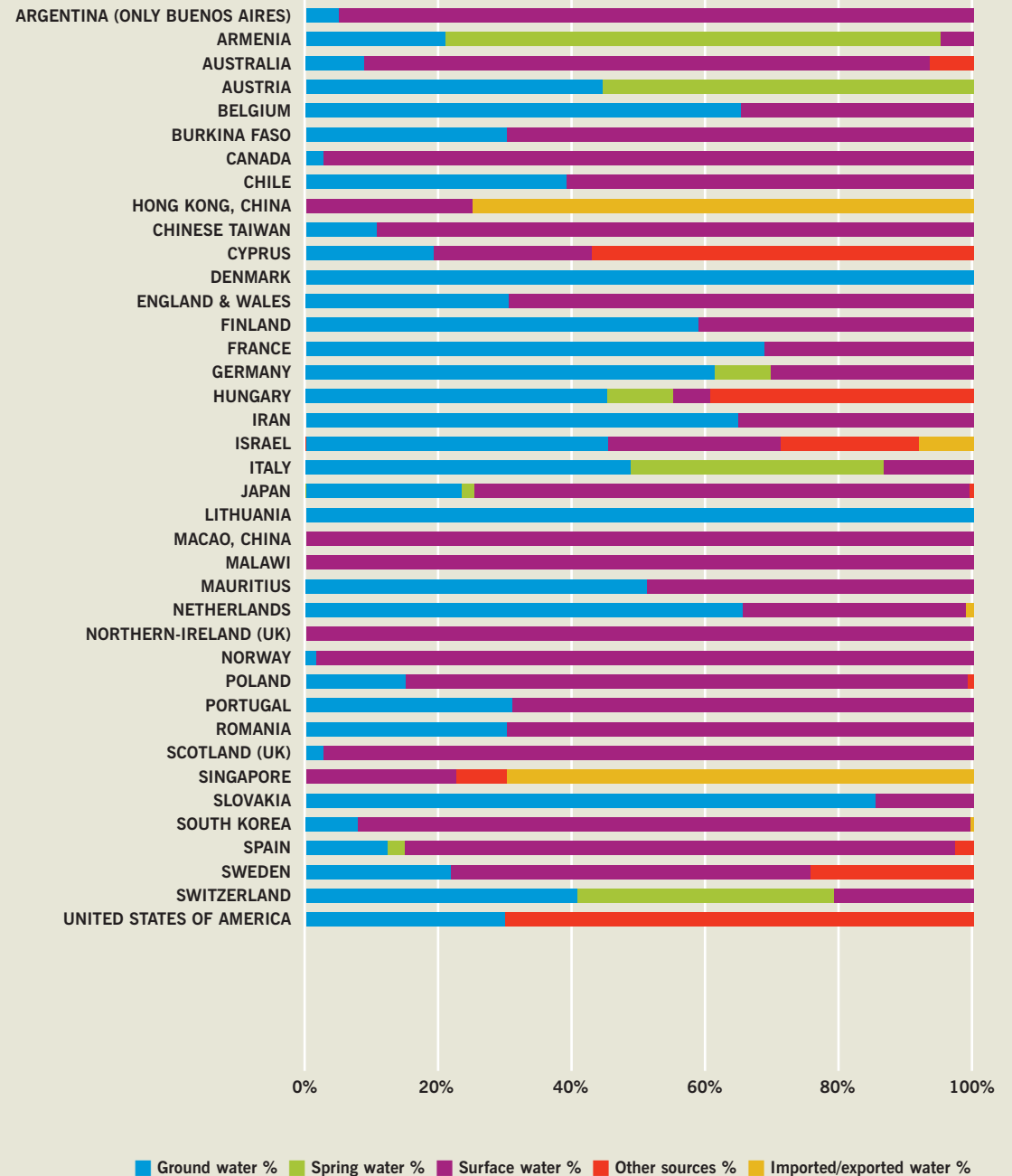
IWA Specialist Group Statistics and Economics

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Abstraction for water supply according to source in 2008-2010 in mio m³/year

| COUNTRY/REGION | TRUE GROUND WATER | | SPRING WATER | | SURFACE WATER | | OTHER SOURCES | | TOTAL WATER ABSTRACTION | |
|-------------------------------|-------------------|--------|--------------|-------|---------------|--------|---------------|--------|-------------------------|--------|
| | 2008 | 2010 | 2008 | 2010 | 2008 | 2010 | 2008 | 2010 | 2008 | 2010 |
| ARGENTINA (only Buenos Aires) | n/a | 86 | n/a | 0 | n/a | 1,685 | n/a | 0 | n/a | 1,771 |
| ARMENIA | n/a | 119 | n/a | 421 | n/a | 28 | n/a | 0 | n/a | 568 |
| AUSTRALIA | n/a | 218 | n/a | 0 | n/a | 2,067 | n/a | 160 | n/a | 2,445 |
| AUSTRIA | 314 | 355 | 469 | 446 | 0 | 0 | 0 | 0 | 783 | 801 |
| BELGIUM | 461 | 473 | 0 | 0 | 249 | 253 | 0 | 0 | 710 | 726 |
| BRAZIL | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 14,518 |
| BULGARIA | 598 | n/a | 0 | n/a | 398 | n/a | 0 | n/a | 996 | 800 |
| BURKINA FASO 1 | n/a | 18 | n/a | 0 | n/a | 42 | n/a | 0 | n/a | 60 |
| CANADA | n/a | 46 | n/a | 0 | n/a | 1,790 | n/a | 0 | n/a | 1,836 |
| CHILE | n/a | 620 | n/a | 0 | n/a | 960 | n/a | 0 | n/a | 1,580 |
| HONG KONG, CHINA | 0 | 0 | 0 | 0 | 303 | 228 | 653 | 0 | 956 | 228 |
| CHINESE TAIWAN | 437 | 465 | 6 | 6 | 3,529 | 3,955 | 0 | 0 | 3,972 | 4,425 |
| CYPRUS | 19 | 18 | 0 | 0 | 15 | 21 | 37 | 53 | 72 | 92 |
| DENMARK | 378 | 398 | 0 | 0 | 0 | 0 | 0 | 0 | 378 | 398 |
| ENGLAND & WALES | n/a | 1,787 | n/a | 0 | n/a | 4,072 | n/a | 0 | n/a | 5,858 |
| FINLAND | 256 | 261 | 0 | 0 | 180 | 184 | 0 | 0 | 437 | 445 |
| FRANCE | 3,847 | 6,000 | 0 | 0 | 2,358 | 2,750 | 0 | 0 | 6,205 | 8,750 |
| GABON 1 | n/a | n/a | n/a | 0 | n/a | n/a | n/a | 0 | n/a | 81 |
| GERMANY | 3,125 | 3,079 | 410 | 422 | 1,520 | 1,537 | 0 | 0 | 5,055 | 5,038 |
| HUNGARY | 315 | 269 | 62 | 60 | 38 | 33 | 260 | 236 | 674 | 597 |
| IRAN | n/a | 4,460 | n/a | 0 | n/a | 2,430 | n/a | 0 | n/a | 6,890 |
| ISRAEL | 1,064 | 834 | 0 | 0 | 625 | 479 | 387 | 388 | 2,076 | 1,701 |
| ITALY | 4,233 | 4,427 | 3,249 | 3,452 | 1,158 | 1,211 | 69 | 27 | 8,709 | 9,117 |
| JAPAN | 3,856 | 3,707 | 305 | 292 | 11,831 | 11,790 | 31 | 34 | 16,023 | 15,823 |
| LITHUANIA | 133 | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 133 | 130 |
| MACAO, CHINA | n/a | 0 | n/a | 0 | n/a | 79 | n/a | 0 | n/a | 79 |
| MALAWI | n/a | 0 | n/a | 0 | n/a | 30 | n/a | 0 | n/a | 30 |
| MAURITIUS | n/a | 114 | n/a | 0 | n/a | 109 | n/a | 0 | n/a | 223 |
| NETHERLANDS | 686 | 761 | 0 | 0 | 429 | 395 | 76 | 0 | 1,191 | 1,156 |
| NORTHERN-IRELAND (UK) | n/a | 1 | n/a | 0 | n/a | 228 | n/a | 0 | n/a | 229 |
| NORWAY | 82 | 12 | 0 | 0 | 753 | 710 | 0 | 0 | 835 | 722 |
| POLAND | 1,649 | 1,625 | 0 | 0 | 9,023 | 9,173 | 80 | 68 | 10,752 | 10,866 |
| PORTUGAL | 405 | 378 | 0 | 0 | 567 | 845 | 0 | 0 | 972 | 1,223 |
| ROMANIA | n/a | 354 | n/a | 0 | n/a | 825 | n/a | 0 | n/a | 1,179 |
| SCOTLAND (UK) | n/a | 19 | n/a | 0 | n/a | 717 | n/a | 0 | n/a | 736 |
| SINGAPORE | n/a | 0 | n/a | 0 | n/a | 151 | n/a | 49 | n/a | 201 |
| SLOVAKIA | 190 | 267 | 81 | 0 | 0 | 46 | 0 | 0 | 271 | 313 |
| SOUTH KOREA | 90 | 556 | 0 | 0 | 9,822 | 6,606 | 0 | 0 | 9,912 | 7,162 |
| SPAIN | 826 | 615 | 0 | 135 | 4,209 | 4,156 | 270 | 152 | 5,305 | 5,058 |
| SWEDEN | 183 | 197 | 0 | 0 | 454 | 490 | 238 | 222 | 875 | 909 |
| SWITZERLAND | 405 | 382 | 394 | 369 | 181 | 189 | 0 | 0 | 980 | 940 |
| UGANDA 1 | n/a | n/a | n/a | 0 | n/a | n/a | n/a | 0 | n/a | 72 |
| UNITED STATES OF AMERICA | 22,107 | 15,546 | 0 | 0 | 37,720 | 26,293 | 0 | 10,329 | 59,827 | 52,169 |

Abstraction source for drinking water supply in 2010 in mio m³/year and %



1 Only for urban areas

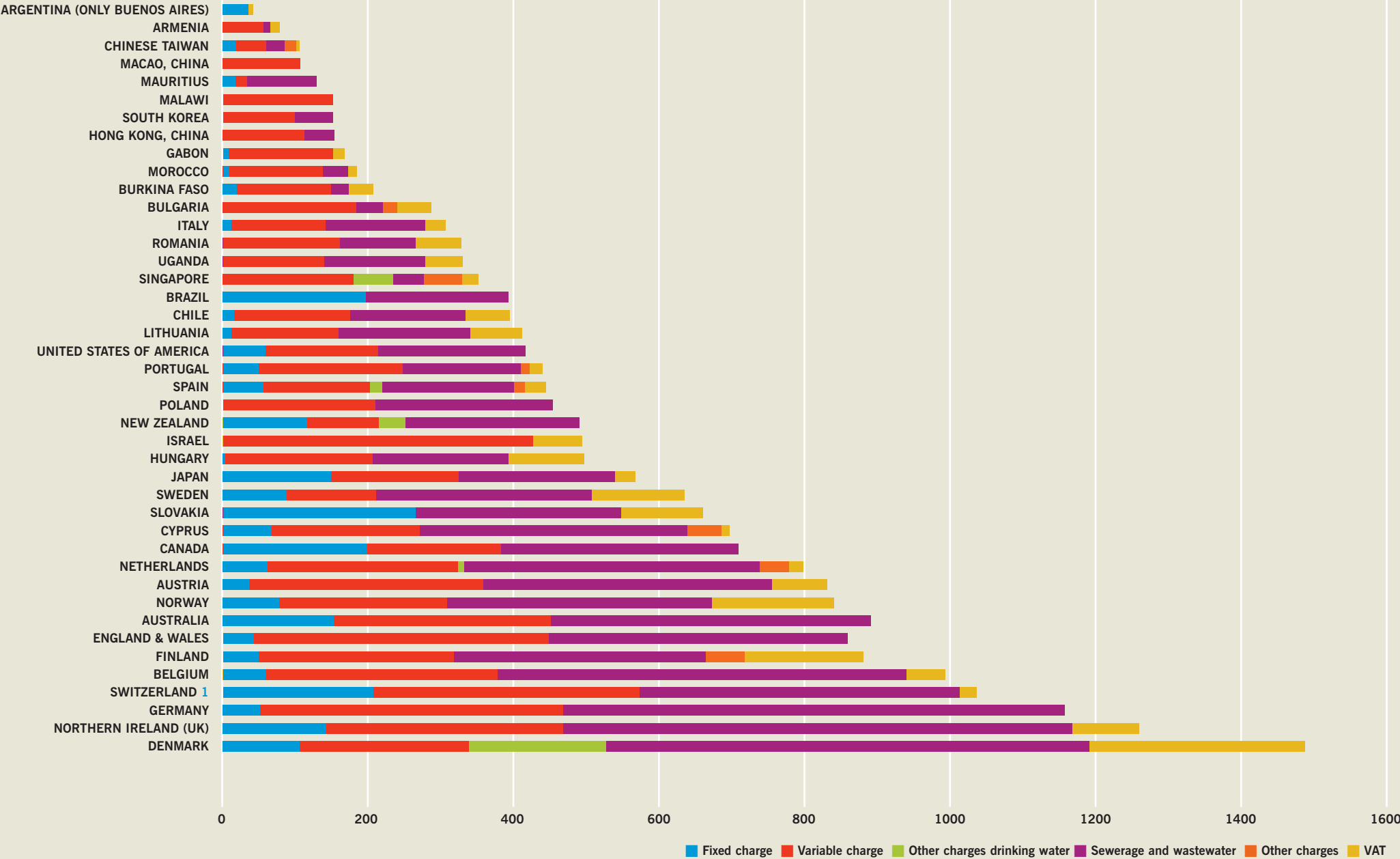
Water delivered - population - supply rate for drinking water, sewerage and waste water consumption in 2008-2010

| COUNTRY/REGION | IN MIO m ³ | | | | | | | | | IN MIO INHABITANTS | | | IN % | | | | | | | | |
|------------------------------|--|--------|--------|---|-------|-------|----------------|--------|--------|--------------------|----------|--------|-------------|--------|--------|--------------------------|--------|--------|-----------------------------|--------|--------|
| | HOUSEHOLD AND SMALL BUSINESS CONSUMPTION (<10,000 m ³) | | | INDUSTRY AND OTHER BILLED WATER CONSUMPTION (>10,000 m ³) | | | TOTAL DELIVERY | | | POPULATION | | | SUPPLY RATE | | | SEWERAGE CONNECTION RATE | | | WASTE WATER CONNECTION RATE | | |
| | 2006 | 2008 | 2010 | 2006 | 2008 | 2010 | 2006 | 2008 | 2010 | 2006 | 2008 | 2010 | 2006 | 2008 | 2010 | 2006 | 2008 | 2010 | 2006 | 2008 | 2010 |
| ARGENTINA(only Buenos Aires) | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 1,058 | n/a | n/a | 9.74 | n/a | n/a | 79.49 | n/a | n/a | 59.01 | n/a | n/a | 7.69 |
| ARMENIA | n/a | n/a | 119 | n/a | n/a | 40 | n/a | n/a | 159 | n/a | n/a | 3.21 | n/a | n/a | 77.34 | n/a | n/a | 69.21 | n/a | n/a | 69.21 |
| AUSTRALIA | n/a | n/a | 1,298 | n/a | n/a | 563 | n/a | n/a | 1,861 | 20.33 | n/a | 22.34 | n/a | n/a | 99.70 | n/a | n/a | 94.04 | n/a | n/a | n/a |
| AUSTRIA | 485 | 438 | 381 | 100 | 104 | 102 | 585 | 542 | 483 | 8.27 | 8.33 | 8.39 | 89.10 | 89.20 | 89.87 | 90.00 | 92.00 | 93.00 | 90.00 | 92.00 | 93.00 |
| BELGIUM | 406 | 405 | 439 | 183 | 169 | 144 | 589 | 574 | 583 | 10.58 | 10.67 | 10.77 | 99.70 | 99.40 | 99.68 | 76.00 | 85.00 | 91.35 | 76.00 | 85.00 | 86.41 |
| BRAZIL | 7,000 | n/a | n/a | 1,000 | n/a | n/a | 8,000 | n/a | 8,418 | 189.00 | n/a | 193.30 | 94.20 | n/a | 81.69 | 39.00 | n/a | 44.50 | n/a | n/a | 44.50 |
| BULGARIA | n/a | 308 | n/a | n/a | 103 | n/a | n/a | 411 | 354 | n/a | 7.93 | 7.36 | n/a | 99.00 | 99.09 | n/a | 64.00 | 70.60 | n/a | 64.35 | 47.70 |
| BURKINA FASO 1 | n/a | n/a | 41 | n/a | n/a | 8 | n/a | n/a | 49 | n/a | n/a | 3.36 | n/a | n/a | 75.00 | n/a | n/a | 21.00 | n/a | n/a | n/a |
| CANADA | n/a | n/a | 1,788 | n/a | n/a | 0 | n/a | n/a | 1,788 | n/a | n/a | 33.89 | n/a | n/a | 31.34 | n/a | n/a | 36.19 | n/a | n/a | 37.66 |
| CHILE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 1,007 | n/a | n/a | 15.15 | n/a | n/a | 99.81 | n/a | n/a | 95.88 | n/a | n/a | 86.92 |
| CHINA | n/a | 12,235 | 12,625 | n/a | 6,112 | 5,857 | n/a | 18,347 | 18,482 | n/a | 1,328.00 | 31.73 | n/a | 21.20 | 91.80 | n/a | n/a | n/a | n/a | n/a | n/a |
| HONG KONG, CHINA | 756 | 760 | 551 | 207 | 196 | 385 | 963 | 956 | 936 | 6.86 | 6.99 | 7.10 | 99.99 | 100.00 | 99.92 | 93.00 | 93.00 | 93.00 | 93.00 | 93.00 | 93.00 |
| CHINESE TAIWAN | 1,840 | 1,870 | 1,976 | 289 | 916 | 713 | 2,129 | 2,786 | 2,688 | 22.88 | 23.11 | 23.16 | 91.86 | 91.53 | 91.89 | 15.60 | 22.50 | 53.02 | 15.60 | 22.50 | 53.02 |
| CYPRUS | n/a | n/a | 67 | n/a | n/a | 2 | n/a | n/a | 69 | 0.78 | n/a | 0.82 | 100.00 | n/a | 100.00 | 59.00 | n/a | 58.54 | 59.00 | n/a | 58.54 |
| DENMARK | 323 | 313 | 316 | 41 | 48 | 52 | 364 | 361 | 368 | 5.43 | 5.48 | 5.56 | 96.00 | 96.00 | 97.20 | 90.00 | 90.00 | 90.00 | 90.00 | 90.00 | 90.00 |
| ENGLAND & WALES | n/a | n/a | 3,148 | n/a | n/a | 1,190 | n/a | n/a | 4,338 | n/a | n/a | 55.24 | n/a | n/a | 99.60 | n/a | n/a | 97.25 | n/a | n/a | 96.82 |
| FINLAND | 298 | 298 | 303 | 53 | 53 | 53 | 350 | 350 | 356 | 5.30 | 5.33 | 5.38 | 90.53 | 90.11 | 91.16 | 81.37 | 81.25 | 82.01 | 81.37 | 81.25 | 82.01 |
| FRANCE | n/a | n/a | n/a | n/a | n/a | n/a | 4,450 | 4,100 | 3,800 | 61.00 | 65.00 | 65.00 | 100.00 | 100.00 | 100.00 | 95.00 | 95.00 | 95.00 | 95.00 | 95.00 | 95.00 |
| GABON 1 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 63 | n/a | n/a | 1.26 | n/a | n/a | 95.00 | n/a | n/a | 0.00 | n/a | n/a | 0.00 |
| GERMANY | 3,703 | 3,590 | 3,580 | 957 | 900 | 875 | 4,660 | 4,490 | 4,455 | 82.32 | 82.00 | 81.75 | 99.20 | 99.20 | 99.26 | 96.00 | 96.00 | 96.63 | 94.00 | 95.00 | 94.92 |
| HUNGARY | 370 | 438 | 341 | 143 | 126 | 113 | 513 | 564 | 455 | 10.07 | 10.30 | 10.01 | 94.30 | 90.72 | 94.80 | 65.70 | 67.00 | 72.50 | 65.70 | 67.49 | 72.50 |
| IRAN | n/a | n/a | 4,895 | n/a | n/a | 0 | n/a | n/a | 4,895 | n/a | n/a | 77.54 | n/a | n/a | 91.52 | n/a | n/a | 25.37 | n/a | n/a | 18.05 |
| ISRAEL | 733 | 759 | 685 | 593 | 1,242 | 110 | 1,326 | 2,001 | 795 | 7.05 | 7.30 | 7.49 | 100.00 | 100.00 | 100.00 | 90.00 | 96.00 | 93.51 | 90.00 | 95.78 | 93.51 |
| ITALY | 4,858 | 5,451 | 4,703 | 758 | n/a | 830 | 5,616 | 5,451 | 5,533 | 58.74 | 60.05 | 60.63 | 97.00 | 96.00 | 96.00 | 84.00 | 85.00 | 84.70 | 84.00 | 84.70 | 70.40 |
| JAPAN | 12,141 | 12,073 | 11,805 | 1,821 | 1,788 | 1,699 | 13,962 | 13,861 | 13,504 | 127.71 | 127.90 | 127.94 | 97.20 | 97.40 | 97.54 | 70.50 | 71.20 | 73.16 | 70.50 | 71.22 | n/a |
| LITHUANIA | 69 | 52 | 50 | 28 | 46 | 42 | 98 | 97 | 92 | 3.39 | 3.35 | 3.24 | 70.00 | 73.00 | 73.50 | 60.00 | 62.00 | 62.00 | 60.00 | 62.00 | 63.00 |
| MACAO, CHINA | n/a | n/a | 31 | n/a | n/a | 39 | n/a | n/a | 71 | n/a | n/a | 0.56 | n/a | n/a | 100.00 | n/a | n/a | 100.00 | n/a | n/a | 0.00 |
| MALAWI | 10 | n/a | 11 | 4 | n/a | 5 | 14 | n/a | 15 | 12.34 | n/a | 0.70 | 70.00 | n/a | 89.99 | n/a | n/a | n/a | n/a | n/a | n/a |
| MAURITIUS | 85 | n/a | 77 | 21 | n/a | 24 | 106 | n/a | 100 | 1.18 | n/a | 1.23 | 99.80 | n/a | 100.00 | n/a | n/a | 25.37 | n/a | n/a | 24.39 |
| MOROCCO | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 640 | n/a | n/a | 18.06 | n/a | n/a | 96.20 | n/a | n/a | 88.40 | n/a | n/a | n/a |
| NETHERLANDS | 926 | 940 | 914 | 176 | 153 | 176 | 1,102 | 1,093 | 1,090 | 16.35 | 16.43 | 16.74 | 100.00 | 100.00 | 100.00 | 99.30 | 100.00 | 100.00 | 99.30 | 100.00 | 100.00 |
| NORTHERN IRELAND (UK) | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 181 | 180 | n/a | 1.80 | 1.81 | n/a | 98.60 | 99.62 | n/a | 75.90 | 75.90 | n/a | 75.90 | 75.90 |
| NORWAY | 317 | 318 | 337 | 205 | 204 | 380 | 522 | 522 | 717 | 4.68 | 4.80 | 4.99 | 90.00 | 90.00 | 82.25 | 82.00 | 82.00 | 84.99 | 82.00 | 81.96 | n/a |
| POLAND | n/a | 2,104 | 1,541 | n/a | 8,648 | 7,662 | n/a | 10,752 | 9,203 | n/a | 38.10 | 38.20 | n/a | 95.20 | 87.50 | n/a | 86.00 | 62.10 | n/a | 85.50 | 65.24 |
| PORTUGAL | 521 | 547 | 617 | 92 | 112 | 126 | 613 | 659 | 743 | 10.60 | 10.63 | 10.56 | 93.30 | 92.00 | 99.71 | 76.00 | 80.00 | 71.04 | 76.00 | 80.00 | 69.78 |
| ROMANIA | 1,300 | n/a | 411 | 2,250 | n/a | 221 | 3,550 | n/a | 632 | 21.50 | n/a | 21.40 | 75.00 | n/a | 55.61 | 53.95 | n/a | 43.69 | 35.00 | n/a | 30.84 |
| SCOTLAND (UK) | n/a | 315 | 308 | n/a | 169 | 156 | n/a | 485 | 464 | n/a | 5.17 | 5.22 | n/a | 96.60 | 95.41 | n/a | 91.00 | n/a | n/a | 91.00 | n/a |
| SINGAPORE | 256 | n/a | 281 | 193 | n/a | 195 | 449 | n/a | 476 | 4.48 | n/a | 5.08 | 100.00 | n/a | 100.00 | 100 | n/a | 100.00 | 100 | n/a | 100.00 |
| SLOVAKIA | n/a | 33 | 32 | n/a | 55 | 55 | n/a | 88 | 87 | n/a | 5.40 | 5.44 | n/a | 86.16 | 86.49 | n/a | 58.00 | 60.33 | n/a | 58.26 | 57.50 |
| SOUTH KOREA | n/a | 7,051 | 3,606 | n/a | 2,861 | 1,269 | n/a | 9,912 | 4,875 | n/a | 50.39 | 51.43 | n/a | 92.73 | 94.09 | n/a | 88.56 | 88.00 | n/a | 88.56 | 88.00 |
| SPAIN | 2,334 | 2,214 | 3,344 | 1,143 | 996 | 942 | 3,477 | 3,210 | 4,285 | 44.71 | 46.75 | 47.02 | 100.00 | 100.00 | 99.96 | 96.00 | 96.00 | 95.46 | 96.00 | 96.00 | 95.46 |
| SWEDEN | 559 | 536 | 464 | 112 | 106 | 103 | 670 | 642 | 566 | 9.11 | 9.26 | 9.42 | 89.00 | 88.15 | 86.50 | 89.00 | 87.00 | 84.65 | 89.00 | 87.37 | 84.65 |
| SWITZERLAND 2 | 624 | 602 | 560 | 158 | 171 | 180 | 782 | 773 | 740 | 7.55 | 7.75 | 7.92 | 99.00 | 99.00 | 99.20 | 97.00 | 97.00 | 94.67 | 97.00 | 97.00 | 94.67 |
| UGANDA 1 | n/a | n/a | 25 | n/a | n/a | 22 | n/a | n/a | 47 | n/a | n/a | 2.95 | n/a | n/a | 74.00 | n/a | n/a | 6.40 | n/a | n/a | n/a |
| UNITED STATES OF AMERICA | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 47,917 | n/a | n/a | 310.00 | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |

1 Only for urban areas

2 Population for Switzerland included Liechtenstein

Average annual water cycle charges in 2011 for a consumption of 200 m³ *
in US\$/200 m³



* Average volume of considered main cities in the country/region

1 Switzerland: average for one-family-houses is displayed in the graph, the charges for flats (in blocks) are quite a bit lower.

