

EUSERS SUMMER SCHOOL

Performance and Governance of Services of General Interest.

Critical perspectives on Energy, Telecommunications, Transport and Water Reforms in the EU

June, 27th – July 1st 2016

PRICE DATA FOR SERVICES OF GENERAL INTEREST

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JEAN MONNET NETWORK

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1. Electricity

Source: Eurostat (<http://ec.europa.eu/eurostat/data/database>)

→ Environment and Energy → Energy → Energy Statistics: prices of natural gas and electricity

GEO/TIME	2010-S2	2011-S2	2012-S2	2013-S2	2014-S2	2015-S2
European Union (28 countries)	0,1245	0,1313	0,1382	0,1386	0,1397	0,1419
Euro area	0,1254	0,1320	0,1372	0,1387	0,1377	0,1373
Belgium	0,1460	0,1595	0,1684	0,1641	0,1678	0,1842
Bulgaria	0,0692	0,0727	0,0796	0,0735	0,0746	0,0798
Czech Republic	0,1146	0,1208	0,1238	0,1223	0,1043	0,1057
Denmark	0,1096	0,1201	0,1063	0,1020	0,1010	0,0940
Germany	0,1370	0,1395	0,1432	0,1489	0,1440	0,1427
Ireland	0,1629	0,1755	0,1954	0,2026	0,2085	0,1991
Spain	0,1492	0,1684	0,1789	0,1787	0,1861	0,1864
France	0,0995	0,1017	0,1070	0,1105	0,1094	0,1107
Croatia	0,0930	0,0925	0,1100	0,1060	0,1013	0,1003
Italy	0,1387	0,1412	0,1525	0,1501	0,1468	0,1479
Lithuania	0,1005	0,1009	0,1048	0,0878	0,0883	0,0863
Netherlands	0,1266	0,1343	0,1377	0,1374	0,1269	0,1228
Austria	0,1396	0,1444	0,1412	0,1361	0,1294	0,1239
Poland	0,1082	0,1052	0,1195	0,1121	0,1097	0,1105
Portugal	0,1061	0,1068	0,1174	0,1243	0,1301	0,1153
Romania	0,0839	0,0823	0,0748	0,