Comparison of annual water cycle charges in 2011 related to a consumption of 100 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | GDP PER CAPITA IN US\$ | ACTUAL CHARGES | | | | | | | | | AVERAGE CHARGES | | | | | | | | |
|------------------|---------------------------|------------------------|----------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|-----------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|
| | | | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ |
| ARGENTINA | Buenos Aires | 17,400 | 37.04 | 0.00 | 0.00 | 37.04 | 0.00 | 0.00 | 0.00 | 8.25 | 45.29 | 37.04 | 0.00 | 0.00 | 37.04 | 0.00 | 0.00 | 0.00 | 8.25 | 45.29 |
| ARMENIA | Yerevan | 5,400 | 0.00 | 33.37 | 0.00 | 33.37 | 4.54 | 2.51 | 0.00 | 8.08 | 48.50 | 0.00 | 28.47 | 0.00 | 28.47 | 4.98 | 0.63 | 0.00 | 6.82 | 40.90 |
| | Shirak | | 0.00 | 26.33 | 0.00 | 26.33 | 4.66 | 0.00 | 0.00 | 6.20 | 37.20 | | | | | | | | | |
| | Lori | | 0.00 | 26.39 | 0.00 | 26.39 | 6.18 | 0.00 | 0.00 | 6.52 | 39.09 | | | | | | | | | |
| AUSTRALIA | other cities | | 0.00 | 27.80 | 0.00 | 27.80 | 4.56 | 0.00 | 0.00 | 6.47 | 38.83 | | | | | | | | | |
| | Brisbane | 40,800 | 158.47 | 63.29 | 0.00 | 221.77 | 0.00 | 0.00 | 0.00 | 0.00 | 221.77 | 133.02 | 119.38 | 0.00 | 252.40 | 0.00 | 0.00 | 0.00 | 0.00 | 252.40 |
| | Adelaide | | 140.47 | 99.02 | 0.00 | 239.49 | 0.00 | 0.00 | 0.00 | 0.00 | 239.49 | | | | | | | | | |
| | Melbourne | | 102.89 | 124.54 | 0.00 | 227.43 | 0.00 | 0.00 | 0.00 | 0.00 | 227.43 | | | | | | | | | |
| | Perth | | 204.58 | 74.11 | 0.00 | 278.69 | 0.00 | 0.00 | 0.00 | 0.00 | 278.69 | | | | | | | | | |
| | Sydney | | 92.86 | 183.75 | 0.00 | 276.61 | 0.00 | 0.00 | 0.00 | 0.00 | 276.61 | | | | | | | | | |
| | Canberra | | 91.42 | 199.06 | 0.00 | 290.48 | 0.00 | 0.00 | 0.00 | 0.00 | 290.48 | | | | | | | | | |
| AUSTRIA | Darwin | | 140.47 | 91.88 | 0.00 | 232.34 | 0.00 | 0.00 | 0.00 | 0.00 | 232.34 | | | | | | | | | |
| | Graz | 41,700 | 73.09 | 195.68 | 0.00 | 268.77 | 0.00 | 220.82 | 0.00 | 48.96 | 538.55 | 35.68 | 160.12 | 2.02 | 197.83 | 0.00 | 234.23 | 0.00 | 43.20 | 475.25 |
| | Innsbruck | | 22.70 | 169.76 | 0.00 | 192.47 | 0.00 | 246.22 | 0.00 | 43.87 | 482.55 | | | | | | | | | |
| | Linz | | 31.75 | 112.74 | 10.12 | 154.61 | 0.00 | 209.84 | 0.00 | 36.44 | 400.90 | | | | | | | | | |
| | Salzburg | | 30.32 | 169.50 | 0.00 | 199.83 | 0.00 | 284.58 | 0.00 | 48.44 | 532.84 | | | | | | | | | |
| BELGIUM | Vienna | | 20.54 | 152.92 | 0.00 | 173.45 | 0.00 | 209.68 | 0.00 | 38.31 | 421.44 | | | | | | | | | |
| | Louvain | 37,600 | 58.82 | 149.84 | 0.00 | 208.66 | 162.70 | 116.19 | 0.00 | 29.25 | 516.80 | 64.78 | 173.11 | 0.23 | 238.12 | 121.12 | 108.83 | 0.00 | 28.09 | 496.15 |
| | Antwerp | | 80.99 | 113.81 | 0.00 | 194.80 | 98.63 | 116.22 | 0.00 | 24.58 | 434.23 | | | | | | | | | |
| | Brussels | | 23.13 | 230.03 | 0.00 | 253.17 | 98.40 | 53.20 | 0.00 | 24.28 | 429.04 | | | | | | | | | |
| | Liège | | 115.87 | 259.96 | 1.62 | 377.44 | 0.00 | 127.63 | 0.00 | 30.31 | 535.38 | | | | | | | | | |
| | Kortrijk | | 58.82 | 158.75 | 0.00 | 217.57 | 162.70 | 116.19 | 0.00 | 29.79 | 526.25 | | | | | | | | | |
| BRAZIL | Genk | | 58.82 | 119.07 | 0.00 | 177.89 | 162.70 | 116.19 | 0.00 | 27.41 | 484.18 | | | | | | | | | |
| | Ghent | | 56.98 | 180.34 | 0.00 | 237.32 | 162.70 | 116.19 | 0.00 | 30.97 | 547.18 | | | | | | | | | |
| | SABESP social | 11,600 | 33.07 | 0.00 | 0.00 | 33.07 | 33.07 | 0.00 | 0.00 | 0.00 | 66.13 | 89.88 | 0.00 | 0.00 | 89.88 | 89.88 | 0.00 | 0.00 | 0.00 | 179.77 |
| | SABESP favela | | 25.22 | 0.00 | 0.00 | 25.22 | 25.22 | 0.00 | 0.00 | 0.00 | 50.44 | | | | | | | | | |
| | SABESP residential normal | | 97.53 | 0.00 | 0.00 | 97.53 | 97.53 | 0.00 | 0.00 | 0.00 | 195.05 | | | | | | | | | |
| BULGARIA | SABESP social assistance | | 97.85 | 0.00 | 0.00 | 97.85 | 97.85 | 0.00 | 0.00 | 0.00 | 195.70 | | | | | | | | | |
| | SABESP commercial | | 195.76 | 0.00 | 0.00 | 195.76 | 195.76 | 0.00 | 0.00 | 0.00 | 391.52 | | | | | | | | | |
| | Sofia | 13,500 | 0.00 | 62.29 | 0.00 | 62.29 | 0.00 | 18.55 | 11.93 | 18.55 | 111.32 | 0.00 | 92.77 | 0.00 | 92.77 | 0.00 | 18.16 | 9.14 | 24.01 | 144.08 |
| | Burgas | | 0.00 | 68.25 | 0.00 | 68.25 | 0.00 | 33.79 | 13.25 | 23.06 | 138.36 | | | | | | | | | |
| | Pleven | | 0.00 | 88.79 | 0.00 | 88.79 | 0.00 | 9.28 | 6.63 | 20.94 | 125.63 | | | | | | | | | |
| | Razgrad | | 0.00 | 131.20 | 0.00 | 131.20 | 0.00 | 9.94 | 7.29 | 29.69 | 178.11 | | | | | | | | | |
| BURKINA FASO | Stara Zagora | | 0.00 | 113.31 | 0.00 | 113.31 | 0.00 | 19.22 | 6.63 | 27.83 | 166.98 | | | | | | | | | |
| | Country average | 1,500 | 23.71 | 39.05 | 0.00 | 62.76 | 11.85 | 0.00 | 0.00 | 13.43 | 88.04 | 23.71 | 39.05 | 0.00 | 62.76 | 11.85 | 0.00 | 0.00 | 13.43 | 88.04 |
| CANADA | Calgary | 40,300 | 149.48 | 135.82 | 0.00 | 285.30 | 0.00 | 197.98 | 0.00 | 0.00 | 483.28 | 199.76 | 92.26 | 0.00 | 292.02 | 0.00 | 224.90 | 0.00 | 0.00 | 516.92 |
| | Winnipeg | | 53.05 | 131.64 | 0.00 | 184.69 | 0.00 | 193.54 | 0.00 | 0.00 | 378.23 | | | | | | | | | |
| | Regina | | 186.50 | 121.82 | 0.00 | 308.32 | 0.00 | 252.52 | 0.00 | 0.00 | 560.84 | | | | | | | | | |
| | Richmond | | 464.40 | 0.00 | 0.00 | 464.40 | 0.00 | 300.62 | 0.00 | 0.00 | 765.02 | | | | | | | | | |
| | Durham | | 145.36 | 72.01 | 0.00 | 217.37 | 0.00 | 179.84 | 0.00 | 0.00 | 397.21 | | | | | | | | | |
| CHILE | Santiago de Chile | 16,100 | 13.59 | 57.71 | 0.00 | 71.30 | 45.13 | 26.25 | 0.00 | 27.11 | 169.79 | 16.86 | 79.99 | 0.00 | 96.85 | 70.72 | 8.75 | 0.00 | 33.50 | 209.82 |
| | Valparaiso | | 21.92 | 114.32 | 0.00 | 136.24 | 84.33 | 0.00 | 0.00 | 41.91 | 262.48 | | | | | | | | | |
| | Concepcion | | 15.07 | 67.95 | 0.00 | 83.02 | 82.70 | 0.00 | 0.00 | 31.49 | 197.21 | | | | | | | | | |
| CHINA | Beijing | 8,400 | 26.99 | 0.00 | 20.00 | 46.99 | 0.00 | 16.51 | 0.00 | 0.00 | 63.50 | 26.00 | 0.00 | 5.00 | 31.00 | 0.00 | 16.43 | 0.00 | 0.00 | 51.91 |
| | Shanghai | | 25.88 | 0.00 | 0.00 | 25.88 | 0.00 | 20.64 | 0.00 | 0.00 | 46.51 | | | | | | | | | |
| | Tianjin | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | 69.85 | | | | | | | | | |
| | Shenzhen | | 30.16 | 0.00 | 0.00 | 30.16 | 0.00 | 14.29 | 0.00 | 0.00 | 44.45 | | | | | | | | | |
| HONG KONG, CHINA | Guangzhou | | 20.95 | 0.00 | 0.00 | 20.95 | 0.00 | 14.29 | 0.00 | 0.00 | 35.24 | | | | | | | | | |
| | Hong Kong | 49,300 | 0.00 | 33.74 | 0.00 | 33.74 | 0.00 | 20.21 | 0.00 | 0.00 | 53.96 | 0.00 | 33.74 | 0.00 | 0.00 | 0.00 | 20.21 | 0.00 | 0.00 | 53.96 |
| CHINESE TAIWAN | Taipei | 37,900 | 25.70 | 15.75 | 0.00 | 41.45 | 16.54 | 0.00 | 0.66 | 2.07 | 60.73 | 19.60 | 19.45 | 0.00 | 39.05 | 13.23 | 0.00 | 7.69 | 1.95 | 61.92 |
| | Kaohsiung | | 13.49 | 23.15 | 0.00 | 36.65 | 9.92 | 0.00 | 14.72 | 1.83 | 63.12 | | | | | | | | | |

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Source:

For exchange rates to US\$ as per 31 December 2011: <http://nl.exchange-rates.org/historicalrates/E/USD/31-12-2011>.

For Gross Domestic Product (GDP): World Fact Book <https://www.cia.gov/library/publications/the-world-factbook/>

Comparison of annual water cycle charges in 2011 related to a consumption of 100 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | GDP PER CAPITA IN US\$ | ACTUAL CHARGES | | | | | | | | | AVERAGE CHARGES | | | | | | | | |
|----------------|-----------------|------------------------|----------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|-----------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|
| | | | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ |
| CYPRUS | Larnaca | 29,100 | 85.53 | 107.56 | 0.00 | 193.09 | 55.72 | 233.26 | 58.32 | 8.10 | 548.49 | 67.43 | 85.08 | 0.00 | 152.51 | 58.96 | 247.25 | 46.06 | 7.24 | 512.01 |
| | Lefkosa | | 44.24 | 108.60 | 0.00 | 152.84 | 64.79 | 278.62 | 0.00 | 7.65 | 503.89 | | | | | | | | | |
| | Lemesos | | 77.75 | 62.20 | 0.00 | 139.96 | 59.61 | 281.10 | 54.63 | 7.00 | 542.30 | | | | | | | | | |
| DENMARK | Paphos | | 62.20 | 61.94 | 0.00 | 124.15 | 55.72 | 196.00 | 71.27 | 6.21 | 453.35 | | | | | | | | | |
| | Aalborg | 40,200 | 174.47 | 79.39 | 94.22 | 348.08 | 4.36 | 384.80 | 0.00 | 184.24 | 921.49 | 107.77 | 116.03 | 94.22 | 318.01 | 4.75 | 348.51 | 0.00 | 167.80 | 839.08 |
| | Aarhus | | 76.16 | 139.58 | 94.22 | 309.95 | 4.36 | 366.05 | 0.00 | 170.11 | 850.48 | | | | | | | | | |
| | Copenhagen | | 62.81 | 162.61 | 94.22 | 319.64 | 5.23 | 295.39 | 0.00 | 155.07 | 775.33 | | | | | | | | | |
| | Esbjerg | | 141.67 | 91.25 | 94.22 | 327.14 | 4.01 | 344.41 | 0.00 | 168.89 | 844.46 | | | | | | | | | |
| FINLAND | Odense | | 83.75 | 107.30 | 94.22 | 285.27 | 5.76 | 351.91 | 0.00 | 160.69 | 803.63 | | | | | | | | | |
| | Espoo | 38,300 | 28.07 | 139.07 | 0.00 | 167.14 | 0.00 | 167.52 | 42.10 | 86.66 | 463.42 | 51.63 | 132.93 | 0.00 | 184.56 | 0.00 | 173.84 | 51.24 | 94.22 | 503.85 |
| | Helsinki | | 42.78 | 107.47 | 0.00 | 150.25 | 0.00 | 151.71 | 64.17 | 84.21 | 450.33 | | | | | | | | | |
| | Oulu | | 50.98 | 141.17 | 0.00 | 192.15 | 0.00 | 192.80 | 0.00 | 88.54 | 473.49 | | | | | | | | | |
| | Tampere | | 68.27 | 108.52 | 0.00 | 176.79 | 0.00 | 168.57 | 68.27 | 95.13 | 508.75 | | | | | | | | | |
| FRANCE | Turku | | 93.30 | 164.36 | 0.00 | 257.66 | 0.00 | 189.64 | 93.30 | 124.34 | 664.95 | | | | | | | | | |
| | Vantaa | | 26.40 | 136.96 | 0.00 | 163.36 | 0.00 | 172.78 | 39.60 | 86.42 | 462.17 | | | | | | | | | |
| | Bordeaux | 35,000 | 81.16 | 136.04 | 33.97 | 251.17 | 0.00 | 165.77 | 20.33 | 24.05 | 461.32 | 53.53 | 146.42 | 6.79 | 206.74 | 0.00 | 148.59 | 66.37 | 23.90 | 445.60 |
| | SEDIF | | 33.82 | 168.48 | 0.00 | 202.30 | 0.00 | 184.83 | 97.54 | 30.22 | 514.90 | | | | | | | | | |
| | Lille | | 43.54 | 155.69 | 0.00 | 199.23 | 0.00 | 172.63 | 70.15 | 24.31 | 466.31 | | | | | | | | | |
| GABON | Lyon | | 84.22 | 137.73 | 0.00 | 221.95 | 0.00 | 101.11 | 50.98 | 20.57 | 394.60 | | | | | | | | | |
| | Paris | | 24.91 | 134.15 | 0.00 | 159.06 | 0.00 | 118.60 | 92.85 | 20.37 | 390.88 | | | | | | | | | |
| | Urban average | 16,000 | 6.71 | 37.56 | 0.00 | 44.27 | 0.00 | 0.00 | 0.00 | 4.43 | 48.70 | 6.71 | 37.56 | 0.00 | 44.27 | 0.00 | 0.00 | 0.00 | 4.43 | 48.70 |
| | Country average | 37,900 | 27.08 | 206.69 | 0.00 | 233.78 | 16.33 | 327.86 | 0.00 | 0.00 | 577.97 | 27.08 | 206.69 | 0.00 | 233.78 | 16.33 | 327.86 | 0.00 | 0.00 | 577.97 |
| GERMANY | Budapest | 19,600 | 9.51 | 77.03 | 0.00 | 86.54 | 133.86 | 0.00 | 0.00 | 55.10 | 275.50 | 2.38 | 101.82 | 0.00 | 104.19 | 95.74 | 0.00 | 0.00 | 49.98 | 249.91 |
| | Debrecen | | 0.00 | 84.77 | 0.00 | 84.77 | 67.49 | 0.00 | 0.00 | 38.06 | 190.32 | | | | | | | | | |
| | Miskolc | | 0.00 | 105.55 | 0.00 | 105.55 | 81.19 | 0.00 | 0.00 | 46.68 | 233.42 | | | | | | | | | |
| | Pécs | | 0.00 | 139.91 | 0.00 | 139.91 | 100.41 | 0.00 | 0.00 | 60.08 | 300.39 | | | | | | | | | |
| IRAN | Country average | 12,200 | n/a | n/a | n/a | 22.41 | n/a | n/a | n/a | n/a | 22.41 | n/a | n/a | n/a | 22.41 | n/a | n/a | n/a | n/a | 22.41 |
| | Jerusalem | 31,000 | 0.00 | 194.84 | 0.00 | 194.84 | 0.00 | 0.00 | 0.00 | 31.16 | 226.00 | 0.00 | 194.84 | 0.00 | 194.84 | 0.00 | 0.00 | 0.00 | 31.16 | 226.00 |
| JAPAN | Nagoya | 34,300 | 97.31 | 3.11 | 0.00 | 100.43 | 87.19 | 0.00 | 0.00 | 9.38 | 197.00 | 151.13 | 18.48 | 0 | 169.61 | 101.54 | 0 | 0 | 13.47 | 284.62 |
| | Osaka | | 147.92 | 0.00 | 0.00 | 147.92 | 85.64 | 0.00 | 0.00 | 11.52 | 245.08 | | | | | | | | | |
| | Hiroshima | | 126.12 | 6.49 | 0.00 | 132.61 | 110.03 | 0.00 | 0.00 | 11.99 | 254.63 | | | | | | | | | |
| | Fukuoka | | 132.35 | 21.18 | 0.00 | 153.52 | 134.53 | 0.00 | 0.00 | 14.32 | 302.37 | | | | | | | | | |
| | Sapporo | | 205.53 | 0.00 | 0.00 | 205.53 | 93.42 | 0.00 | 0.00 | 14.95 | 313.90 | | | | | | | | | |
| | Sendai | | 194.63 | 103.39 | 0.00 | 298.01 | 109.46 | 0.00 | 0.00 | 20.24 | 427.72 | | | | | | | | | |
| | Tokyo | | 182.17 | 11.42 | 0.00 | 193.59 | 92.90 | 0.00 | 0.00 | 14.17 | 300.66 | | | | | | | | | |
| | Yokohama | | 123.01 | 2.23 | 0.00 | 125.24 | 99.13 | 0.00 | 0.00 | 11.21 | 235.58 | | | | | | | | | |
| LITHUANIA | Kaunas | 18,700 | 14.64 | 68.31 | 0.00 | 82.94 | 74.69 | 0.00 | 0.00 | 33.10 | 190.73 | 14.29 | 72.58 | 0 | 86.88 | 90.60 | 0 | 0 | 37.27 | 214.75 |
| | Klaipeda | | 17.65 | 61.93 | 0.00 | 79.58 | 87.82 | 0.00 | 0.00 | 35.16 | 202.56 | | | | | | | | | |
| | Panevezys | | 11.57 | 62.68 | 0.00 | 74.25 | 119.35 | 0.00 | 0.00 | 40.66 | 234.26 | | | | | | | | | |
| | Siauliai | | 13.02 | 106.96 | 0.00 | 119.98 | 98.71 | 0.00 | 0.00 | 45.92 | 264.61 | | | | | | | | | |
| MACAO, CHINA | Vilnius | | 14.59 | 63.05 | 0.00 | 77.64 | 72.43 | 0.00 | 0.00 | 31.51 | 181.59 | | | | | | | | | |
| | Country average | 33,000 | 0.00 | 54.44 | 0.00 | 54.44 | 0.00 | 0.00 | 0.00 | 0.00 | 54.44 | 0.00 | 54.44 | 0.00 | 54.44 | 0.00 | 0.00 | 0.00 | 0.00 | 54.44 |
| MALAWI | Blantyre | 900 | 2.22 | 75.69 | 0.00 | 77.90 | 0.00 | 0.00 | 0.00 | 0.00 | 77.90 | 2.22 | 75.69 | 0.00 | 77.90 | 0.00 | 0.00 | 0.00 | 0.00 | 77.90 |
| MAURITIUS | Mauritius | 15,000 | 18.35 | 0.00 | 0.00 | 18.35 | 22.43 | 22.43 | 0.00 | 0.00 | 63.20 | 18.35 | 0.00 | 0.00 | 18.35 | 22.43 | 22.43 | 0.00 | 0.00 | 63.20 |
| MOROCCO | Casablanca | 5,100 | 9.79 | 38.69 | 0.00 | 48.48 | 19.39 | 0.00 | 0.00 | 4.75 | 72.62 | 9.38 | 41.62 | 0.00 | 51.00 | 16.38 | 0.00 | 0.00 | 4.72 | 72.10 |
| | Rabat/Sale | | 11.95 | 44.39 | 0.00 | 56.35 | 19.08 | 0.00 | 0.00 | 5.28 | 80.71 | | | | | | | | | |
| | Tanger | | 8.39 | 44.53 | 0.00 | 52.92 | 12.63 | 0.00 | 0.00 | 4.59 | 70.13 | | | | | | | | | |
| | Tetouan | | 8.39 | 45.47 | 0.00 | 53.85 | 12.94 | 0.00 | 0.00 | 4.68 | 71.47 | | | | | | | | | |
| | Marrakech | | 8.39 | 35.04 | 0.00 | 43.43 | 17.84 | 0.00 | 0.00 | 4.29 | 65.56 | | | | | | | | | |

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Comparison of annual water cycle charges in 2011 related to a consumption of 100 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | GDP PER CAPITA IN US\$ | ACTUAL CHARGES | | | | | | | | | AVERAGE CHARGES | | | | | | | | |
|-----------------------|------------------|------------------------|----------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|-----------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|
| | | | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ |
| NETHERLANDS | Amsterdam | 42,300 | 54.62 | 163.28 | 0.00 | 217.90 | 191.79 | 193.09 | 20.48 | 14.31 | 637.57 | 65.30 | 130.22 | 6.05 | 201.57 | 210.97 | 193.09 | 20.48 | 13.32 | 639.43 |
| | Rotterdam | | 77.44 | 123.24 | 9.37 | 210.05 | 237.15 | 193.09 | 20.48 | 13.83 | 674.59 | | | | | | | | | |
| | Den Haag | | 75.27 | 141.25 | 20.86 | 237.38 | 163.28 | 193.09 | 20.48 | 15.47 | 629.70 | | | | | | | | | |
| | Utrecht | | 32.40 | 136.72 | 0.00 | 169.11 | 281.21 | 193.09 | 20.48 | 11.38 | 675.26 | | | | | | | | | |
| | Eindhoven | | 86.77 | 86.63 | 0.00 | 173.40 | 181.42 | 193.09 | 20.48 | 11.64 | 580.03 | | | | | | | | | |
| NORTHERN IRELAND (UK) | Country average | 39,500 | 145.92 | 161.45 | 0.00 | 307.37 | 0.00 | 462.60 | 0.00 | 62.09 | 832.07 | 145.92 | 161.45 | 0.00 | 307.37 | 0.00 | 462.60 | 0.00 | 62.09 | 832.07 |
| NORWAY | Bergen | 53,300 | 60.22 | 115.93 | 0.00 | 176.15 | 192.55 | 0.00 | 0.00 | 92.17 | 460.87 | 48.09 | 115.09 | 0.00 | 163.19 | 182.09 | 0.00 | 0.00 | 86.32 | 431.60 |
| | Oslo | | 35.97 | 114.26 | 0.00 | 150.22 | 171.64 | 0.00 | 0.00 | 80.46 | 402.32 | | | | | | | | | |
| POLAND | Bydgoszcz | 20,100 | 0.00 | 166.00 | 0.00 | 166.00 | 0.00 | 150.01 | 0.00 | 0.00 | 316.02 | 0.00 | 105.07 | 0.00 | 105.07 | 0.00 | 122.69 | 0.00 | 0.00 | 227.75 |
| | Wroclaw | | 0.00 | 110.48 | 0.00 | 110.48 | 0.00 | 114.84 | 0.00 | 0.00 | 225.31 | | | | | | | | | |
| | Radom | | 0.00 | 80.82 | 0.00 | 80.82 | 0.00 | 114.25 | 0.00 | 0.00 | 195.08 | | | | | | | | | |
| | Bialystok | | 0.00 | 93.90 | 0.00 | 93.90 | 0.00 | 92.45 | 0.00 | 0.00 | 186.35 | | | | | | | | | |
| | Tarnow | | 0.00 | 74.13 | 0.00 | 74.13 | 0.00 | 141.87 | 0.00 | 0.00 | 216.01 | | | | | | | | | |
| PORTUGAL | Lisbon | 23,200 | 62.67 | 45.19 | 13.68 | 121.54 | 0.00 | 44.73 | 2.72 | 6.63 | 175.63 | 50.68 | 75.51 | 1.95 | 128.14 | 0.00 | 91.97 | 6.39 | 10.69 | 237.19 |
| | Sintra | | 63.29 | 91.94 | 0.00 | 155.23 | 0.00 | 137.17 | 13.28 | 10.11 | 315.80 | | | | | | | | | |
| | Porto | | 51.99 | 94.21 | 0.00 | 146.20 | 0.00 | 78.43 | 8.53 | 14.00 | 247.15 | | | | | | | | | |
| | Loures | | 38.88 | 96.28 | 0.00 | 135.16 | 0.00 | 94.43 | 5.05 | 8.11 | 242.76 | | | | | | | | | |
| | Braga | | 42.61 | 58.55 | 0.00 | 101.16 | 0.00 | 81.74 | 6.79 | 8.79 | 198.48 | | | | | | | | | |
| | Coimbra | | 58.00 | 80.49 | 0.00 | 138.49 | 0.00 | 98.00 | 4.42 | 14.45 | 255.36 | | | | | | | | | |
| | Faro | | 37.32 | 61.89 | 0.00 | 99.21 | 0.00 | 109.26 | 3.95 | 12.74 | 225.16 | | | | | | | | | |
| ROMANIA | Cluj | 12,300 | 0.00 | 71.78 | 0.00 | 71.78 | 61.57 | 0.00 | 0.00 | 32.01 | 165.36 | 0.00 | 80.71 | 0.00 | 80.71 | 51.94 | 0.00 | 0.00 | 31.84 | 164.49 |
| | Iasi | | 0.00 | 88.30 | 0.00 | 88.30 | 59.17 | 0.00 | 0.00 | 35.39 | 182.87 | | | | | | | | | |
| | Oradea | | 0.00 | 83.20 | 0.00 | 83.20 | 34.54 | 0.00 | 0.00 | 28.26 | 146.00 | | | | | | | | | |
| | Brasov | | 0.00 | 84.10 | 0.00 | 84.10 | 57.97 | 0.00 | 0.00 | 34.10 | 176.16 | | | | | | | | | |
| | Timisoara | | 0.00 | 63.67 | 0.00 | 63.67 | 55.57 | 0.00 | 0.00 | 28.62 | 147.86 | | | | | | | | | |
| | Braila | | 0.00 | 80.19 | 0.00 | 80.19 | 49.26 | 0.00 | 0.00 | 31.07 | 160.52 | | | | | | | | | |
| | Sibiu | | 0.00 | 75.39 | 0.00 | 75.39 | 38.45 | 0.00 | 0.00 | 27.32 | 141.15 | | | | | | | | | |
| | Constanta | | 0.00 | 90.11 | 0.00 | 90.11 | 80.19 | 0.00 | 0.00 | 40.87 | 211.17 | | | | | | | | | |
| | Arad | | 0.00 | 79.59 | 0.00 | 79.59 | 79.59 | 0.00 | 0.00 | 38.20 | 197.39 | | | | | | | | | |
| | Bistrita | | 0.00 | 76.29 | 0.00 | 76.29 | 41.15 | 0.00 | 0.00 | 28.19 | 145.62 | | | | | | | | | |
| | Buzau | | 0.00 | 97.91 | 0.00 | 97.91 | 51.36 | 0.00 | 0.00 | 35.83 | 185.10 | | | | | | | | | |
| | Tg Mures | | 0.00 | 80.19 | 0.00 | 80.19 | 71.48 | 0.00 | 0.00 | 36.40 | 188.08 | | | | | | | | | |
| | Satu Mare | | 0.00 | 82.30 | 0.00 | 82.30 | 45.35 | 0.00 | 0.00 | 30.64 | 158.29 | | | | | | | | | |
| | Vrancea | | 0.00 | 79.59 | 0.00 | 79.59 | 61.87 | 0.00 | 0.00 | 33.95 | 175.42 | | | | | | | | | |
| | Alba | | 0.00 | 73.59 | 0.00 | 73.59 | 41.75 | 0.00 | 0.00 | 27.68 | 143.02 | | | | | | | | | |
| Maramure | | 0.00 | 75.39 | 0.00 | 75.39 | 41.15 | 0.00 | 0.00 | 27.97 | 144.51 | | | | | | | | | | |
| Severin | | 0.00 | 82.30 | 0.00 | 82.30 | 8.71 | 0.00 | 0.00 | 21.84 | 112.85 | | | | | | | | | | |
| Medias | | 0.00 | 88.90 | 0.00 | 88.90 | 55.87 | 0.00 | 0.00 | 34.74 | 179.51 | | | | | | | | | | |
| SCOTLAND (UK) | Scotland: Band A | 35,900 | 0.00 | 0.00 | 188.52 | 188.52 | 0.00 | 218.79 | 0.00 | 0.00 | 407.31 | 0.00 | 0.00 | 341.69 | 341.69 | 0.00 | 396.56 | 0.00 | 0.00 | 738.25 |
| | Scotland: Band B | | 0.00 | 0.00 | 219.94 | 219.94 | 0.00 | 255.25 | 0.00 | 0.00 | 475.19 | | | | | | | | | |
| | Scotland: Band C | | 0.00 | 0.00 | 251.36 | 251.36 | 0.00 | 291.72 | 0.00 | 0.00 | 543.08 | | | | | | | | | |
| | Scotland: Band D | | 0.00 | 0.00 | 282.78 | 282.78 | 0.00 | 328.18 | 0.00 | 0.00 | 610.96 | | | | | | | | | |
| | Scotland: Band E | | 0.00 | 0.00 | 345.62 | 345.62 | 0.00 | 401.11 | 0.00 | 0.00 | 746.73 | | | | | | | | | |
| | Scotland: Band F | | 0.00 | 0.00 | 408.46 | 408.46 | 0.00 | 474.04 | 0.00 | 0.00 | 882.50 | | | | | | | | | |
| | Scotland: Band G | | 0.00 | 0.00 | 471.30 | 471.30 | 0.00 | 546.97 | 0.00 | 0.00 | 1,018.27 | | | | | | | | | |
| | Scotland: Band H | | 0.00 | 0.00 | 565.56 | 565.56 | 0.00 | 656.37 | 0.00 | 0.00 | 1,221.93 | | | | | | | | | |

Continued...

Source:

For exchange rates to US\$ as per 31 December 2011: <http://nl.exchange-rates.org/historicalrates/E/USD/31-12-2011>.

For Gross Domestic Product (GDP): World Fact Book <https://www.cia.gov/library/publications/the-world-factbook/>

Comparison of annual water cycle charges in 2011 related to a consumption of 100 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | ACTUAL CHARGES | | | | | | | | | | AVERAGE CHARGES | | | | | | | | | |
|--------------------------|-----------------|------------------------|--------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|-----------------|-----------------|------------------------------|-----------------------------|-----------------|------------------------------|---------------|-------------------|---|--|
| | | GDP PER CAPITA IN US\$ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE WATER TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 100 m ³ | |
| SINGAPORE | Singapore | 59,900 | 0.00 | 90.23 | 27.07 | 117.30 | 0.00 | 21.62 | 51.90 | 13.36 | 204.18 | 0.00 | 90.23 | 27.07 | 117.30 | 0.00 | 21.62 | 51.90 | 13.36 | 204.18 | |
| SLOVAKIA | Bratislava | 23,400 | 107.56 | 0.00 | 0.00 | 107.56 | 107.56 | 0.00 | 0.00 | 41.47 | 256.59 | 128.29 | 0.00 | 0.00 | 128.29 | 102.81 | 0.00 | 0.00 | 46.22 | 277.32 | |
| | Nitra | | 125.70 | 0.00 | 0.00 | 125.70 | 99.78 | 0.00 | 0.00 | 51.84 | 277.32 | | | | | | | | | | |
| | Košice | | 151.62 | 0.00 | 0.00 | 151.62 | 101.08 | 0.00 | 0.00 | 45.36 | 298.05 | | | | | | | | | | |
| SOUTH KOREA | Seoul | 31,700 | 0.00 | 44.30 | 0.00 | 44.30 | 24.32 | 0.00 | 0.00 | 0.00 | 68.62 | 0.00 | 50.40 | 0.00 | 50.40 | 26.54 | 0.00 | 0.00 | 0.00 | 76.94 | |
| | Busan | | 0.00 | 54.73 | 0.00 | 54.73 | 33.16 | 0.00 | 0.00 | 0.00 | 87.89 | | | | | | | | | | |
| | Daegu | | 0.00 | 46.49 | 0.00 | 46.49 | 25.31 | 0.00 | 0.00 | 0.00 | 71.81 | | | | | | | | | | |
| | Incheon | | 0.00 | 54.85 | 0.00 | 54.85 | 25.68 | 0.00 | 0.00 | 0.00 | 80.53 | | | | | | | | | | |
| | Gwangju | | 0.00 | 42.94 | 0.00 | 42.94 | 30.12 | 0.00 | 0.00 | 0.00 | 73.07 | | | | | | | | | | |
| | Daejeon | | 0.00 | 41.09 | 0.00 | 41.09 | 26.94 | 0.00 | 0.00 | 0.00 | 68.03 | | | | | | | | | | |
| | Ulsan | | 0.00 | 65.52 | 0.00 | 65.52 | 24.79 | 0.00 | 0.00 | 0.00 | 90.31 | | | | | | | | | | |
| | Gyeonggi | | 0.00 | 53.29 | 0.00 | 53.29 | 21.97 | 0.00 | 0.00 | 0.00 | 75.26 | | | | | | | | | | |
| SPAIN | Barcelona | 30,600 | 79.31 | 77.24 | 0.00 | 156.54 | 19.80 | 56.24 | 0.00 | 17.05 | 249.64 | 58.10 | 58.96 | 12.21 | 129.28 | 25.51 | 64.88 | 7.23 | 15.61 | 242.51 | |
| | Bilbao | | 26.37 | 55.22 | 0.00 | 81.59 | 12.96 | 77.04 | 5.43 | 13.67 | 190.69 | | | | | | | | | | |
| | Madrid | | 85.02 | 52.37 | 0.00 | 137.39 | 19.76 | 60.86 | 0.00 | 17.44 | 235.45 | | | | | | | | | | |
| | Sevilla | | 45.94 | 45.74 | 12.44 | 104.12 | 38.49 | 41.47 | 30.71 | 15.03 | 229.83 | | | | | | | | | | |
| | Valencia | | 53.87 | 64.24 | 48.62 | 166.73 | 36.56 | 88.79 | 0.00 | 14.84 | 306.92 | | | | | | | | | | |
| SWEDEN | Stockholm | 40,600 | 89.38 | 32.34 | 0.00 | 121.73 | 134.13 | 28.52 | 0.00 | 71.10 | 355.48 | 86.86 | 66.20 | 0.00 | 153.05 | 130.28 | 87.51 | 0.00 | 92.71 | 463.55 | |
| | Göteborg | | 117.90 | 60.86 | 0.00 | 178.77 | 176.80 | 78.02 | 0.00 | 108.40 | 541.98 | | | | | | | | | | |
| | Malmö | | 95.53 | 47.07 | 0.00 | 142.60 | 143.29 | 50.08 | 0.00 | 83.99 | 419.96 | | | | | | | | | | |
| | Uppsala | | 0.00 | 129.26 | 0.00 | 129.26 | 0.00 | 193.95 | 0.00 | 80.80 | 404.02 | | | | | | | | | | |
| | Linköping | | 131.47 | 61.44 | 0.00 | 192.91 | 197.20 | 86.95 | 0.00 | 119.26 | 596.32 | | | | | | | | | | |
| SWITZERLAND 1 | Geneva | 43,400 | 265.94 | 134.25 | 0.00 | 400.20 | 148.53 | 0.00 | 0.00 | 13.32 | 562.04 | 208.64 | 182.62 | 0 | 391.27 | 267.73 | 0 | 0 | 16.09 | 675.09 | |
| | Zurich | | 239.73 | 127.86 | 0.00 | 367.59 | 476.27 | 0.00 | 0.00 | 20.73 | 864.60 | | | | | | | | | | |
| | Lausanne | | 308.46 | 207.77 | 0.00 | 516.23 | 127.86 | 0.00 | 0.00 | 15.59 | 659.67 | | | | | | | | | | |
| | Basel | | 191.79 | 155.56 | 0.00 | 347.35 | 207.77 | 0.00 | 0.00 | 13.53 | 568.65 | | | | | | | | | | |
| | Bern | | 37.29 | 287.68 | 0.00 | 324.97 | 378.25 | 0.00 | 0.00 | 17.26 | 720.48 | | | | | | | | | | |
| UGANDA | residential | 1,300 | 0.00 | 70.01 | 0.00 | 70.01 | 33.60 | 0.00 | 0.00 | 18.65 | 122.26 | 0.00 | 70.01 | 0.00 | 70.01 | 33.60 | 0.00 | 0.00 | 18.65 | 122.26 | |
| UNITED KINGDOM | Birmingham | 35,900 | 40.41 | 226.75 | 0.00 | 267.16 | 0.00 | 156.54 | 0.00 | 0.00 | 423.70 | 44.71 | 201.25 | 0.00 | 245.97 | 0.00 | 245.65 | 0.00 | 0.00 | 491.62 | |
| | Cardiff | | 46.57 | 194.39 | 0.00 | 240.96 | 0.00 | 342.70 | 0.00 | 0.00 | 583.66 | | | | | | | | | | |
| | London | | 41.91 | 182.90 | 0.00 | 224.81 | 0.00 | 166.10 | 0.00 | 0.00 | 390.92 | | | | | | | | | | |
| | Manchester | | 49.68 | 226.18 | 0.00 | 275.85 | 0.00 | 301.78 | 0.00 | 0.00 | 577.63 | | | | | | | | | | |
| | Leeds | | 45.00 | 176.04 | 0.00 | 221.04 | 0.00 | 261.15 | 0.00 | 0.00 | 482.19 | | | | | | | | | | |
| UNITED STATES OF AMERICA | New York | 48,100 | 126.00 | 111.93 | 0.00 | 237.93 | 0.00 | 177.97 | 0.00 | 0.00 | 415.90 | 62.54 | 74.70 | 0.00 | 137.23 | 0.97 | 105.82 | 0.00 | 0.00 | 244.02 | |
| | Washington D.C. | | 173.40 | 114.40 | 0.00 | 287.80 | 0.00 | 139.82 | 0.00 | 0.00 | 427.62 | | | | | | | | | | |
| | Los Angeles | | 0.00 | 64.37 | 0.00 | 64.37 | 0.00 | 64.61 | 0.00 | 0.00 | 128.98 | | | | | | | | | | |
| | Chicago | | 0.00 | 88.63 | 0.00 | 88.63 | 0.00 | 59.02 | 0.00 | 0.00 | 147.65 | | | | | | | | | | |
| | Denver | | 75.96 | 67.11 | 0.00 | 143.07 | 0.00 | 115.56 | 0.00 | 0.00 | 258.63 | | | | | | | | | | |
| | Miami | | 38.40 | 13.20 | 0.00 | 51.60 | 0.00 | 87.72 | 0.00 | 0.00 | 139.32 | | | | | | | | | | |
| | Minneapolis | | 24.00 | 63.23 | 0.00 | 87.23 | 6.76 | 96.06 | 0.00 | 0.00 | 190.05 | | | | | | | | | | |

Source:
For exchange rates to US\$ as per 31 December 2011: <http://nl.exchange-rates.org/historicalrates/E/USD/31-12-2011>.
For Gross Domestic Product (GDP): World Fact Book <https://www.cia.gov/library/publications/the-world-factbook/>
1 Switzerland: average for one-family-houses is displayed in the table, the charges for flats (in blocks) are quite a bit lower.

Total charge drinking water for 180 cities in 2011
for a consumption of 100 m³ in US\$

600

500

400

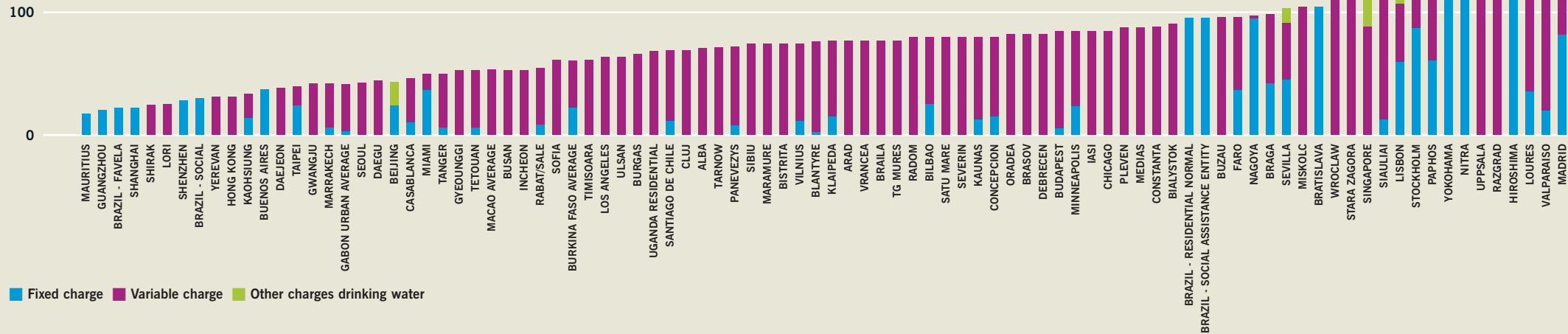
300

200

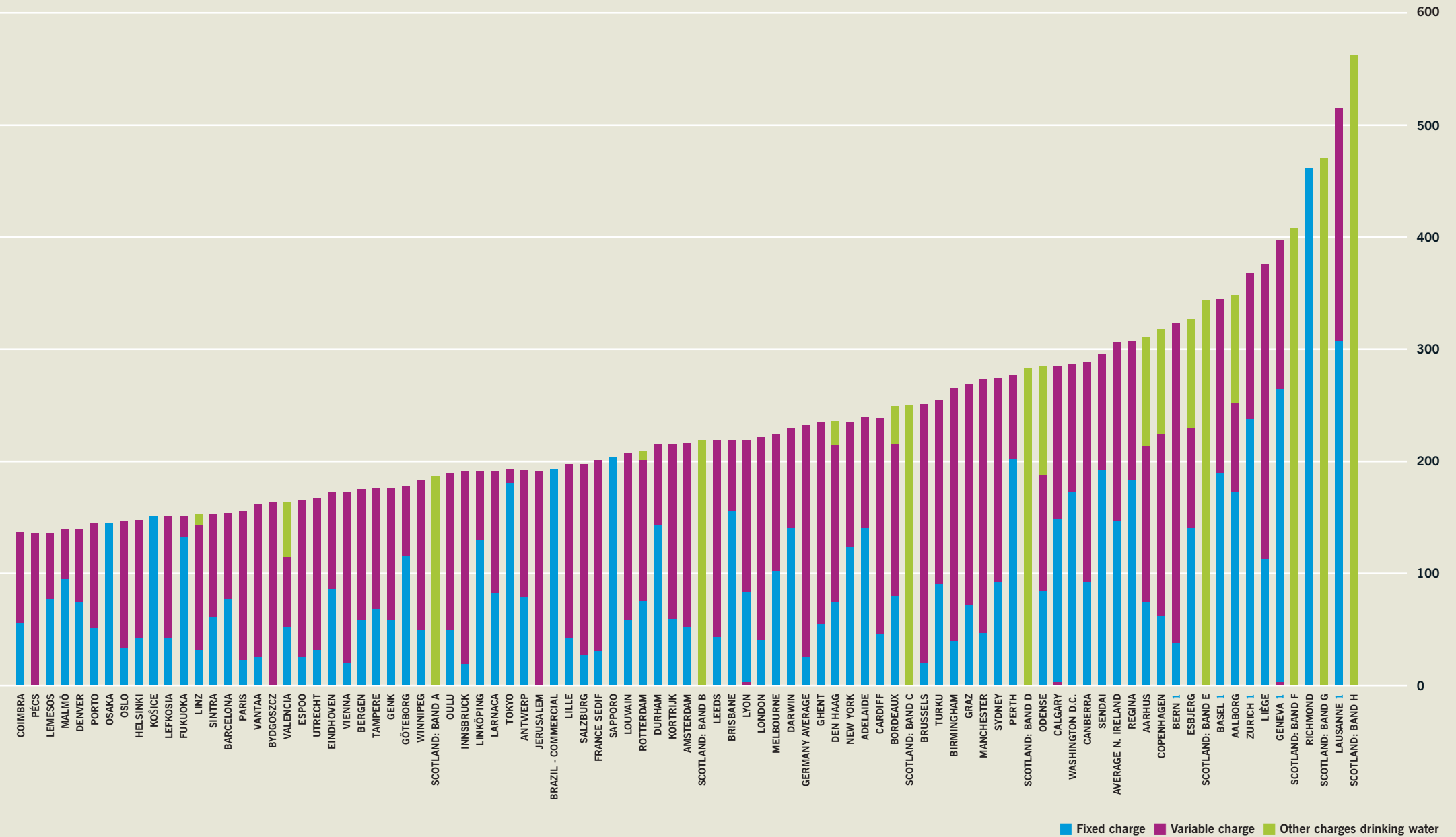
100

0

'From 18 US\$ to 565 US\$ for 100 m³'

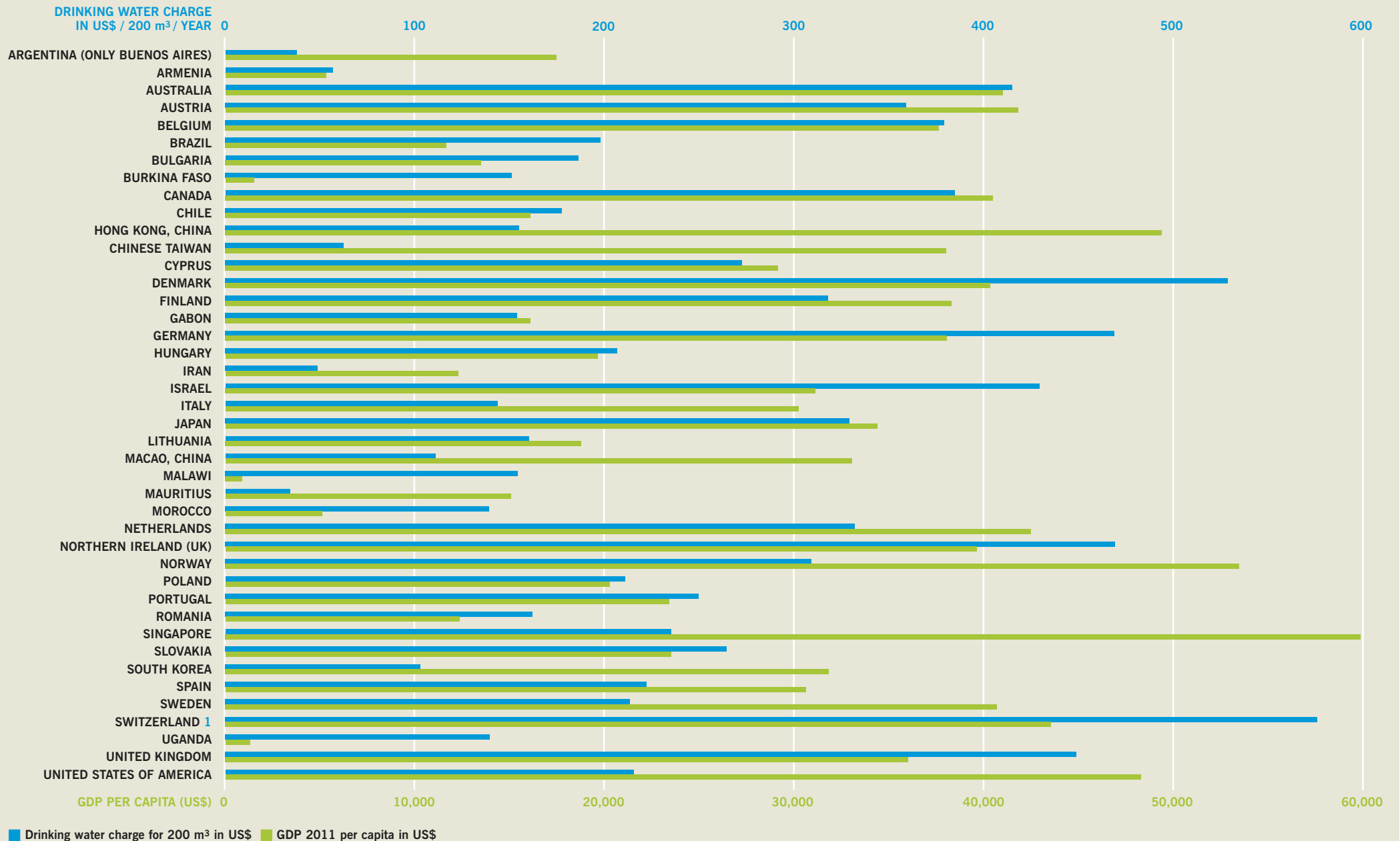


Total charge drinking water for 180 cities in 2011 for a consumption of 100 m³ in US\$



¹ Switzerland: average for one-family-houses is displayed in the graph, the charges for flats (in blocks) are quite a bit lower.

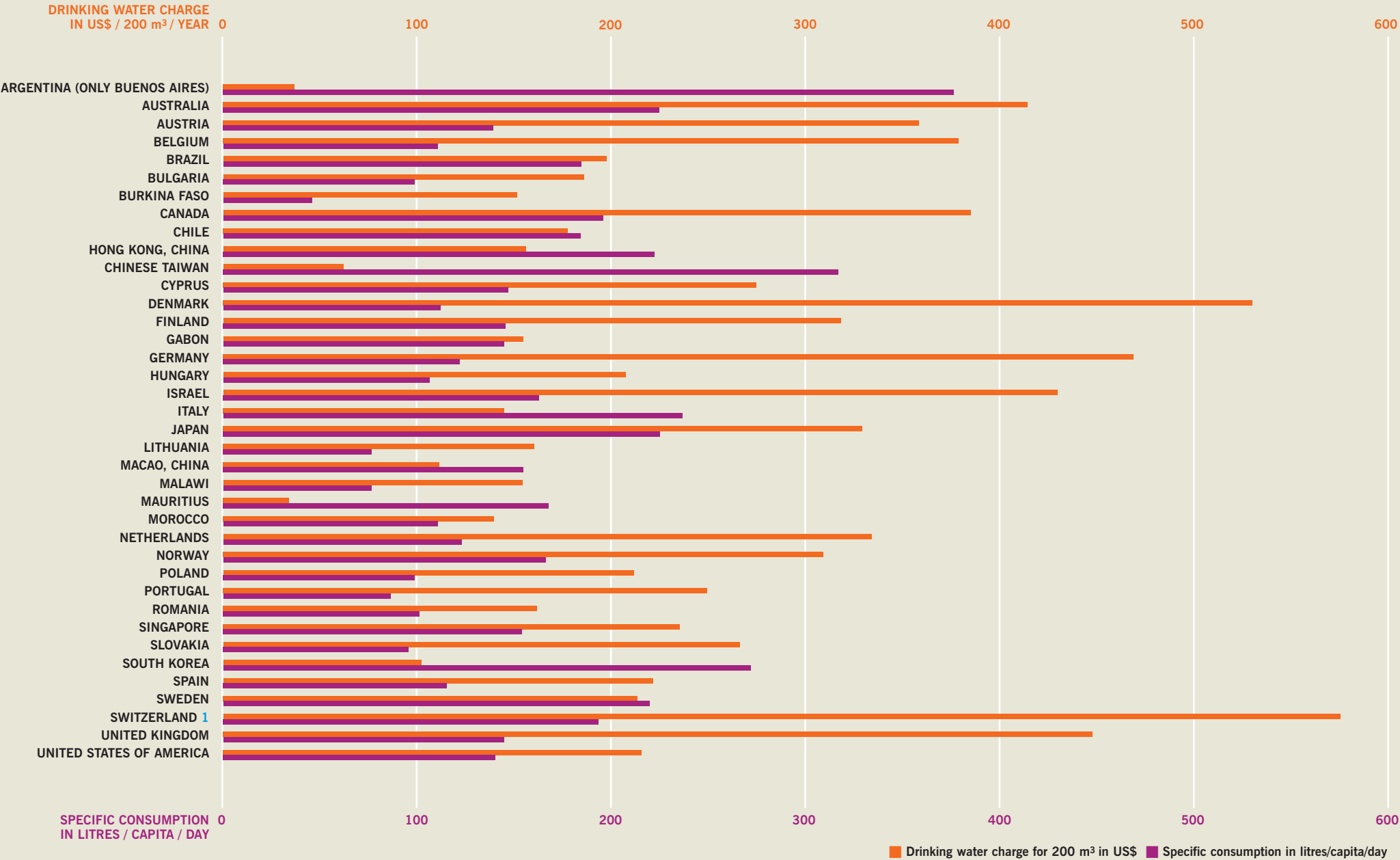
GDP - Drinking water charge in 2011* for 200 m³ in US\$



* Average volume of considered main cities in the country/region

1 Switzerland: average for one-family-houses is displayed in the graph, the charges for flats (in blocks) are quite a bit lower.

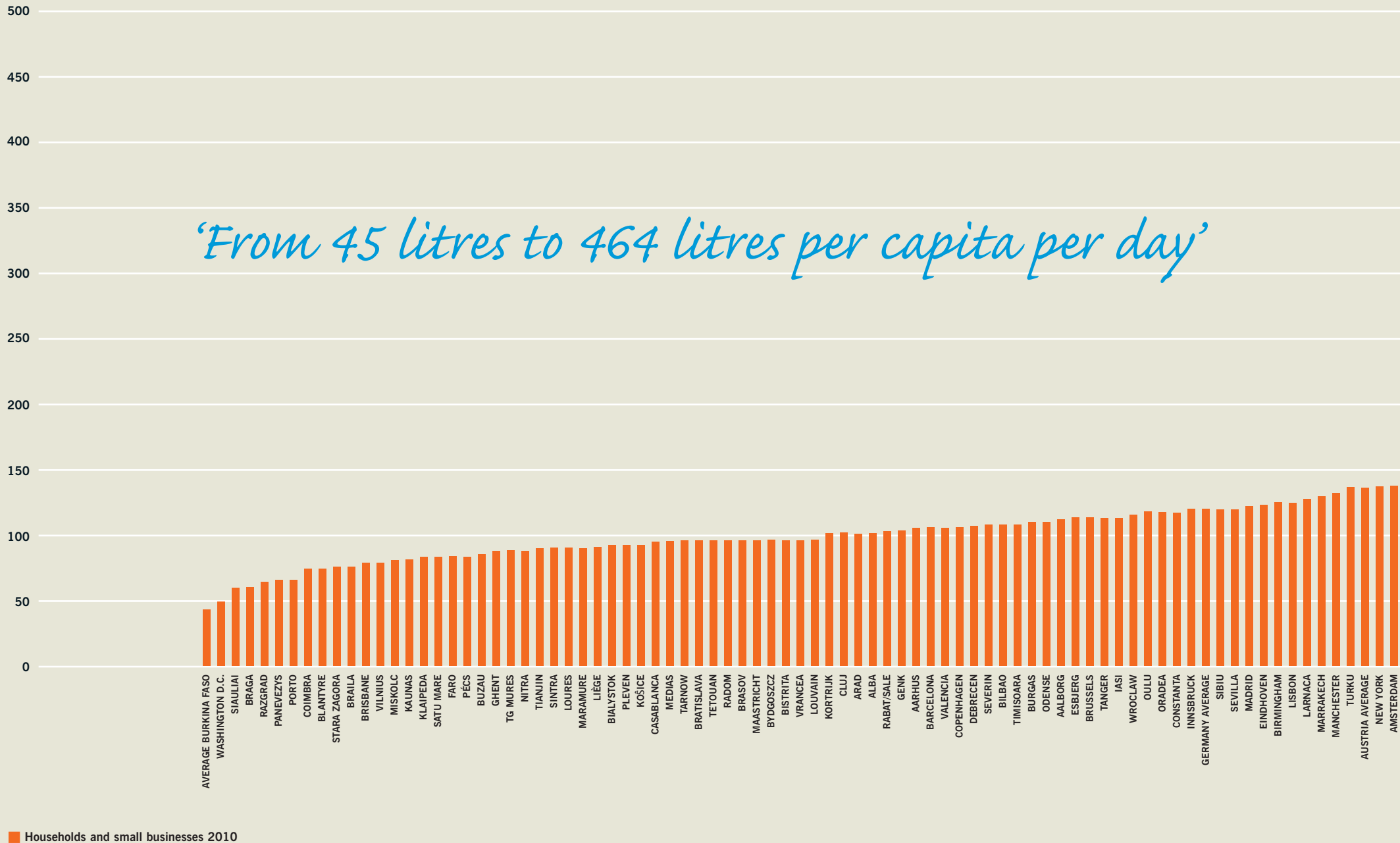
Drinking water charge - Specific water consumption *
charge in US\$ for 200 m³ and consumption in litres/capita/day



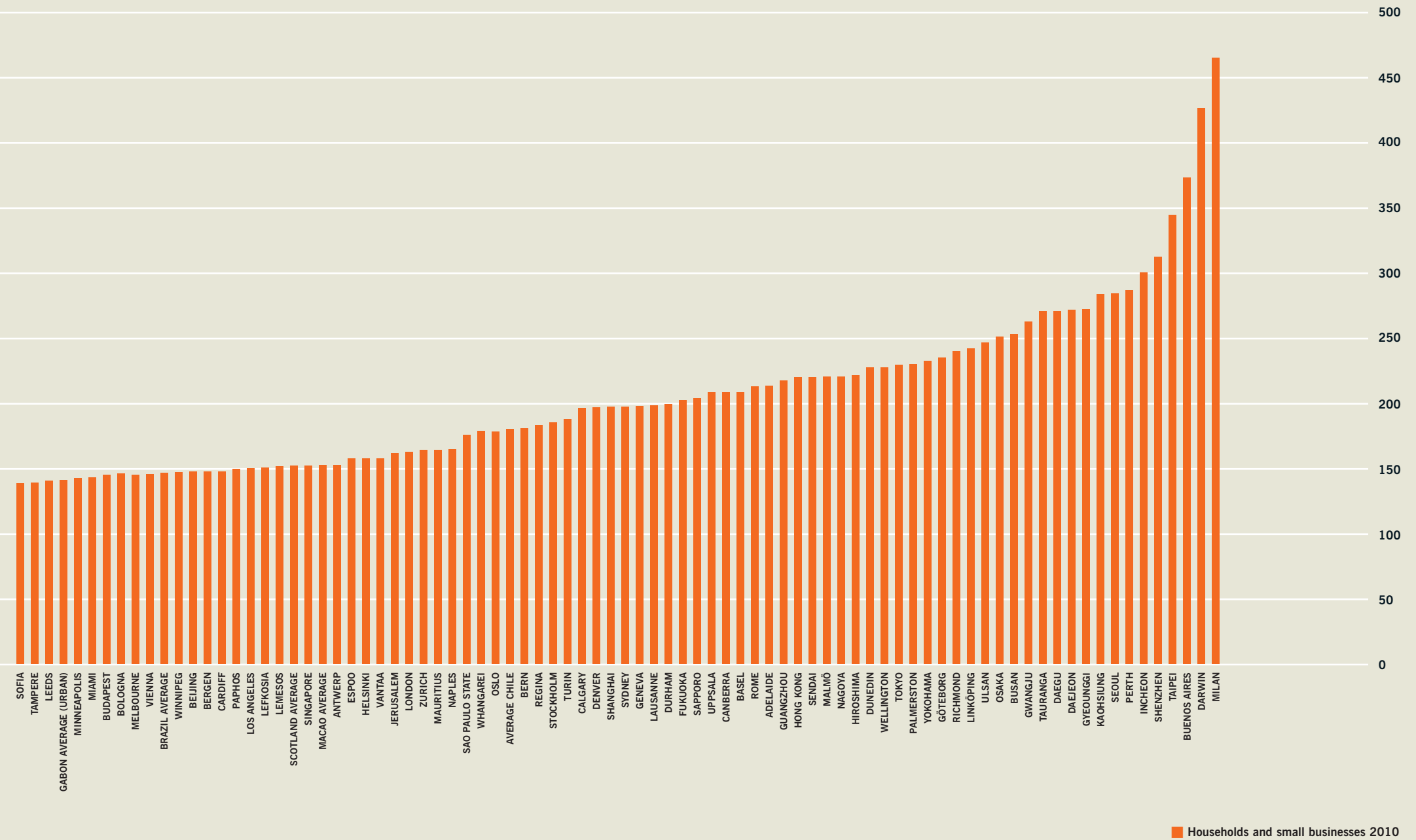
* Average volume of considered main cities in the country/region

1 Switzerland: average for one-family-houses is displayed in the graph, the charges for flats (in blocks) are quite a bit lower.

Specific water consumption for households and small businesses in 2010 in litres/capita/day



Specific water consumption for households and small businesses in 2010 in litres/capita/day



Total abstraction for water supply in m³/capita/year *

total abstraction/population X supply rate



* Annual volume of water abstraction from any source with the purpose of public water supply.

Total water delivered for households and small businesses in m³/capita/year *
total delivery for HH/population X supply rate



* Total water delivered: annual volume of water consumption by households for domestic consumption. This also includes mixed/commercial properties and multiple household properties, e.g. blocks or flats with an annual volume below 10 000 m³.

Comparison of annual water cycle charges in 2011

related to a consumption of 200 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | ACTUAL CHARGES | | | | | | | | | | AVERAGE CHARGES | | | | | | | | WATER RATE DESIGN FOR DOMESTIC USE | | | | | | | | |
|------------------|-----------------------------|------------------------|--------------|-----------------|------------------------------|-----------------------------|-----------------|---------------------------|---------------|-------------------|---|-----------------|-----------------|------------------------------|-----------------------------|-----------------|---------------------------|---------------|-------------------|---|----------------------|---------------|-------------------|-------------------|---------------------------|---------------------------|-------|---|
| | | GDP PER CAPITA IN US\$ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREAT-MENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREAT-MENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FLAT RATE UN-METERED | UNI-FORM RATE | DE-CREASING BLOCK | IN-CREASING BLOCK | FIXED CHARGES FOR SERVICE | UNIQUE TARIFF SEWAGE & WW | OTHER | |
| ARGENTINA | Buenos Aires | 17,400 | 37.04 | 0.00 | 0.00 | 37.04 | 0.00 | 0.00 | 0.00 | 8.25 | 45.29 | 37.04 | 0.00 | 0.00 | 37.04 | 0.00 | 0.00 | 0.00 | 8.25 | 45.29 | X | X | | | X | | | |
| ARMENIA | Yerevan | 5,400 | 0.00 | 66.73 | 0.00 | 66.73 | 9.07 | 5.03 | 0.00 | 16.17 | 97.00 | 0.00 | 56.94 | 0.00 | 56.94 | 9.97 | 1.26 | 0.00 | 13.63 | 81.81 | X | X | | | | | | |
| | Shirak | | 0.00 | 52.67 | 0.00 | 52.67 | 9.33 | 0.00 | 0.00 | 12.40 | 74.39 | | | | | | | | | | X | X | | | | | | |
| | Lori | | 0.00 | 52.78 | 0.00 | 52.78 | 12.37 | 0.00 | 0.00 | 13.03 | 78.18 | | | | | | | | | | X | X | | | | | | |
| AUSTRALIA | other cities | | 0.00 | 55.60 | 0.00 | 55.60 | 9.12 | 0.00 | 0.00 | 12.94 | 77.66 | | | | | | | | | | X | X | | | | | | |
| | Brisbane | 40,800 | 158.47 | 375.67 | 0.00 | 534.14 | 426.06 | 0.00 | 0.00 | 0.00 | 960.20 | 116.39 | 295.77 | 0.00 | 375.19 | 410.21 | 0.00 | 0.00 | 0.00 | 785.41 | | | | X | | | X | |
| | Adelaide | | 140.47 | 308.29 | 0.00 | 448.76 | 453.17 | 0.00 | 0.00 | 0.00 | 901.93 | | | | | | | | | | | | | X | | | X | |
| | Melbourne | | 102.89 | 256.23 | 0.00 | 359.12 | 405.99 | 0.00 | 0.00 | 0.00 | 765.11 | | | | | | | | | | | | | X | | | X | |
| | Perth | | 204.58 | 156.49 | 0.00 | 361.07 | 553.66 | 0.00 | 0.00 | 0.00 | 914.73 | | | | | | | | | | | | | X | | | X | |
| | Sydney | | 92.86 | 392.59 | 0.00 | 485.45 | 511.54 | 0.00 | 0.00 | 0.00 | 996.99 | | | | | | | | | | | X | | | | | X | |
| | Canberra | | 91.42 | 398.13 | 0.00 | 489.54 | 494.34 | 0.00 | 0.00 | 0.00 | 983.88 | | | | | | | | | | | | | X | | | X | |
| AUSTRIA | Darwin | | 140.47 | 182.99 | 0.00 | 323.46 | 436.96 | 0.00 | 0.00 | 0.00 | 760.42 | | | | | | | | | | X | | | | | | X | |
| | Country average | 41,700 | 33.45 | 299.88 | 0.00 | 333.33 | 0.00 | 481.70 | 0.00 | 82.44 | 897.47 | 33.45 | 299.88 | 0.00 | 333.33 | 0.00 | 481.70 | 0.00 | 82.44 | 897.47 | | | | | | | X | |
| | Graz | | 73.09 | 391.36 | 0.00 | 464.45 | 0.00 | 246.22 | 0.00 | 71.07 | 781.73 | 35.68 | 320.24 | 2.02 | 357.95 | 0.00 | 396.68 | 0.00 | 75.46 | 830.09 | | | | | | | X | |
| | Innsbruck | | 22.70 | 339.52 | 0.00 | 362.23 | 0.00 | 493.73 | 0.00 | 85.59 | 941.56 | | | | | | | | | | | | | | | | X | |
| | Linz | | 31.75 | 225.48 | 10.12 | 267.36 | 0.00 | 256.50 | 0.00 | 52.38 | 576.23 | | | | | | | | | | | | | | | | X | |
| BELGIUM | Salzburg | | 30.32 | 339.01 | 0.00 | 369.33 | 0.00 | 567.60 | 0.00 | 93.69 | 1,030.62 | | | | | | | | | | | | | | | | X | |
| | Vienna | | 20.54 | 305.83 | 0.00 | 326.37 | 0.00 | 419.35 | 0.00 | 74.57 | 820.29 | | | | | | | | | | | | | | | | X | |
| | Louvain | 37,600 | 58.82 | 335.64 | 0.00 | 394.46 | 232.43 | 325.40 | 0.00 | 57.14 | 1,009.42 | 58.82 | 319.31 | 0.00 | 378.13 | 232.43 | 325.40 | 0.00 | 56.16 | 992.12 | | | | X | X | | | |
| | Kortrijk | | 58.82 | 355.59 | 0.00 | 414.41 | 232.43 | 325.40 | 0.00 | 58.34 | 1,030.58 | | | | | | | | | | | | | X | X | | | |
| BRAZIL | Genk | | 58.82 | 266.69 | 0.00 | 325.51 | 232.43 | 325.40 | 0.00 | 53.00 | 936.35 | | | | | | | | | | | | | X | X | | | |
| | SABESP - social | 11,600 | 71.24 | 0.00 | 0.00 | 71.24 | 71.24 | 0.00 | 0.00 | 0.00 | 142.47 | 197.96 | 0.00 | 0.00 | 197.96 | 197.96 | 0.00 | 0.00 | 0.00 | 395.92 | | | | | | | | |
| | SABESP - favela | | 44.52 | 0.00 | 0.00 | 44.52 | 44.52 | 0.00 | 0.00 | 0.00 | 89.03 | | | | | | | | | | | | | | | | | |
| | SABESP - residencial normal | | 199.17 | 0.00 | 0.00 | 199.17 | 199.17 | 0.00 | 0.00 | 0.00 | 398.34 | | | | | | | | | | | | | X | | | | 2 |
| | SABESP - social assistance | | 225.22 | 0.00 | 0.00 | 225.22 | 225.22 | 0.00 | 0.00 | 0.00 | 450.45 | | | | | | | | | | | | | | | | | |
| BULGARIA | SABESP - commercial | | 449.66 | 0.00 | 0.00 | 449.66 | 449.66 | 0.00 | 0.00 | 0.00 | 899.31 | | | | | | | | | | | | | | | | | |
| | Sofia | 13,500 | 0.00 | 124.57 | 0.00 | 124.57 | 0.00 | 37.11 | 23.85 | 37.11 | 222.64 | 0.00 | 185.54 | 0.00 | 185.54 | 0.00 | 36.31 | 18.29 | 48.03 | 288.16 | X | X | | | | | X | |
| | Burgas | | 0.00 | 136.50 | 0.00 | 136.50 | 0.00 | 67.59 | 26.51 | 46.12 | 276.71 | | | | | | | | | | | | | | | | X | |
| | Pleven | | 0.00 | 177.58 | 0.00 | 177.58 | 0.00 | 18.55 | 13.25 | 41.88 | 251.27 | | | | | | | | | | | | | | | | X | |
| | Razgrad | | 0.00 | 262.40 | 0.00 | 262.40 | 0.00 | 19.88 | 14.58 | 59.37 | 356.23 | | | | | | | | | | | | | | | | X | |
| BURKINA FASO | Stara Zagora | | 0.00 | 226.62 | 0.00 | 226.62 | 0.00 | 38.43 | 13.25 | 55.66 | 333.97 | | | | | | | | | | | | | | | | X | |
| | Country average | 1,500 | 23.71 | 127.13 | 0.00 | 150.83 | 23.71 | 0.00 | 0.00 | 31.42 | 205.96 | 23.71 | 127.13 | 0.00 | 150.83 | 23.71 | 0.00 | 0.00 | 31.42 | 205.96 | | | | X | X | | | |
| | Canada | 40,300 | 149.48 | 271.64 | 0.00 | 421.12 | 0.00 | 265.80 | 0.00 | 0.00 | 686.92 | 199.76 | 184.52 | 0.00 | 384.28 | 0.00 | 323.44 | 0.00 | 0.00 | 707.72 | | X | | | | X | X | |
| | Winnipeg | | 53.05 | 263.29 | 0.00 | 316.34 | 0.00 | 387.07 | 0.00 | 0.00 | 703.41 | | | | | | | | | | | | | X | | | X | |
| CANADA | Regina | | 186.50 | 243.64 | 0.00 | 430.14 | 0.00 | 361.57 | 0.00 | 0.00 | 791.71 | | | | | | | | | | | | | X | | | X | |
| | Richmond | | 464.40 | 0.00 | 0.00 | 464.40 | 0.00 | 300.62 | 0.00 | 0.00 | 765.02 | | | | | | | | | | | X | | | | X | X | |
| | Durham | | 145.36 | 144.02 | 0.00 | 289.38 | 0.00 | 302.15 | 0.00 | 0.00 | 591.53 | | | | | | | | | | | | | X | | | X | |
| | Country average | | 15.07 | 135.91 | 0.00 | 150.98 | 165.39 | 0.00 | 0.00 | 60.11 | 376.48 | | | | | | | | | | | | | X | | | X | 3 |
| CHILE | Santiago de Chile | 16,100 | 13.59 | 115.42 | 0.00 | 129.01 | 90.26 | 52.51 | 0.00 | 51.64 | 323.42 | 16.86 | 159.99 | 0.00 | 176.85 | 141.44 | 17.50 | 0.00 | 63.80 | 399.59 | | X | | | | X | | 3 |
| | Valparaiso | | 21.92 | 228.63 | 0.00 | 250.55 | 168.67 | 0.00 | 0.00 | 79.65 | 498.87 | | | | | | | | | | | | | X | | X | | 3 |
| | Concepcion | | 15.07 | 135.91 | 0.00 | 150.98 | 165.39 | 0.00 | 0.00 | 60.11 | 376.48 | | | | | | | | | | | | | X | | X | | 3 |
| HONG KONG, CHINA | Hong Kong | 49,300 | 0.00 | 114.63 | 0.00 | 114.63 | 0.00 | 40.43 | 0.00 | 155.06 | 0.00 | 114.63 | 0.00 | 0.00 | 0.00 | 40.43 | 0.00 | 0.00 | 155.06 | | X | | | | | | | |
| CHINESE TAIWAN | Taipei | 37,900 | 25.70 | 31.50 | 0.00 | 57.21 | 33.08 | 0.00 | 1.32 | 2.86 | 94.46 | 19.60 | 41.56 | 0.00 | 61.16 | 26.46 | 0.00 | 15.71 | 3.06 | 106.38 | | | | X | X | | | |
| | Kaohsiung | | 13.49 | 51.61 | 0.00 | 65.11 | 19.85 | 0.00 | 30.10 | 3.26 | 118.30 | | | | | | | | | | | | | X | X | | | |

continued...

Source: For exchange rates to US\$ as per 31 December 2011: <http://nl.exchange-rates.org/historicalrates/E/USD/31-12-2011>. For Gross Domestic Product (GDP): World Fact Book <https://www.cia.gov/library/publications/the-world-factbook/>

1 Switzerland: average for one-family-houses is displayed in the table, the charges for flats (in blocks) are quite a bit lower.

2 Example in the world of rates discriminated both by client category (including several households categories) and by increasing blocks.

3 16% of clients receive 7% of operational revenue as direct subsidies from the State budget.

4 Volumetric charge (based on water consumption).

5 All domestic usage, including a domestic allowance for non-domestic customers, is funded/subsidized via a block grant from the government.

6 Sewerage rates are based on the capital value of the property, set by the Valuer. General for each financial year.

7 Sewerage fee is designed by the multiply the factors to drinking water fee.

8 For all areas customers will be on either unmetered or metered charges. Both have a fixed charge and a variable charge. The variable charge for unmetered bills is based on the rateable value of the property. The variable charge for metered bills is based on the amount of water used. Metered customers cannot choose to move to an unmetered charge but unmetered customers can move to a metered charge. If an unmetered customer moved to a metered charge they can choose to return to an unmetered charge within 12 months.

9 With the exception of NY, each city has separate rates. In New York, the charge for sewer is 1,59X the water charge.

10 L.A. has a seasonal rate (higher rates in the summer).

Comparison of annual water cycle charges in 2011 related to a consumption of 200 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | GDP PER CAPITA IN US\$ | ACTUAL CHARGES | | | | | | | | AVERAGE CHARGES | | | | | | | | WATER RATE DESIGN FOR DOMESTIC USE | | | | | | | | | | |
|----------------|-----------------|------------------------|----------------|-----------------|------------------------------|-----------------------------|-----------------|--------------------------|---------------|-------------------|---|--------------|-----------------|------------------------------|-----------------------------|-----------------|--------------------------|---------------|------------------------------------|---|----------------------|---------------|-------------------|-------------------|---------------------------|---------------------------|-------|---|---|
| | | | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FLAT RATE UN-METERED | UNI-FORM RATE | DE-CREASING BLOCK | IN-CREASING BLOCK | FIXED CHARGES FOR SERVICE | UNIQUE TARIFF SEWAGE & WW | OTHER | | |
| CYPRUS | Larnaca | 29,100 | 85.53 | 264.62 | 0.00 | 350.15 | 111.45 | 233.26 | 58.32 | 15.95 | 769.12 | 67.43 | 205.20 | 0.00 | 272.64 | 117.93 | 247.25 | 46.06 | 13.24 | 697.11 | | | | X | X | X | | | |
| | Lefkosia | | 44.24 | 252.18 | 0.00 | 296.42 | 129.59 | 278.62 | 0.00 | 14.82 | 719.45 | | | | | | | | | | | | X | X | X | | | | |
| | Lemesos | | 77.75 | 154.47 | 0.00 | 232.22 | 119.22 | 281.10 | 54.63 | 11.61 | 698.80 | | | | | | | | | | | | X | X | X | | | | |
| DENMARK | Paphos | | 62.20 | 149.55 | 0.00 | 211.75 | 111.45 | 196.00 | 71.27 | 10.59 | 601.06 | | | | | | | | | | | | X | X | X | | | | |
| | Aalborg | 40,200 | 174.47 | 158.77 | 188.43 | 521.68 | 8.72 | 673.54 | 0.00 | 301.00 | 1,504.95 | 107.77 | 232.05 | 188.43 | 528.26 | 9.49 | 651.39 | 0.00 | 297.30 | 1,486.43 | | X | | X | X | | | | |
| | Aarhus | | 76.16 | 279.16 | 188.43 | 543.75 | 8.72 | 732.16 | 0.00 | 321.17 | 1,605.81 | | | | | | | | | | | | X | X | X | | | | |
| | Copenhagen | | 62.81 | 325.22 | 188.43 | 576.46 | 10.47 | 590.84 | 0.00 | 294.44 | 1,472.21 | | | | | | | | | | | | X | X | X | | | | |
| | Esbjerg | | 141.67 | 182.50 | 188.43 | 512.61 | 8.03 | 600.12 | 0.00 | 280.21 | 1,400.96 | | | | | | | | | | | | X | X | X | | | | |
| FINLAND | Odense | | 83.75 | 214.60 | 188.43 | 486.78 | 11.52 | 660.28 | 0.00 | 289.66 | 1,448.24 | | | | | | | | | | | | X | X | X | | | | |
| | Espoo | 38,300 | 28.07 | 278.14 | 0.00 | 306.21 | 0.00 | 335.04 | 42.10 | 157.17 | 840.51 | 51.63 | 265.85 | 0.00 | 317.48 | 0.00 | 347.68 | 51.24 | 164.77 | 881.17 | | | | X | X | X | | | |
| | Helsinki | | 42.78 | 214.92 | 0.00 | 257.70 | 0.00 | 303.43 | 64.17 | 143.82 | 769.12 | | | | | | | | | | | | X | X | X | | | | |
| | Oulu | | 50.98 | 282.36 | 0.00 | 333.34 | 0.00 | 385.61 | 0.00 | 165.36 | 884.30 | | | | | | | | | | | | X | X | X | | | | |
| | Tampere | | 68.27 | 217.04 | 0.00 | 285.30 | 0.00 | 337.14 | 68.27 | 158.86 | 849.57 | | | | | | | | | | | | X | X | X | | | | |
| GABON | Turku | | 93.30 | 328.72 | 0.00 | 422.02 | 0.00 | 379.28 | 93.30 | 205.76 | 1,100.37 | | | | | | | | | | | | | | | | | | |
| | Vantaa | | 26.40 | 273.93 | 0.00 | 300.32 | 0.00 | 345.58 | 39.60 | 157.66 | 843.16 | | | | | | | | | | | | X | X | X | | | | |
| GABON | Urban average | 16,000 | 6.71 | 147.23 | 0.00 | 153.94 | 0.00 | 0.00 | 0.00 | 15.39 | 169.33 | 6.71 | 147.23 | 0.00 | 153.94 | 0.00 | 0.00 | 0.00 | 15.39 | 169.33 | | | | X | | | | | |
| GERMANY | Country average | 37,900 | 54.17 | 413.39 | 0.00 | 467.56 | 32.66 | 655.72 | 0.00 | 0.00 | 1,155.93 | 54.17 | 413.39 | 0.00 | 467.56 | 32.66 | 655.72 | 0.00 | 0.00 | 1,155.93 | | | | | X | | | | |
| HUNGARY | Budapest | 19,600 | 9.51 | 154.07 | 0.00 | 163.57 | 267.72 | 0.00 | 0.00 | 107.82 | 539.12 | 2.38 | 203.63 | 0.00 | 206.01 | 191.47 | 0.00 | 0.00 | 99.37 | 496.85 | | | | | X | | | | |
| | Debrecen | | 0.00 | 169.54 | 0.00 | 169.54 | 134.97 | 0.00 | 0.00 | 76.13 | 380.64 | | | | | | | | | | | | | | | | | | |
| | Miskolc | | 0.00 | 211.10 | 0.00 | 211.10 | 162.38 | 0.00 | 0.00 | 93.37 | 466.85 | | | | | | | | | | | | | | | | | | |
| IRAN | Pécs | | 0.00 | 279.82 | 0.00 | 279.82 | 200.81 | 0.00 | 0.00 | 120.16 | 600.79 | | | | | | | | | | | | | | | | | | |
| | Country average | 12,200 | n/a | n/a | n/a | 44.83 | n/a | n/a | n/a | n/a | 44.83 | n/a | n/a | n/a | 44.83 | n/a | n/a | n/a | n/a | 44.83 | | | | | | | | | |
| ISRAEL | Jerusalem | 31,000 | 0.00 | 427.65 | 0.00 | 427.65 | 0.00 | 0.00 | 0.00 | 68.35 | 496.00 | 0.00 | 427.65 | 0.00 | 427.65 | 0.00 | 0.00 | 0.00 | 68.35 | 496.00 | | | | | | | | | |
| ITALY | Bologna | 30,100 | 16.69 | 202.44 | 0.00 | 219.14 | 40.28 | 108.52 | 0.00 | 36.79 | 404.72 | 14.14 | 129.29 | 0.00 | 143.43 | 36.22 | 98.96 | 0.00 | 27.85 | 306.46 | | | | X | X | | | | |
| | Milan | | 0.00 | 39.33 | 0.00 | 39.33 | 27.99 | 71.79 | 0.00 | 13.92 | 153.03 | | | | | | | | | | | | | X | X | | | | |
| | Naples | | 10.85 | 164.47 | 0.00 | 175.32 | 26.55 | 76.12 | 0.00 | 27.80 | 305.79 | | | | | | | | | | | | | X | X | | | | |
| | Rome | | 27.60 | 99.54 | 0.00 | 127.14 | 38.51 | 111.06 | 0.00 | 27.60 | 304.31 | | | | | | | | | | | | | X | X | | | | |
| | Turin | | 15.55 | 140.66 | 0.00 | 156.21 | 47.77 | 127.33 | 0.00 | 33.14 | 364.44 | | | | | | | | | | | | | X | X | | | | |
| JAPAN | Nagoya | 34,300 | 97.31 | 150.10 | 0.00 | 247.41 | 188.09 | 0.00 | 0.00 | 21.77 | 457.27 | 151.13 | 177.00 | 0.00 | 328.13 | 212.33 | 0.00 | 0.00 | 26.91 | 567.37 | | X | | X | | | | | |
| | Osaka | | 147.92 | 100.69 | 0.00 | 248.61 | 148.96 | 0.00 | 0.00 | 19.67 | 417.23 | | | | | | | | | | | | X | X | | | | | |
| | Hiroshima | | 126.12 | 133.90 | 0.00 | 260.02 | 235.89 | 0.00 | 0.00 | 24.65 | 520.57 | | | | | | | | | | | | X | X | | | | | |
| | Fukuoka | | 132.35 | 171.27 | 0.00 | 303.62 | 280.58 | 0.00 | 0.00 | 29.12 | 613.31 | | | | | | | | | | | | X | X | | | | | |
| | Sapporo | | 205.53 | 217.98 | 0.00 | 423.51 | 166.45 | 0.00 | 0.00 | 29.43 | 619.39 | | | | | | | | | | | | X | X | | | | | |
| | Sendai | | 194.63 | 314.68 | 0.00 | 509.30 | 216.27 | 0.00 | 0.00 | 36.12 | 761.70 | | | | | | | | | | | | X | X | | | | | |
| | Tokyo | | 182.17 | 149.99 | 0.00 | 332.17 | 235.63 | 0.00 | 0.00 | 28.23 | 596.03 | | | | | | | | | | | | X | X | | | | | |
| LITHUANIA | Yokohama | | 123.01 | 177.40 | 0.00 | 300.40 | 226.81 | 0.00 | 0.00 | 26.29 | 553.50 | | | | | | | | | | | X | X | | | | | | |
| | Kaunas | 18,700 | 14.64 | 136.61 | 0.00 | 151.25 | 149.37 | 0.00 | 0.00 | 63.13 | 363.75 | 14.29 | 145.17 | 0.00 | 159.46 | 181.20 | 0.00 | 0.00 | 71.54 | 412.20 | | | | | X | | | 4 | |
| | Klaipeda | | 17.65 | 123.85 | 0.00 | 141.51 | 175.64 | 0.00 | 0.00 | 66.60 | 383.75 | | | | | | | | | | | | | | X | | | | 4 |
| | Panevezys | | 11.57 | 125.35 | 0.00 | 136.93 | 238.70 | 0.00 | 0.00 | 78.88 | 454.51 | | | | | | | | | | | | | | X | | | | 4 |
| MACAO, CHINA | Siauliai | | 13.02 | 213.93 | 0.00 | 226.94 | 197.41 | 0.00 | 0.00 | 89.11 | 513.47 | | | | | | | | | | | | | | X | | | | 4 |
| | Vilnius | | 14.59 | 126.10 | 0.00 | 140.70 | 144.87 | 0.00 | 0.00 | 59.97 | 345.53 | | | | | | | | | | | | | | X | | | | 4 |
| MACAO, CHINA | Country average | 33,000 | 0.00 | 110.81 | 0.00 | 110.81 | 0.00 | 0.00 | 0.00 | 0.00 | 110.81 | 0.00 | 110.81 | 0.00 | 110.81 | 0.00 | 0.00 | 0.00 | 0.00 | 110.81 | | | | X | | | | | |
| MALAWI | Blantyre | 900 | 2.22 | 151.38 | 0.00 | 153.59 | 0.00 | 0.00 | 0.00 | 0.00 | 153.59 | 2.22 | 151.38 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 153.59 | | | | X | X | | | | |
| MAURITIUS | Mauritius | 15,000 | 18.35 | 16.11 | 0.00 | 34.45 | 56.27 | 39.92 | 0.00 | 0.00 | 130.64 | 18.35 | 16.11 | 0.00 | 34.45 | 56.27 | 39.92 | 0.00 | 0.00 | 130.64 | | | | | | | | | |

continued...

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10 L.A. has a seasonal rate (higher rates in the summer).

Comparison of annual water cycle charges in 2011

related to a consumption of 200 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | GDP PER CAPITA IN US\$ | ACTUAL CHARGES | | | | | | | | AVERAGE CHARGES | | | | | | | | WATER RATE DESIGN FOR DOMESTIC USE | | | | | | | | | |
|-----------------------|-----------------|------------------------|----------------|-----------------|------------------------------|-----------------------------|-----------------|--------------------------|---------------|-------------------|---|--------------|-----------------|------------------------------|-----------------------------|-----------------|--------------------------|---------------|------------------------------------|---|----------------------|---------------|-------------------|-------------------|---------------------------|---------------------------|-------|---|
| | | | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FLAT RATE UN-METERED | UNI-FORM RATE | DE-CREASING BLOCK | IN-CREASING BLOCK | FIXED CHARGES FOR SERVICE | UNIQUE TARIFF SEWAGE & WW | OTHER | |
| MOROCCO | Casablanca | 5,100 | 9.79 | 158.69 | 0.00 | 168.48 | 40.01 | 0.00 | 0.00 | 14.59 | 223.09 | 9.38 | 129.00 | 0.00 | 138.38 | 34.62 | 0.00 | 0.00 | 12.11 | 185.12 | | | | X | | | | |
| | Rabat/Sale | | 11.95 | 130.14 | 0.00 | 142.10 | 38.31 | 0.00 | 0.00 | 12.63 | 193.03 | | | | | | | | | | | | X | | | | | |
| | Tanger | | 8.39 | 121.77 | 0.00 | 130.16 | 26.03 | 0.00 | 0.00 | 10.93 | 167.12 | | | | | | | | | | | | X | | | | | |
| | Tetouan | | 8.39 | 125.16 | 0.00 | 133.54 | 27.16 | 0.00 | 0.00 | 11.25 | 171.95 | | | | | | | | | | | | X | | | | | |
| | Marrakech | | 8.39 | 109.26 | 0.00 | 117.64 | 41.61 | 0.00 | 0.00 | 11.15 | 170.40 | | | | | | | | | | | | X | | | | | |
| NETHERLANDS | Amsterdam | 42,300 | 54.62 | 326.56 | 0.00 | 381.19 | 191.79 | 193.09 | 40.95 | 25.33 | 832.35 | 65.30 | 260.45 | 6.05 | 331.79 | 210.97 | 193.09 | 40.95 | 22.37 | 799.17 | X | X | | | X | X | | |
| | Rotterdam | | 77.44 | 246.48 | 9.37 | 333.29 | 237.15 | 193.09 | 40.95 | 22.46 | 826.93 | | | | | | | | | | X | X | | | X | X | | |
| | Den Haag | | 75.27 | 282.50 | 20.86 | 378.63 | 163.28 | 193.09 | 40.95 | 25.18 | 801.13 | | | | | | | | | | | X | | | X | X | | |
| | Utrecht | | 32.40 | 273.43 | 0.00 | 305.83 | 281.21 | 193.09 | 40.95 | 20.81 | 841.89 | | | | | | | | | | | | X | | | X | X | |
| | Eindhoven | | 86.77 | 173.26 | 0.00 | 260.03 | 181.42 | 193.09 | 40.95 | 18.06 | 693.56 | | | | | | | | | | | X | | | X | X | | |
| NEW ZEALAND | Wellington | 27,900 | 97.23 | 0.00 | 171.13 | 268.36 | 0.00 | 217.80 | 0.00 | 0.00 | 486.16 | 118.23 | 98.01 | 34.23 | 250.47 | 0.00 | 238.80 | 0.00 | 0.00 | 489.27 | | | | | X | | | |
| | Dunedin | | 280.03 | 0.00 | 0.00 | 280.03 | 0.00 | 241.13 | 0.00 | 0.00 | 521.16 | | | | | | | | | | | | | | | | | |
| | Palmerston | | 175.02 | 0.00 | 0.00 | 175.02 | 0.00 | 97.23 | 0.00 | 0.00 | 272.25 | | | | | | | | | | | | | | | | | |
| | Tauranga | | 19.45 | 217.80 | 0.00 | 237.25 | 0.00 | 217.80 | 0.00 | 0.00 | 455.04 | | | | | | | | | | | | | | | | | |
| | Whangarei | | 19.45 | 272.25 | 0.00 | 291.69 | 0.00 | 420.04 | 0.00 | 0.00 | 711.74 | | | | | | | | | | | | | | | | | |
| NORTHERN IRELAND (UK) | Country average | 39,500 | 145.92 | 322.89 | 0.00 | 468.81 | 0.00 | 697.01 | 0.00 | 93.14 | 1,258.96 | 145.92 | 322.89 | 0.00 | 468.81 | 0.00 | 697.01 | 0.00 | 93.14 | 1,258.96 | | | | | | | | 5 |
| NORWAY | Bergen | 53,300 | 120.45 | 231.86 | 0.00 | 352.30 | 385.26 | 0.00 | 0.00 | 184.35 | 921.91 | 78.21 | 230.19 | 0.00 | 308.39 | 364.27 | 0.00 | 0.00 | 168.14 | 840.80 | X | X | | | X | X | | |
| | Oslo | | 35.97 | 228.51 | 0.00 | 264.48 | 343.27 | 0.00 | 0.00 | 151.94 | 759.69 | | | | | | | | | | X | X | | | X | X | | |
| POLAND | Bydgoszcz | 20,100 | 0.00 | 332.01 | 0.00 | 332.01 | 0.00 | 300.03 | 0.00 | 0.00 | 632.03 | 0.00 | 210.14 | 0.00 | 210.14 | 0.00 | 245.37 | 0.00 | 0.00 | 455.51 | | | X | | | | | |
| | Wroclaw | | 0.00 | 220.95 | 0.00 | 220.95 | 0.00 | 229.67 | 0.00 | 0.00 | 450.62 | | | | | | | | | | | | X | | | | | |
| | Radom | | 0.00 | 161.64 | 0.00 | 161.64 | 0.00 | 228.51 | 0.00 | 0.00 | 390.15 | | | | | | | | | | | | X | | | | | |
| | Bialystok | | 0.00 | 187.81 | 0.00 | 187.81 | 0.00 | 184.90 | 0.00 | 0.00 | 372.71 | | | | | | | | | | | | X | | | | | |
| | Tarnow | | 0.00 | 148.27 | 0.00 | 148.27 | 0.00 | 283.75 | 0.00 | 0.00 | 432.02 | | | | | | | | | | | | X | | | | | |
| PORTUGAL | Lisbon | 23,200 | 62.67 | 122.81 | 13.68 | 199.17 | 0.00 | 70.65 | 5.44 | 11.13 | 286.39 | 50.68 | 195.95 | 1.95 | 248.59 | 0.00 | 162.33 | 11.81 | 19.39 | 442.12 | | | | | X | X | | |
| | Sintra | | 63.29 | 217.64 | 0.00 | 280.94 | 0.00 | 250.31 | 26.57 | 18.45 | 576.27 | | | | | | | | | | | | | X | X | | | |
| | Porto | | 51.99 | 199.24 | 0.00 | 251.23 | 0.00 | 78.43 | 17.05 | 20.80 | 367.51 | | | | | | | | | | | | | X | X | | | |
| | Loures | | 38.88 | 328.69 | 0.00 | 367.57 | 0.00 | 303.60 | 10.11 | 22.06 | 703.33 | | | | | | | | | | | | | X | X | | | |
| | Braga | | 42.61 | 150.70 | 0.00 | 193.31 | 0.00 | 127.10 | 6.79 | 17.04 | 344.24 | | | | | | | | | | | | | X | X | | | |
| | Coimbra | | 58.00 | 207.50 | 0.00 | 265.50 | 0.00 | 160.24 | 8.84 | 26.07 | 460.65 | | | | | | | | | | | | | X | X | | | |
| | Faro | | 37.32 | 145.06 | 0.00 | 182.38 | 0.00 | 145.94 | 7.90 | 20.18 | 356.41 | | | | | | | | | | | | | X | X | | | |
| ROMANIA | Cluj | 12,300 | 0.00 | 143.57 | 0.00 | 143.57 | 123.14 | 0.00 | 0.00 | 64.01 | 330.72 | 0.00 | 161.42 | 0.00 | 161.42 | 103.89 | 0.00 | 0.00 | 63.67 | 328.99 | X | X | | | | | X | |
| | Iasi | | 0.00 | 176.61 | 0.00 | 176.61 | 118.34 | 0.00 | 0.00 | 70.79 | 365.73 | | | | | | | | | | X | X | | | | | X | |
| | Oradea | | 0.00 | 166.40 | 0.00 | 166.40 | 69.08 | 0.00 | 0.00 | 56.51 | 291.99 | | | | | | | | | | X | X | | | | | X | |
| | Brasov | | 0.00 | 168.20 | 0.00 | 168.20 | 115.94 | 0.00 | 0.00 | 68.19 | 352.33 | | | | | | | | | | X | X | | | | | X | |
| | Timisoara | | 0.00 | 127.35 | 0.00 | 127.35 | 111.13 | 0.00 | 0.00 | 57.24 | 295.72 | | | | | | | | | | X | X | | | | | X | |
| | Braila | | 0.00 | 160.39 | 0.00 | 160.39 | 98.52 | 0.00 | 0.00 | 62.14 | 321.04 | | | | | | | | | | X | X | | | | | X | |
| | Sibiu | | 0.00 | 150.78 | 0.00 | 150.78 | 76.89 | 0.00 | 0.00 | 54.64 | 282.31 | | | | | | | | | | X | X | | | | | X | |
| | Constanta | | 0.00 | 180.21 | 0.00 | 180.21 | 160.39 | 0.00 | 0.00 | 81.74 | 422.34 | | | | | | | | | | X | X | | | | | X | |
| | Arad | | 0.00 | 159.19 | 0.00 | 159.19 | 159.19 | 0.00 | 0.00 | 76.41 | 394.78 | | | | | | | | | | X | X | | | | | X | |
| | Bistrita | | 0.00 | 152.58 | 0.00 | 152.58 | 82.30 | 0.00 | 0.00 | 56.37 | 291.25 | | | | | | | | | | X | X | | | | | X | |
| | Buzau | | 0.00 | 195.83 | 0.00 | 195.83 | 102.72 | 0.00 | 0.00 | 71.65 | 370.20 | | | | | | | | | | X | X | | | | | X | |
| | Tg Mures | | 0.00 | 160.39 | 0.00 | 160.39 | 142.97 | 0.00 | 0.00 | 72.81 | 376.16 | | | | | | | | | | X | X | | | | | X | |
| | Satu Mare | | 0.00 | 164.59 | 0.00 | 164.59 | 90.71 | 0.00 | 0.00 | 61.27 | 316.57 | | | | | | | | | | X | X | | | | | X | |
| | Vrancea | | 0.00 | 159.19 | 0.00 | 159.19 | 123.75 | 0.00 | 0.00 | 67.90 | 350.84 | | | | | | | | | | X | X | | | | | X | |
| | Alba | | 0.00 | 147.17 | 0.00 | 147.17 | 83.50 | 0.00 | 0.00 | 55.36 | 286.03 | | | | | | | | | | X | X | | | | | X | |

continued...

Source: For exchange rates to US\$ as per 31 December 2011: <http://nl.exchange-rates.org/historicalrates/E/USD/31-12-2011>. For Gross Domestic Product (GDP): World Fact Book <https://www.cia.gov/library/publications/the-world-factbook/>

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3 16% of clients receive 7% of operational revenue as direct subsidies from the State budget.

4 Volumetric charge (based on water consumption).

5 All domestic usage, including a domestic allowance for non-domestic customers, is funded/subsidized via a block grant from the government.

6 Sewerage rates are based on the capital value of the property, set by the Valuer. General for each financial year.

7 Sewerage fee is designed by the multiply the factors to drinking water fee.

8 For all areas customers will be on either unmetered or metered charges. Both have a fixed charge and a variable charge. The variable charge for unmetered bills is based on the rateable value of the property. The variable charge for metered bills is based on the amount of water used. Metered customers cannot choose to move to an unmetered charge but unmetered customers can move to a metered charge. If an unmetered customer moved to a metered charge they can choose to return to an unmetered charge within 12 months.

9 With the exception of NY, each city has separate rates. In New York, the charge for sewer is 1,59X the water charge.

10 L.A. has a seasonal rate (higher rates in the summer).

Comparison of annual water cycle charges in 2011 related to a consumption of 200 m³ in US\$

| COUNTRY/REGION | TOWN/CITY | GDP PER CAPITA IN US\$ | ACTUAL CHARGES | | | | | | | | | AVERAGE CHARGES | | | | | | | WATER RATE DESIGN FOR DOMESTIC USE | | | | | | | | | |
|--------------------------|--------------------|------------------------|----------------|-----------------|------------------------------|-----------------------------|-----------------|--------------------------|---------------|-------------------|---|-----------------|-----------------|------------------------------|-----------------------------|-----------------|--------------------------|---------------|------------------------------------|---|----------------------|---------------|-------------------|-------------------|---------------------------|---------------------------|-------|--|
| | | | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FIXED CHARGE | VARIABLE CHARGE | OTHER CHARGES DRINKING WATER | TOTAL CHARGE DRINKING WATER | SEWERAGE CHARGE | WASTE.W TREATMENT CHARGE | OTHER CHARGES | VAT & OTHER TAXES | TOTAL ANNUAL CHARGES 200 M ³ | FLAT RATE UN-METERED | UNI-FORM RATE | DE-CREASING BLOCK | IN-CREASING BLOCK | FIXED CHARGES FOR SERVICE | UNIQUE TARIFF SEWAGE & WW | OTHER | |
| ROMANIA (continued) | Maramure | | 0.00 | 150.78 | 0.00 | 150.78 | 82.30 | 0.00 | 0.00 | 55.94 | 289.01 | | | | | | | | | | X | X | | | | X | | |
| | Severin | | 0.00 | 164.59 | 0.00 | 164.59 | 17.42 | 0.00 | 0.00 | 43.68 | 225.70 | | | | | | | | | | X | X | | | | X | | |
| | Medias | | 0.00 | 177.81 | 0.00 | 177.81 | 111.73 | 0.00 | 0.00 | 69.49 | 359.03 | | | | | | | | | | X | X | | | | X | | |
| SINGAPORE | Singapore | 59,900 | 0.00 | 180.47 | 54.14 | 234.61 | 0.00 | 43.24 | 51.90 | 23.08 | 352.82 | 0.00 | 180.47 | 54.14 | 234.61 | 0.00 | 43.24 | 51.90 | 23.08 | 352.82 | | | | X | | | | |
| SLOVAKIA | Bratislava | 23,400 | 233.26 | 0.00 | 0.00 | 233.26 | 264.36 | 0.00 | 0.00 | 103.67 | 601.29 | 264.36 | 0.00 | 0.00 | 264.36 | 282.50 | 0.00 | 0.00 | 113.17 | 660.04 | | X | X | | X | | | |
| | Nitra | | 248.81 | 0.00 | 0.00 | 248.81 | 285.10 | 0.00 | 0.00 | 114.04 | 647.95 | | | | | | | | | | X | X | | X | | | | |
| | Košice | | 311.01 | 0.00 | 0.00 | 311.01 | 298.05 | 0.00 | 0.00 | 121.81 | 730.88 | | | | | | | | | | X | X | | X | | | | |
| SOUTH AUSTRALIA | Adelaide | 40,800 | 145.37 | 359.33 | 36.75 | 541.45 | 466.83 | 0.00 | 0.00 | 0.00 | 1,008.28 | 145.37 | 359.33 | 36.75 | 541.45 | 466.83 | 0.00 | 0.00 | 0.00 | 1,008.28 | | | | X | X | X | X | |
| SOUTH KOREA | Seoul | 31,700 | 0.00 | 88.60 | 0.00 | 88.60 | 47.08 | 0.00 | 0.00 | 0.00 | 135.68 | 0.00 | 100.81 | 0.00 | 100.81 | 52.88 | 0.00 | 0.00 | 0.00 | 153.69 | | | | X | | | 7 | |
| | Busan | | 0.00 | 109.47 | 0.00 | 109.47 | 66.31 | 0.00 | 0.00 | 0.00 | 175.78 | | | | | | | | | | | | X | | | | 7 | |
| | Daegu | | 0.00 | 92.98 | 0.00 | 92.98 | 50.63 | 0.00 | 0.00 | 0.00 | 143.61 | | | | | | | | | | | | X | | | | 7 | |
| | Incheon | | 0.00 | 109.71 | 0.00 | 109.71 | 51.35 | 0.00 | 0.00 | 0.00 | 161.06 | | | | | | | | | | | | X | | | | 7 | |
| | Gwangju | | 0.00 | 85.89 | 0.00 | 85.89 | 60.24 | 0.00 | 0.00 | 0.00 | 146.13 | | | | | | | | | | | | X | | | | 7 | |
| | Daejeon | | 0.00 | 82.17 | 0.00 | 82.17 | 53.89 | 0.00 | 0.00 | 0.00 | 136.06 | | | | | | | | | | | | X | | | | 7 | |
| | Ulsan | | 0.00 | 131.05 | 0.00 | 131.05 | 49.58 | 0.00 | 0.00 | 0.00 | 180.63 | | | | | | | | | | | | X | | | | 7 | |
| | Gyeonggi | | 0.00 | 106.58 | 0.00 | 106.58 | 43.94 | 0.00 | 0.00 | 0.00 | 150.52 | | | | | | | | | | | | X | | | | 7 | |
| | SPAIN | Barcelona | 30,600 | 79.31 | 231.76 | 0.00 | 311.07 | 45.15 | 206.10 | 0.00 | 41.36 | 603.68 | 58.10 | 145.59 | 16.79 | 220.48 | 50.84 | 131.55 | 13.37 | 28.31 | 444.56 | | | | X | X | | |
| | | Bilbao | | 26.37 | 113.11 | 0.00 | 139.48 | 25.92 | 131.64 | 5.43 | 22.67 | 325.13 | | | | | | | | | | | | X | X | | | |
| Madrid | | | 85.02 | 127.54 | 0.00 | 212.56 | 32.84 | 101.48 | 0.00 | 27.75 | 374.63 | | | | | | | | | | | | X | X | | | | |
| Sevilla | | | 45.94 | 127.05 | 26.25 | 199.24 | 77.18 | 85.43 | 61.43 | 29.62 | 452.90 | | | | | | | | | | | | X | X | | | | |
| Valencia | | | 53.87 | 128.49 | 57.69 | 240.05 | 73.13 | 133.11 | 0.00 | 20.15 | 466.44 | | | | | | | | | | | | X | X | | | | |
| SWEDEN | Stockholm | 40,600 | 89.38 | 64.69 | 0.00 | 154.07 | 134.13 | 57.04 | 0.00 | 86.31 | 431.56 | 86.86 | 125.94 | 0.00 | 212.79 | 130.27 | 165.30 | 0.00 | 127.09 | 635.46 | | X | | | X | | | |
| | Göteborg | | 117.90 | 121.73 | 0.00 | 239.63 | 176.80 | 156.04 | 0.00 | 143.12 | 715.59 | | | | | | | | | | | | | | X | | | |
| | Malmö | | 95.53 | 94.14 | 0.00 | 189.66 | 143.23 | 100.17 | 0.00 | 108.27 | 541.33 | | | | | | | | | | | | | X | | X | | |
| | Uppsala | | 0.00 | 226.24 | 0.00 | 226.24 | 0.00 | 339.36 | 0.00 | 141.40 | 707.00 | | | | | | | | | | | | X | | | X | | |
| | Linköping | | 131.47 | 122.89 | 0.00 | 254.35 | 197.20 | 173.90 | 0.00 | 156.36 | 781.81 | | | | | | | | | | | | X | | | X | | |
| SWITZERLAND 1 | Geneva | 43,400 | 265.94 | 268.50 | 0.00 | 534.45 | 297.06 | 0.00 | 0.00 | 20.25 | 851.76 | 208.64 | 365.25 | 0 | 573.89 | 437.45 | 0.00 | 0 | 24.71 | 1,036.05 | | | X | | | X | | |
| | Zurich | | 239.73 | 255.72 | 0.00 | 495.45 | 648.88 | 0.00 | 0.00 | 28.12 | 1,172.45 | | | | | | | | | | | | X | | | X | | |
| | Lausanne | | 308.46 | 415.54 | 0.00 | 724.00 | 255.72 | 0.00 | 0.00 | 23.77 | 1,003.48 | | | | | | | | | | | | X | | | X | | |
| | Basel | | 191.79 | 311.12 | 0.00 | 502.91 | 415.54 | 0.00 | 0.00 | 22.46 | 940.91 | | | | | | | | | | | | X | | | X | | |
| | Bern | | 37.29 | 575.36 | 0.00 | 612.65 | 570.03 | 0.00 | 0.00 | 28.96 | 1,211.65 | | | | | | | | | | | | X | | | X | | |
| UGANDA | Uganda residential | 1,300 | 0.00 | 140.02 | 0.00 | 140.02 | 140.02 | 0.00 | 0.00 | 50.41 | 330.44 | 0.00 | 140.02 | 0.00 | 140.02 | 0.00 | 0.00 | 50.41 | 330.44 | | | | | X | | | | |
| | Birmingham | 35,900 | 40.41 | 453.51 | 0.00 | 493.91 | 0.00 | 294.08 | 0.00 | 787.99 | 44.71 | 402.50 | 0.00 | 447.22 | 0.00 | 409.68 | 0.00 | 0.00 | 856.89 | | | | | | | | 8 | |
| UNITED KINGDOM | Cardiff | | 46.57 | 388.77 | 0.00 | 435.34 | 0.00 | 562.76 | 0.00 | 0.00 | 998.11 | | | | | | | | | | | | | | | | | |
| | London | | 41.91 | 365.80 | 0.00 | 407.71 | 0.00 | 257.69 | 0.00 | 0.00 | 665.40 | | | | | | | | | | | | | | | | | |
| | Manchester | | 49.68 | 452.36 | 0.00 | 502.03 | 0.00 | 476.26 | 0.00 | 0.00 | 978.30 | | | | | | | | | | | | | | | | | |
| | Leeds | | 45.00 | 352.08 | 0.00 | 397.08 | 0.00 | 457.59 | 0.00 | 0.00 | 854.67 | | | | | | | | | | | | | | | | | |
| | New York | 48,100 | 126.00 | 223.90 | 0.00 | 349.90 | 0.00 | 356.00 | 0.00 | 0.00 | 705.90 | 62.54 | 152.21 | 0.00 | 214.74 | 1.67 | 202.07 | 0.00 | 0.00 | 418.48 | | X | | | X | | | |
| | Washington D.C. | | 173.40 | 228.80 | 0.00 | 402.20 | 0.00 | 279.64 | 0.00 | 0.00 | 681.84 | | | | | | | | | | | | X | | X | X | 9 | |
| | Los Angeles | | 0.00 | 128.74 | 0.00 | 128.74 | 0.00 | 129.22 | 0.00 | 0.00 | 257.96 | | | | | | | | | | | | | | | X | 10 | |
| UNITED STATES OF AMERICA | Chicago | | 0.00 | 177.26 | 0.00 | 177.26 | 0.00 | 157.76 | 0.00 | 0.00 | 335.02 | | | | | | | | | | | X | | | | X | | |
| | Denver | | 75.96 | 134.21 | 0.00 | 210.17 | 0.00 | 167.13 | 0.00 | 0.00 | 377.30 | | | | | | | | | | | | | X | X | X | | |
| | Miami | | 38.40 | 46.08 | 0.00 | 84.48 | 0.00 | 168.60 | 0.00 | 0.00 | 253.08 | | | | | | | | | | | | | X | X | X | | |
| | Minneapolis | | 24.00 | 126.46 | 0.00 | 150.46 | 11.66 | 156.12 | 0.00 | 0.00 | 318.24 | | | | | | | | | | | | X | X | X | X | | |

Source: For exchange rates to US\$ as per 31 December 2011: <http://nl.exchange-rates.org/historicalrates/E/USD/31-12-2011>. For Gross Domestic Product (GDP): World Fact Book <https://www.cia.gov/library/publications/the-world-factbook/>

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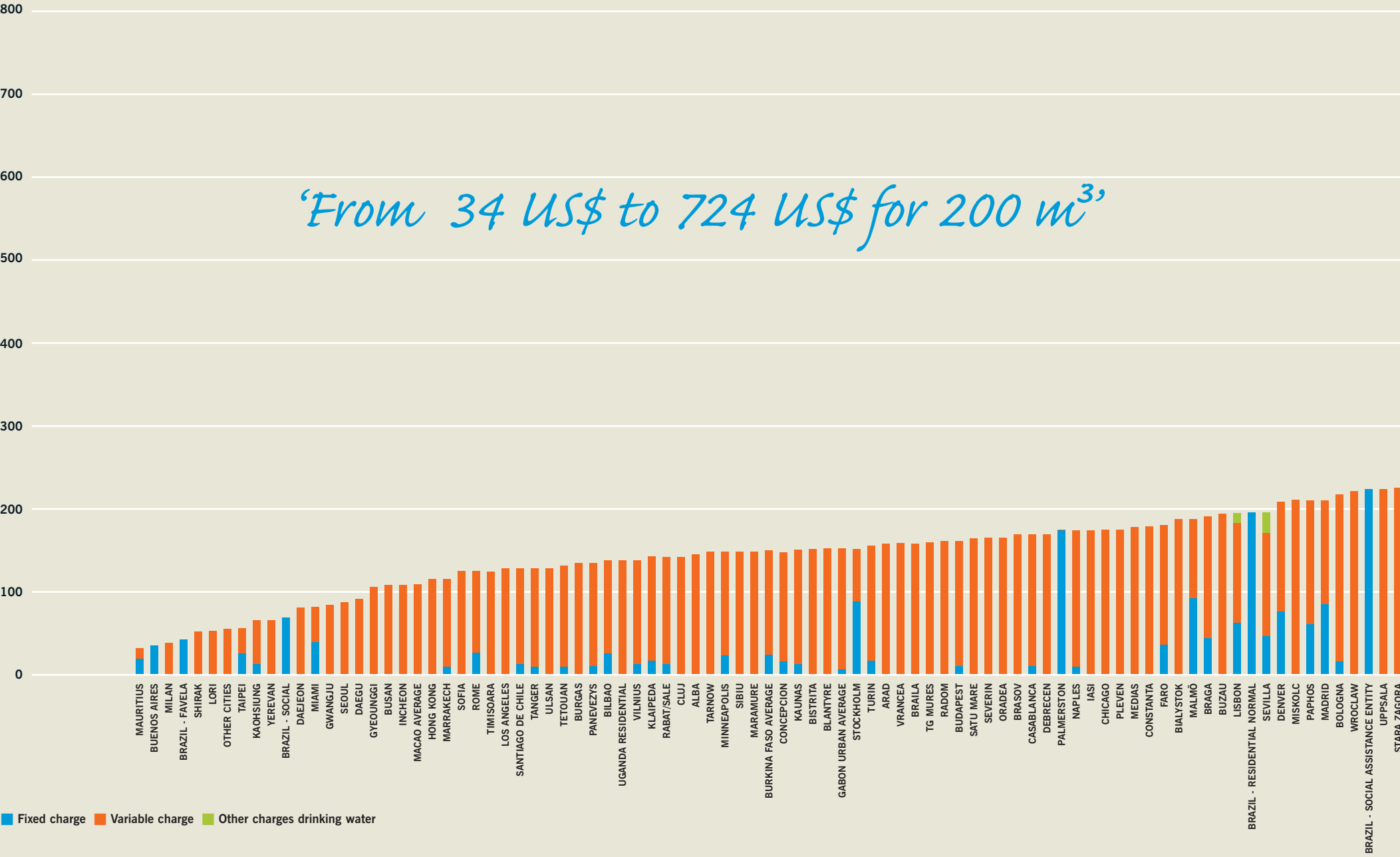
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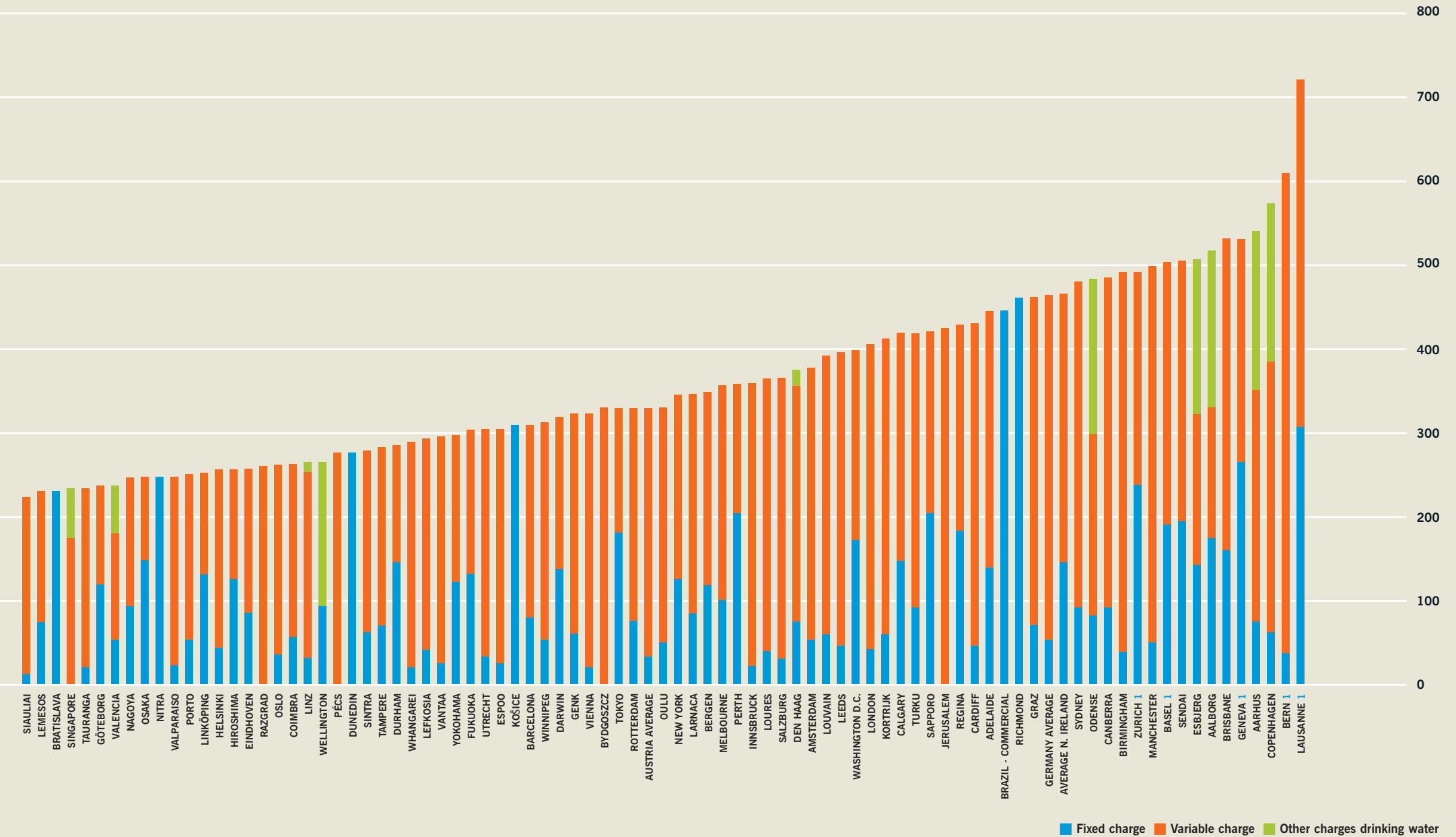
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Total charge drinking water for 180 cities in 2011
for a consumption of 200 m³ in US\$

'From 34 US\$ to 724 US\$ for 200 m³'

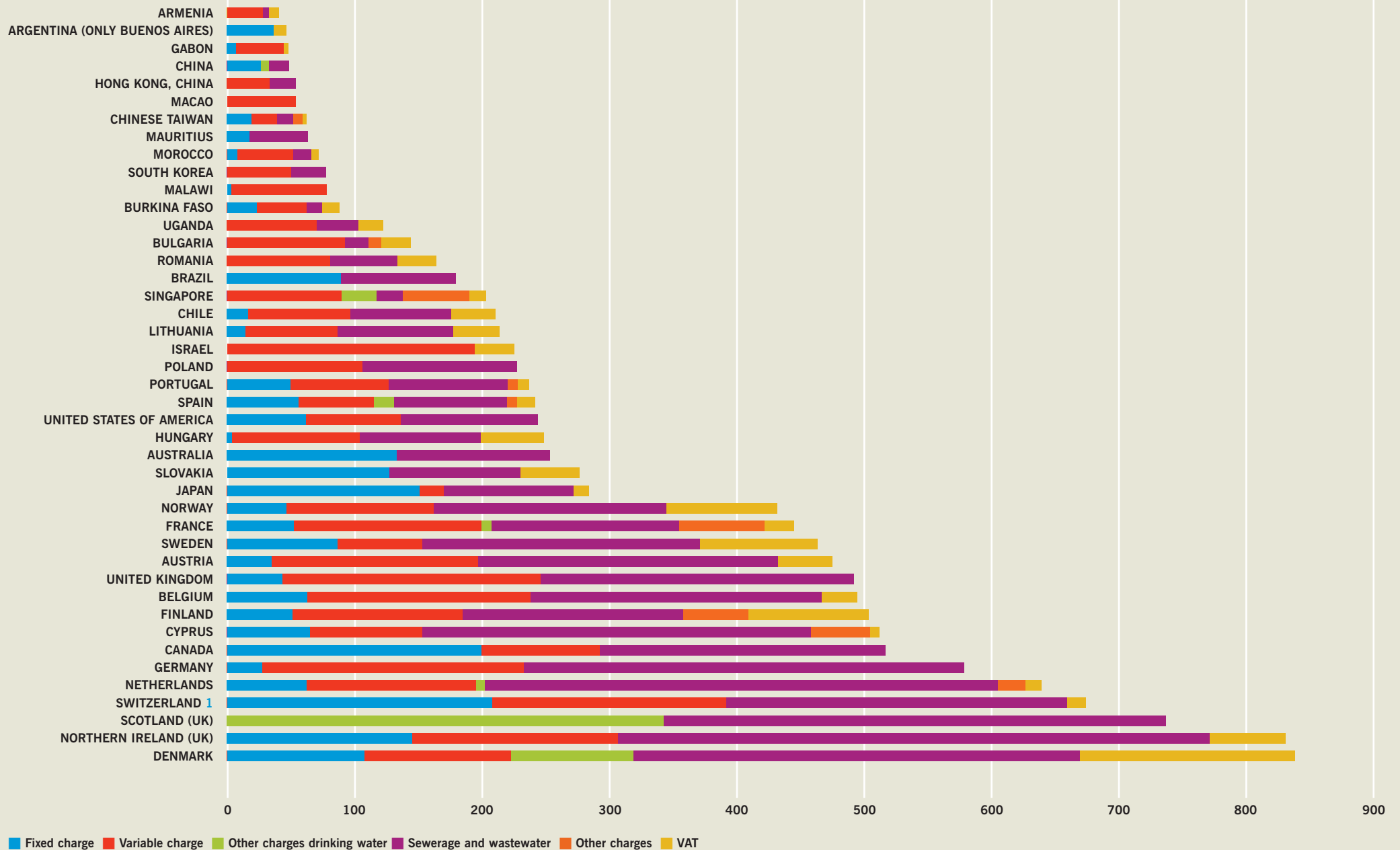


Total charge drinking water for 180 cities in 2011 for a consumption of 200 m³ in US\$



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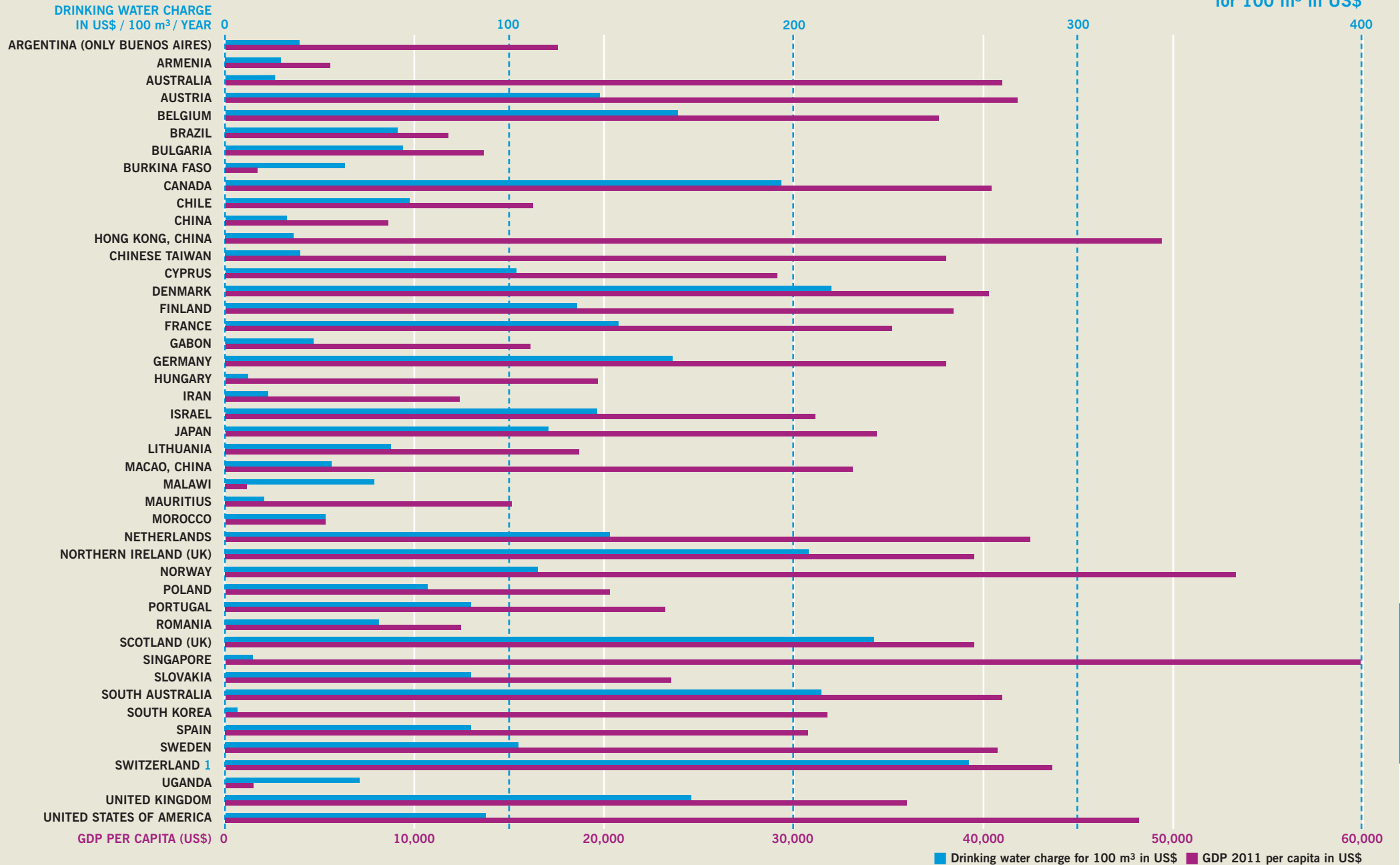
Average annual water cycle charges in 2011 for a consumption of 100 m³* in US\$



* Average volume of considered main cities in the country/region

1 Switzerland: average for one-family-houses is displayed in the graph, the charges for flats (in blocks) are quite a bit lower.

GDP - Drinking water charge in 2011* for 100 m³ in US\$



* Average volume of considered main cities in the country/region
 1 Switzerland: average for one-family-houses is displayed in the graph, the charges for flats (in blocks) are quite a bit lower.

Specific water consumption in 2010 in litres/capita/day

| COUNTRY/REGION | ACTUAL CONSUMPTION | | | AVERAGE CONSUMPTION | |
|-------------------------|--------------------------|------------------------------|-------|------------------------------|-------|
| | TOWN/CITY | HOUSEHOLD AND SMALL BUSINESS | TOTAL | HOUSEHOLD AND SMALL BUSINESS | TOTAL |
| ARGENTINA | Buenos Aires | 375 | 375 | 375 | 375 |
| AUSTRALIA | Brisbane | 80 | 80 | 224 | 224 |
| | Adelaide | 215 | 217 | | |
| | Melbourne | 148 | 148 | | |
| | Perth | 287 | 287 | | |
| | Sydney | 200 | 200 | | |
| | Canberra | 211 | 211 | | |
| | Hobart | n/a | n/a | | |
| | Darwin | 425 | 425 | | |
| AUSTRIA | Graz | n/a | 162 | 135 | 202 |
| | Innsbruck | 121 | 185 | | |
| | Linz | n/a | 270 | | |
| | Salzburg | n/a | 201 | | |
| | Vienna | 148 | 193 | | |
| BELGIUM | Louvain | 101 | 101 | 109 | 109 |
| | Antwerp | 155 | 155 | | |
| | Brussels | 115 | 115 | | |
| | Liège | 92 | 92 | | |
| | Kortrijk | 102 | 102 | | |
| | Genk | 106 | 106 | | |
| | Ghent | 89 | 89 | | |
| BRAZIL | Sao Paulo State (SABESP) | 178 | n/a | 149 | n/a |
| | Country average | 149 | n/a | | |
| | Brasilia Federal | 172 | n/a | | |
| BULGARIA | Sofia | 140 | 148 | 98 | 273 |
| | Burgas | 111 | 355 | | |
| | Pleven | 94 | 312 | | |
| | Razgrad | 66 | 309 | | |
| | Stara Zagora | 77 | 238 | | |
| BURKINA FASO | Country average | 45 | 45 | 45 | 45 |
| CANADA | Calgary | 198 | 333 | 195 | 311 |
| | Winnipeg | 149 | 253 | | |
| | Regina | 185 | 272 | | |
| | Richmond | 240 | 518 | | |
| | Durham | 201 | 177 | | |
| CHILE | Country average | 182 | n/a | 182 | n/a |
| CHINA | Beijing | 150 | 179 | 194 | 366 |
| | Shanghai | 199 | 458 | | |
| | Tianjin | 90 | 261 | | |
| | Shenzhen | 314 | 425 | | |
| | Guangzhou | 219 | 505 | | |
| HONG KONG, CHINA | Hong Kong | 221 | 345 | 221 | 345 |
| CHINESE TAIWAN | Taipei | 346 | 484 | 316 | 543 |
| | Kaohsiung | 285 | 601 | | |
| CYPRUS | Larnaca | 128 | 157 | 146 | 183 |
| | Lefkosia | 152 | 170 | | |
| | Lemesos | 154 | 179 | | |
| | Paphos | 151 | 226 | | |

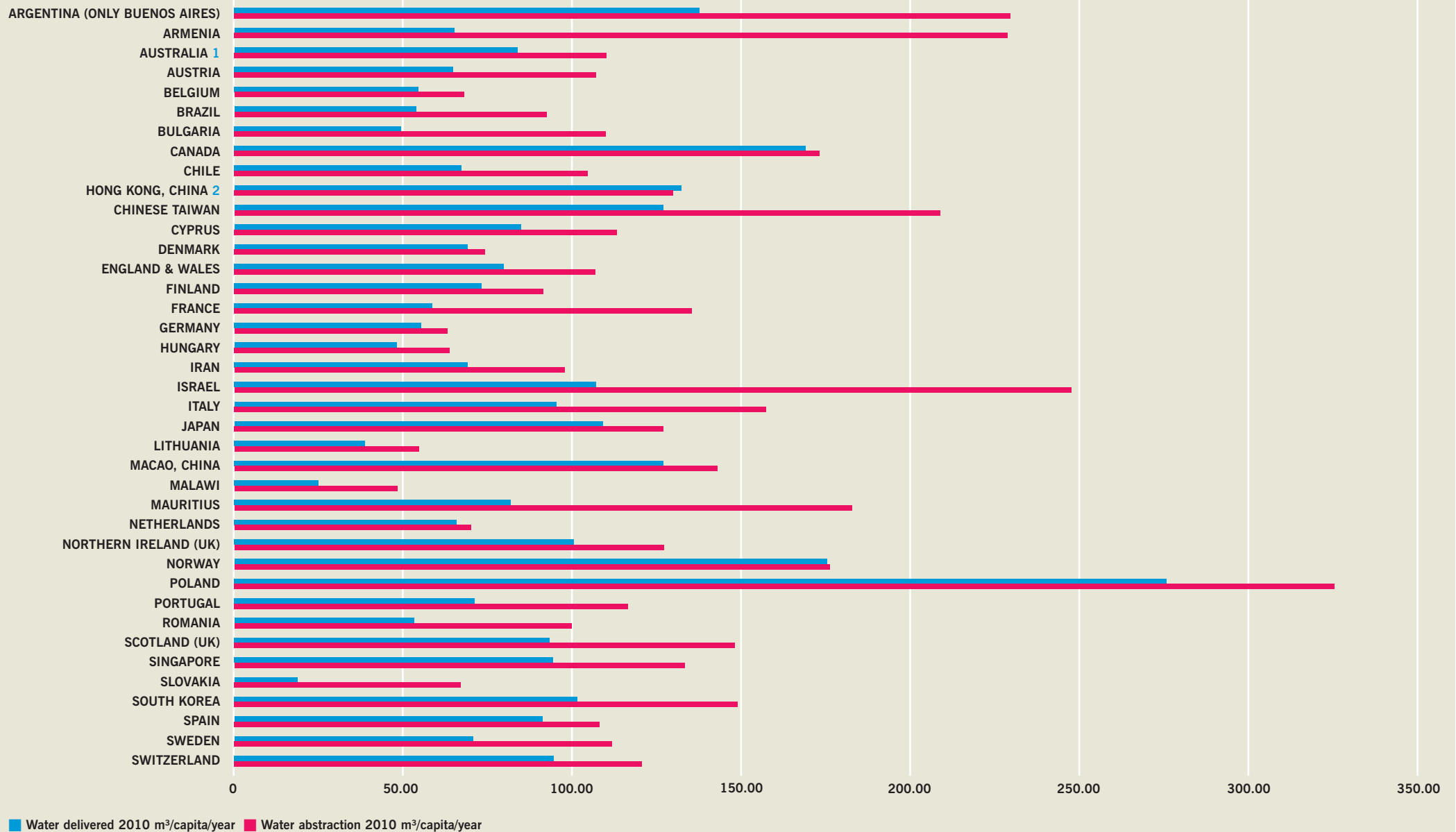
| COUNTRY/REGION | ACTUAL CONSUMPTION | | | AVERAGE CONSUMPTION | |
|---------------------|--------------------|------------------------------|-------|------------------------------|-------|
| | TOWN/CITY | HOUSEHOLD AND SMALL BUSINESS | TOTAL | HOUSEHOLD AND SMALL BUSINESS | TOTAL |
| DENMARK | Aalborg | 114 | 167 | 111 | 188 |
| | Aarhus | 107 | 146 | | |
| | Copenhagen | 107 | 250 | | |
| | Esbjerg | 114 | 208 | | |
| | Odense | 111 | 170 | | |
| FINLAND | Espoo | 158 | 192 | 145 | 192 |
| | Helsinki | 158 | 192 | | |
| | Oulu | 118 | 169 | | |
| | Tampere | 140 | 207 | | |
| | Turku | 137 | 197 | | |
| | Vantaa | 158 | 192 | | |
| GABON | Urban average | 143 | 143 | 143 | 143 |
| GERMANY | Country average | 121 | 150 | 121 | 150 |
| HUNGARY | Budapest | 147 | 213 | 106 | 151 |
| | Debrecen | 108 | 151 | | |
| | Miskolc | 82 | 118 | | |
| | Pécs | 85 | 123 | | |
| ISRAEL | Jerusalem | 163 | 165 | 163 | 165 |
| ITALY | Bologna | 147 | 215 | 236 | 300 |
| | Milan | 464 | 416 | | |
| | Naples | 167 | 262 | | |
| | Rome | 214 | 378 | | |
| | Turin | 190 | 226 | | |
| JAPAN | Nagoya | 223 | 311 | 224 | 311 |
| | Osaka | 253 | 426 | | |
| | Hiroshima | 223 | 299 | | |
| | Fukuoka | 203 | 265 | | |
| | Sapporo | 205 | 259 | | |
| | Sendai | 221 | 309 | | |
| | Tokyo | 231 | 323 | | |
| | Yokohama | 234 | 296 | | |
| LITHUANIA | Kaunas | 82 | 119 | 75 | 117 |
| | Klaipeda | 83 | 136 | | |
| | Panevezys | 67 | 119 | | |
| | Siauliai | 61 | 84 | | |
| | Vilnius | 80 | 128 | | |
| MACAO, CHINA | Country average | 154 | 358 | 154 | 358 |
| MALAWI | Blantyre | 75 | 67 | 75 | 67 |
| MAURITIUS | Mauritius | 166 | 223 | 166 | 223 |
| MOROCCO | Casablanca | 95 | 95 | 109 | 109 |
| | Rabat/Sale | 104 | 104 | | |
| | Tanger | 115 | 115 | | |
| | Tetouan | 99 | 99 | | |
| | Marrakech | 130 | 130 | | |
| NETHERLANDS | Amsterdam | 139 | 139 | 121 | 151 |
| | Eindhoven | 125 | 161 | | |
| | Maastricht | 100 | 153 | | |

Specific water consumption in 2010 in litres/capita/day

| COUNTRY/REGION | ACTUAL CONSUMPTION | | | AVERAGE CONSUMPTION | |
|-----------------|--------------------|------------------------------|-------|------------------------------|-------|
| | TOWN/CITY | HOUSEHOLD AND SMALL BUSINESS | TOTAL | HOUSEHOLD AND SMALL BUSINESS | TOTAL |
| NEW ZEALAND | Wellington | 230 | 411 | 228 | 370 |
| | Dunedin | 228 | 386 | | |
| | Palmerston | 231 | 359 | | |
| | Tauranga | 270 | 294 | | |
| | Whangarei | 179 | 398 | | |
| NORWAY | Bergen | 150 | 428 | 165 | 370 |
| | Oslo | 180 | 313 | | |
| POLAND | Bydgoszcz | 100 | 200 | 101 | 252 |
| | Wroclaw | 117 | 379 | | |
| | Radom | 99 | 135 | | |
| | Bialystok | 93 | 140 | | |
| PORTUGAL | Tarnow | 98 | 408 | | |
| | Lisbon | 127 | 348 | 85 | 232 |
| | Sintra | 90 | 247 | | |
| | Porto | 67 | 184 | | |
| | Loures | 90 | 247 | | |
| ROMANIA | Braga | 61 | 168 | | |
| | Coimbra | 74 | 202 | | |
| | Faro | 84 | 231 | | |
| | Cluj | 102 | 165 | 101 | 150 |
| | Iasi | 115 | 189 | | |
| | Oradea | 118 | 162 | | |
| | Brasov | 99 | 139 | | |
| | Timisoara | 110 | 161 | | |
| | Braila | 77 | 114 | | |
| | Sibiu | 121 | 159 | | |
| SCOTLAND (UK) | Constanta | 118 | 179 | | |
| | Arad | 102 | 142 | | |
| | Bistrita | 100 | 155 | | |
| | Buzau | 87 | 122 | | |
| | Tg Mures | 89 | 148 | | |
| | Satu Mare | 83 | 117 | | |
| | Vrancea | 100 | 128 | | |
| | Alba | 103 | 198 | | |
| | Maramure | 91 | 154 | | |
| | Severin | 109 | 136 | | |
| | Medias | 97 | 132 | | |
| | Scotland Band A | 154 | 178 | 154 | 178 |
| | Scotland Band B | 154 | 178 | | |
| | Scotland Band C | 154 | 178 | | |
| | Scotland Band D | 154 | 178 | | |
| Scotland Band E | 154 | 178 | | | |
| Scotland Band F | 154 | 178 | | | |
| Scotland Band G | 154 | 178 | | | |
| Scotland Band H | 154 | 178 | | | |

| COUNTRY/REGION | ACTUAL CONSUMPTION | | | AVERAGE CONSUMPTION | |
|--------------------------|--------------------|------------------------------|-------|------------------------------|-------|
| | TOWN/CITY | HOUSEHOLD AND SMALL BUSINESS | TOTAL | HOUSEHOLD AND SMALL BUSINESS | TOTAL |
| SINGAPORE | Singapore | 154 | 257 | 154 | 257 |
| SLOVAKIA | Bratislava | 98 | n/a | 94 | n/a |
| | Nitra | 89 | n/a | | |
| | Košice | 94 | n/a | | |
| SOUTH KOREA | Seoul | 285 | 285 | 271 | 271 |
| | Busan | 254 | 254 | | |
| | Daegu | 270 | 270 | | |
| | Incheon | 301 | 301 | | |
| | Gwangju | 263 | 263 | | |
| | Daejeon | 273 | 273 | | |
| SPAIN | Ulsan | 251 | 251 | | |
| | Gyeonggi | 274 | 274 | | |
| | Barcelona | 107 | 158 | 114 | 169 |
| | Bilbao | 109 | 187 | | |
| | Madrid | 124 | 177 | | |
| | Sevilla | 122 | 173 | | |
| SWEDEN | Valencia | 107 | 151 | | |
| | Stockholm | 186 | 186 | 219 | 219 |
| | Göteborg | 235 | 235 | | |
| | Malmö | 221 | 221 | | |
| SWITZERLAND | Uppsala | 210 | 210 | | |
| | Linköping | 242 | 242 | | |
| | Geneva | 200 | 383 | 192 | 341 |
| | Zurich | 165 | 326 | | |
| | Lausanne | 200 | 344 | | |
| UNITED KINGDOM | Basel | 211 | 363 | | |
| | Bern | 182 | 287 | | |
| | Birmingham | 126 | n/a | 143 | n/a |
| | Cardiff | 150 | n/a | | |
| | London | 163 | n/a | | |
| | Manchester | 134 | n/a | | |
| UNITED STATES OF AMERICA | Leeds | 142 | n/a | | |
| | New York | 138 | 378 | 138 | 378 |
| | Washington D.C. | 51 | 139 | | |
| | Los Angeles | 151 | 414 | | |
| | Chicago | n/a | n/a | | |
| | Denver | 198 | 543 | | |
| | Miami | 145 | 398 | | |
| Minneapolis | 144 | 395 | | | |

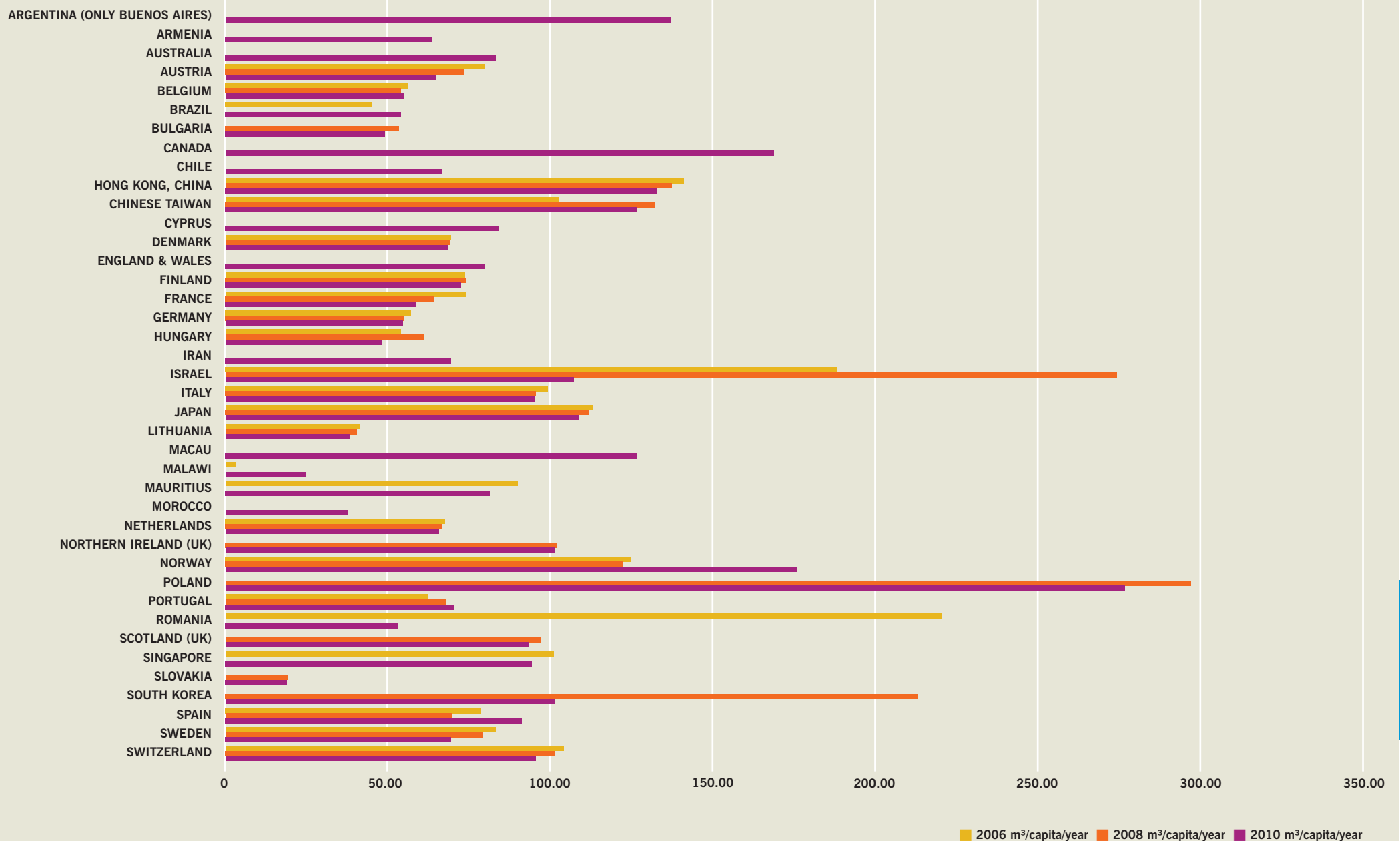
Water abstraction - water delivered in 2010 in m³/capita/year



1 AUSTRALIA: explanation for difference between consumption and abstraction: consumption figures include water drawn from storage areas containing water collected in previous years (reservoirs etc). There was also a serious drought period, therefore Australian water supplies were heavily drawn upon whilst less water was removed from the environment.

2 HONG KONG, CHINA: the water resources are basically from rainfall and Dongjijiang Water (Import from China). Making use of impounding reservoirs to store the raw water as reserve from these two sources to cater for the fluctuating demand. Whenever the water demand exceeds Water Abstraction in a particular year, the water stored as reserve in previous years would be used to meet the demand. As no recycled water was used as fresh water supply in Hong Kong, this means some reserves were used in 2010. This resulted in the total volume of Annual Water Consumption greater than that of Total Water Abstraction in 2010.

Total water delivered in m³/capita/year *
total delivery/population X supply rate



* Total water delivered: annual volume of water consumption by households for domestic consumption. This also includes mixed/commercial properties and multiple household properties, e.g. blocks or flats with an annual volume below 10 000 m³ and the annual volume of water consumption by industry. If not clearly or unequivocally identified, consider consumptions higher than 10 000 m³.

Water Regulation

| RESPONSIBILITIES: | ARGENTINA (ONLY BUENOS AIRES) | ARMENIA | AUSTRALIA | AUSTRIA | BELGIUM | BRAZIL | BULGARIA | BURKINA FASO | CANADA | CHILE | CHINA | HONG KONG, CHINA | CHINESE TAIWAN | CYPRUS | DENMARK | ENGLAND & WALES | FRANCE | FINLAND | GABON | GERMANY | |
|---|-------------------------------|---------|-----------|---------|--------------|------------|----------|--------------|--------|---------|------------|------------------|----------------|------------|----------|-----------------|--------|---------|-------|----------|--|
| Who is responsible for: | | | | | | | | | | | | | | | | | | | | | |
| organizing the water services | S | M, S | S (45) | M | RG, M | RG, M | M, S | S | RG, M | S (31) | RG | RG | S | RG, M, S | M (16) | (18) | M | M | S | M | |
| pricessetting of water services | S | M, S | S (46) | M | RG, M, S (1) | RG, M (21) | S | S | M | | RG | RG | S | RG, M, S | M, S, WS | (19) | M | M | S | M | |
| new investments and the way to finance them | S | WS, S | WS (47) | WS | WS, RWH (2) | WS, RWH | WS, RWH | S | WS | WS (31) | WS, RWH, S | WS | WS | WS, RWH, S | WS | WS | RWH | WS | WS, S | WS | |
| Responsibilities which can be transferred to private operators:Can they yes/no? | | | | | | | | | | | | | | | | | | | | | |
| water service operation | No | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| customer relation management | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| electromechanical equipment renewal | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| existing infrastructure renewal | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| main infrastructure extension | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| research and development | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| others, please specify | - | - | (48) | - | - | (22) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Responsibilities which can be transferred to private operators:Do they exist yes/no? | | | | | | | | | | | | | | | | | | | | | |
| water service operation | No | Yes | Yes | Yes | No | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| customer relation management | No | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| electromechanical equipment renewal | No | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| existing infrastructure renewal | No | Yes | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| main infrastructure extension | No | Yes | Yes | Yes | Yes | Yes | Yes | No | - | - | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | |
| research and development | No | Yes | Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | No | Yes | Yes | |
| others, please specify | - | - | (48) | - | - | (22) | - | - | - | - | - | - | - | - | - | - | - | - | - | (42) | |
| What are the principles for waterpricing? | | | | | | | | | | | | | | | | | | | | | |
| cost covering principles | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| inflation rate growth | No | Yes | Yes | Yes | n/a | Yes | No | Yes | Yes | Yes | Yes | Yes | No | No | No | Yes | Yes | No | Yes | No | |
| annual price limits | No | No | Yes (49) | No | n/a | - | Yes | No | No | - | Yes | Yes | No | Yes | Yes | Yes | No | No | No | (43) | |
| general principle of price cap | No | No | Yes (50) | No | n/a | - | No | - | Yes | Yes | No | Yes | No | No | Yes | No | No | No | No | No | |
| others, please specify | (53) | - | - | - | - | (23) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| ACCESS TO WATER AND SANITATION FOR NON CONNECTED PEOPLE | | | | | | | | | | | | | | | | | | | | | |
| They have portable water from: | | | | | | | | | | | | | | | | | | | | | |
| public taps or fountains | Yes | Yes | Yes | No | Yes (3) | Yes | Yes | Yes | Yes | Yes | No | Yes | No | - | - | No | Yes | No | Yes | No | |
| private wells or springs | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | - | - | Yes | Yes | Yes | Yes | Yes | |
| They have sanitation: | | | | | | | | | | | | | | | | | | | | | |
| decentralized treatment | - | No | Yes | Yes | Yes | - | No | Yes | Yes | Yes | Yes | No | No | - | - | Yes | Yes | Yes | Yes | Yes | |
| others, please specify | Yes (26) | - | (51) | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | Yes (44) | |
| Solidarity mechanism to facilitate to water and sanitation: they are funded by? | | | | | | | | | | | | | | | | | | | | | |
| customers of the watercompanies | Yes | Yes | - | No | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | - | - | - | Yes | No | Yes | Yes | |
| local/national tax payers | Yes | No | Yes | No | Yes | - | No | No | Yes | Yes | Yes | Yes | No | - | - | - | Yes | Yes | No | No | |
| others, please specify (for example international solidarity) | - | - | (52) | - | - | (24) | (27) | - | - | - | - | - | - | - | - | - | - | - | - | - | |

Water Regulation Appendice:

- Water supply companies establish their tariffs and submit them for approval.
- Sewers: municipalities.
- Only few public fountains.
- Own septic tank (often for agricultural use).
- Grants from government for the expansion of water service. Reduction of water charges for low income person.
- Responsibilities have been split up: limited liability drinking water companies with public shareholders for water supply, municipalities for sewerage and public water authorities (Water Boards) for waste water treatment.
- Different per service: water supply, sewerage, waste water treatment.
- Not applicable: in the Netherlands 100% acces = 100% connected.
- Collected sewage in private estate and transported by subcontractor.
- EU funds.
- Only in Bucharest and Ploiesti.
- Only in Bucharest and Ploiesti.
- Investment project on SOP.
- Tariff policy paper (e.g. for 5 years within investment program supported by EU and cofinanced by local actors).
- Depend on the area (in some cases there are available public taps, in most of the cases there is no public network, only wells).

16 All water services are converted into private companies in 2010, but the old municipalities water services are still owned by the municipality.

17 On site treatment, septic tank or biological treatment.

18 Privately owned companies hold licenses to provide water services in a regulated environment.

19 The economic regulator (Ofwat) sets price limits (limits on the amount by which companies are allowed to vary their charges to customers).

20 The physical connection to the public water supply or public sewer is funded by the developer (or self-lay organization), while the new customer pays an "infrastructure charge" to fund local reinforcement of the public system and the general customer.

21 Regulators are already existing in many states and municipalities. The services in Sao Paulo State and in the Federal District of Brasilia are already regulated and tariffs are established by the Regulator.

22 Currently about 7% of the Brazilian population is served in water and sanitation by Private Operators, which started operating in 1995.

23 The Regional Operators are in charge of the water services for 75% of the Brazilian population, with 20% of the Brazilian population served by Municipal Operators and 5% by Private Operators. In many cases tariffs are already established by regulators.

24 In the 26 Regional Operators which serve approximately 75% of the population there are crossed subsidies, between municipalities and also inside each municipality, which are called social tariffs.

25 Part of the supply to agriculture is provided by regional cooperatives. Small quantities by private well owners. Work is often done by private operators, responsibility of utilities owned by municipalities.

26 Septic tanks.

27 European funds.

28 NI Water can outsource services but as the sole water and sewerage undertaker in NI it cannot transfer responsibility for the provisions of water and sewerage services.

29 Septic tanks, private treatment facilities and cesspools.

30 Connections for new and existing non-connected properties (for both water and sewerage) and septic tank desludging services are subsidized.

31 Price setting and investment between water companies and regulator.

32 "Interior" ministry and concession contracts.

33 Septic tanks.

34 The water supply and drinking water are strictly operated by the regional governments and a public company, K-Water as from 2010. Thus, water supply is controlled by both regional government and a public company. However, parts of

| HUNGARY | IRAN | ISRAEL | ITALY | JAPAN | LITHUANIA | MACAO, CHINA | MALAWI | MAURITIUS | MOROCCO | NETHERLANDS | NORTHERN IRELAND | NORWAY | POLAND | PORTUGAL | ROMANIA | SCOTLAND | SINGAPORE | SLOVAKIA | SOUTH KOREA | SPAIN | SWEDEN | SWITZERLAND | UGANDA | UNITED STATES OF AMERICA | |
|---------|------|----------|-------|-------|-----------|--------------|--------|-----------|---------|-------------|------------------|--------|------------|-----------------|----------|----------|-----------|----------|-------------|------------|--------|-------------|---------|--------------------------|----------|
| M | RG | S | M | RG, M | M | M | S | S | M, S | WC (6) | RG | M | RG, M | M, S (40) | M | S | RG | M | RG, S | M | M | M | S | M | |
| M | RG | S | M | RG, M | M | M | S | S | M, S | RG, M | RG | M | RG, M | M, S (40) | M, S | S | RG | M, S | RG | RG, M | M | M | S | M | |
| WS | RWH | WS, S | WS, S | WS | RWH, S | WS, M | S | S | WS (32) | WS | S | WS | WS, RWH, S | WS, RWH, S (40) | WS, S | S | WS | WS | WS | WS, RWH, S | WS | WS | S | WS | |
| | | | | | | | | | | (7) | | | | | | | | | | | | | | | |
| Yes | Yes | Yes (25) | Yes | Yes | No | Yes | Yes | No | Yes | n/a | No | No | Yes | Yes | Yes (11) | No | No | Yes | Yes | Yes | No | Yes | No | Yes (38) | |
| Yes | Yes | Yes | Yes | Yes | No | Yes | No | Yes | Yes | n/a | No | No | Yes | Yes | Yes (12) | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | n/a | No | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| No | Yes | n/a | Yes | No | Yes | Yes | Yes | Yes | Yes | n/a | No | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | n/a | No | Yes | Yes | Yes | Yes | Yes | No | Yes | No | Yes | Yes | Yes | Yes | Yes | |
| No | Yes | n/a | Yes | No | Yes | Yes | Yes | Yes | - | n/a | No | No | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | No | Yes | Yes | |
| - | - | - | - | - | - | - | - | - | - | - | (28) | - | - | - | - | - | - | - | - | (34) | - | (37) | - | - | |
| | | | | | | | | | | (7) | | | | | | | | | | | | | | | |
| Yes | No | No | Yes | Yes | No | Yes | No | No | Yes | n/a | n/a | No | Yes | Yes | Yes (11) | No | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes (38) | |
| Yes | Yes | No | Yes | Yes | No | Yes | No | Yes | Yes | n/a | n/a | No | Yes | Yes | Yes (12) | No | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | |
| Yes | Yes | n/a | Yes | No | Yes | Yes | Yes | Yes | Yes | n/a | n/a | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | |
| No | No | n/a | Yes | No | Yes | Yes | Yes | Yes | Yes | n/a | n/a | Yes | Yes | Yes | Yes (13) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| Yes | Yes | Yes | Yes | No | No | Yes | Yes | Yes | Yes | n/a | n/a | Yes | Yes | Yes | No | Yes | Yes | Yes | No | Yes | Yes | Yes | No | Yes | |
| No | Yes | n/a | Yes | No | Yes | Yes | No | No | - | n/a | n/a | No | No | Yes | No | Yes | Yes | Yes | No | Yes | No | No | No | Yes | |
| - | - | - | - | - | - | - | - | - | - | - | (28) | - | - | - | - | - | - | - | - | (34) | - | (37) | - | - | |
| | | | | | | | | | | (7) | | | | | | | | | | | | | | | |
| Yes | No | Yes | Yes | Yes | Yes | Yes | Yes | Yes | - | n/a | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | Yes | Yes | |
| Yes | Yes | Yes | Yes | No | Yes | Yes | No | No | - | n/a | Yes | No | Yes | Yes | Yes | No | - | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| No | Yes | No | Yes | No | No | Yes | Yes | No | - | n/a | Yes | No | No | Yes | n/a | Yes | No | No | No | No | No | No | No | No | |
| No | Yes | No | Yes | No | No | Yes | No | No | - | n/a | Yes | No | No | Yes | n/a | Yes | No | No | No | No | Yes | No | No | No | |
| - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | (14) | - | - | - | - | (35) | - | - | - | - | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes | Yes | Yes | Yes | No | Yes | No | Yes | Yes | - | (8) | No | No | Yes | Yes | (15) | Yes | No | No | Yes | - | No | No | Yes | No | |
| Yes | No | Yes | Yes | Yes | Yes | No | Yes | - | - | (8) | Yes | Yes | Yes | Yes | Yes | Yes | No | Yes | Yes | - | Yes | Yes | Yes | Yes | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yes | No | No | Yes | Yes | Yes | Yes | Yes | No | - | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | - | Yes | Yes | Yes | Yes | |
| Yes (9) | - | Yes (26) | - | - | - | - | - | - | - | - | Yes (29) | No | - | Yes (41) | - | - | - | - | - | - | - | - | Yes (4) | Yes (33) | Yes (39) |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| No | No | Yes | No | No | Yes | Yes | Yes | No | - | - | No | Yes | No | Yes | No | No | Yes | Yes | No | Yes | No | No | Yes | Yes | |
| Yes | Yes | No | No | No | Yes | Yes | Yes | No | - | - | Yes | No | Yes | Yes | No | Yes | Yes | - | - | - | - | Yes | No | No | |
| - | - | - | - | (5) | (10) | - | - | - | - | - | (30) | - | - | - | - | - | - | - | - | (36) | - | - | - | - | |

sewer and sewerage treatment plants are operated by private companies, although major plants and sewer systems are still controlled by the regional governments and public companies in Korea. They are mainly responsible for construction of infrastructures. Thus, responsibilities for water service is both public (water) and private (sewerage).

35 Water and sewage pricing in Korea is not based on the actual cost, in 2010 fiscal year. The water fee covers less than 80% of the operating cost, while sewage fee covers less than 40% of operating cost. The 'operating cost' does not include capital and amortization cost. The subsidies from central government (for sewage sector) and local government (for drinking water sector) covers the deficits.

36 In general, most of Korean citizens are connected to public water supply and sanitation system. The private sewage treatment (septic tank, etc) are installed in remote areas which does not have public sewers. KOICA and NGO's provide foreign support to under-developed countries.

37 Private operators can not own the infrastructure and can not be responsible for service, but they can work as an entrepreneur for the public service after an order is given.

38 In general, not very common in the US. Most common is to have water treatment operation handled by a private operator.

39 Septic systems.

40 Regulator.

41 Septic tanks.

42 Management of surface waters, resource protection.

43 Yes for municipalities and no for private.

44 Without drainage pits, septic tanks.

45 Water is generally a state based responsibility, but service delivery arrangements differ across jurisdictions.

46 Larger utilities have some autonomy in price-setting, but are subject to Administrative Tribunals with ultimate decision-making power.

47 Water utilities use standard methods for providing funding for new activities/infrastructure (retained earnings, borrowing funds and public wealth etc.).

48 Use of public/private partnerships increasingly common in the Australian water sector.

49 Multiple year pricing arrangements may be introduced by some states.

50 Often applied.

51 Onsite treatment in regional and remote areas of Australia are common.

52 AUSAID is a taxpayer funded government body which supports international aid activities.

53 In 2002 tariff revisions are suspended and therefore there was no tariff increase since then. In 2006 the National Government nationalized the company and started to subsidize it.

Responsibilities Key:

- G:** Government
- M:** Municipalities
- ME:** Municipalities enterprises
- O:** Operators
- O/WC:** Owners/water companies
- RA:** Regional Agency
- RG:** Regional governments
- RM:** Regulation ministry
- RWH:** Regional water holdings
- S:** State
- SH:** Shareholders
- WC:** Water companies
- WS:** Water services

Explanation notes for International Statistics for Water Services – Busan 2012

Explanation notes for graphs and tables concerning abstraction

1. **AUSTRALIA** Other sources in 2010: desalination and recycled water.
2. **BRAZIL** Figures for 2009.
3. **BURKINA FASO** Only for urban areas.
4. **HONG KONG, CHINA**
 - a. In Hong Kong the water resources are basically from rainfall and Dongjijang Water (Import from China). We use impounding reservoirs to store the raw water as reserve from these two sources to cater for the fluctuating demand. Whenever the water demand exceeds water abstraction in a particular year, the water stored as reserve in previous years can be used to meet the demand. As no recycled water was used as fresh water supply in Hong Kong, this means some reserves were used in 2010. This resulted in the total volume of Annual Water Consumption greater than that of Total Water Abstraction in 2010.
 - b. Other sources in 2008: importation.
5. **CYPRUS**
 - a. Spring water in 2010 included in ground water.
 - b. Other sources in 2010: desalination.
6. **GABON**
 - a. Only for urban areas.
 - b. Total 2010 is total water production and not total water abstraction.
7. **ISRAEL**
 - a. Other sources in 2008: recycled and brackish water.
 - b. Other sources in 2010: recycled water.
8. **JAPAN** Other sources in 2010: desalination.
9. **NETHERLANDS** Other sources in 2008: river-ground water.
10. **POLAND** Other sources in 2008: drainage water from mines and buildings.
11. **SINGAPORE** Other sources in 2010: desalination.
12. **SPAIN** Other sources in 2010: desalination.
13. **SWEDEN**
 - a. Other sources in 2008: artificial infiltration.
 - b. Other sources in 2010: artificial groundwater by infiltrated surface water.
14. **UGANDA** Only for urban areas.
15. **UNITED STATES OF AMERICA** Other sources in 2010: purchased from other utilities (no data on source).

Explanation notes for graphs and tables concerning water delivered, population and connection rates

1. **BRAZIL** Figures for 2009.
2. **BURKINA FASO** Only for urban areas.
3. **CHINA**
 - a. In China there are 6 categories, such as government owned affiliation water consumption, business (e.g. restaurant, car washing, office), special organization (e.g. military), and other consumption.
 - b. Population in 2010: only data for urban area in China. The data of rural and sub-urban is unavailable.
4. **GABON**
 - a. Only for urban areas.
 - b. Sewerage connection rate in 2010: no public service (only some storm water mains managed by municipalities).
5. **MOROCCO** Population in 2010: total country urban population: as in most developing or emerging countries, the service is completely different in urban and rural areas.
In urban areas, more than 96% of the population is connected to networks and services, almost at the European quality level, while about 90% of rural population uses public standpipes.
6. **SINGAPORE** Domestic water consumption in 2010.
7. **SWITZERLAND** Population in 2006, 2008 and 2010 includes Liechtenstein.
8. **UGANDA** Only for urban areas.

Explanation notes for graphs and tables concerning charges

General note: Average volume of considered main cities in the country.

1. **ARGENTINA**
 - a. Buenos Aires: the average bill for residential (domestic) users. Total annual water bill for 100 m³ and 200 m³ is the same because 88% of users are unmetered. This percentage is even bigger for residential users.
 - b. Water rate design for domestic use: 88% of users are unmetered (flat rate). Metered users pay a fixed charge (50% of flat rate for unmetered) plus a uniform rate for consumption over 20 m³ each two months.
2. **CHILE** Water rate design for domestic use: 16% of clients receive 7% of operational revenue as direct subsidies from the state budget.
3. **CYPRUS** Other charges: drainage charge.
4. **DENMARK**
 - a. Waste water tax for discharging nutrients.
 - b. Fixed bill component and variable component for waste water treatment.

5. **LITHUANIA** Water rate design for domestic use: volumetric charge (based on water consumption)
6. **NORTHERN IRELAND** Water rate design for domestic use: all domestic usage, including a domestic allowance for non-domestic customers, is funded/subsidized via a block grant from the government.
7. **SINGAPORE**
 - a. Waste water treatment charge: water borne fee.
 - b. Other charges: sanitary appliance fee (assumed 2 fittings).
 - c. VAT & other taxes: goods and service taxes of 7%.
8. **SOUTH KOREA** Water rate design for domestic use: sewerage fee is designed by multiplying the factors to drinking water fee.
9. **SWITZERLAND** Average for one-family-houses is displayed in the graph, the charges for flats (in blocks) are quite a bit lower.
10. **UNITED KINGDOM** Water rate design for domestic use: For all areas customers will be on either unmetered or metered charges. Both have a fixed charge and a variable charge. The variable charge for unmetered bills is based on the rateable value of the property. The variable charge for metered bills is based on the amount of water used. Metered customers cannot choose to move to an unmetered charge but unmetered customers can move to a metered charge. If an unmetered customer moved to a metered charge they can choose to return to an unmetered charge within 12 months.
11. **UNITED STATES OF AMERICA**
 - a. Water rate design for domestic use: With the exception of NY, each city has separate rates. In New York, the charge for sewer is 1,59 x the water charge.
 - b. Water rate design for domestic use: L.A. has a seasonal rate (higher rates in the summer).

Explanation notes for graphs and tables concerning consumption

1. **BURKINA FASO** For domestic consumption and standpipes.
2. **FINLAND**
 - a. Consumption in cities Espoo, Helsinki and Vantaa: total invoiced consumption of Helsinki Region Environmental Services Authority (operating in cities of Espoo, Kauniainen, Helsinki and Vantaa).
 - b. Consumption in city Tampere: data from 2009.
3. **SWITZERLAND** Total consumption: including industry, public services and water losses.

The following people made statistical data available for this publication:

| | | | |
|----------------------------|---|---------------------------------|---|
| Argentina | E. Lentini, <i>AySA Buenos Aires</i> and J.F. Verges | Mauritius | N. Dookhony, <i>Central Water Authority</i> and B.R. Damoree, <i>Wastewater Management Authority</i> |
| Armenia | J.F. Verges and H. Petrosyan based on data from republic of Armenia | Morocco | J.F. Verges based on DRSC data |
| Australia | T. Mollenkopf, <i>Australian Water Association</i> | Netherlands | P.J.J.G. Geudens, <i>Vewin</i> and E. Oosterom, <i>Rioned</i> and Eric Gloude-mans, <i>Unie van Waterschappen</i> |
| Austria | A. Riha, <i>OVGW</i> | New Zealand | P. Whitehouse, <i>Water New Zealand</i> |
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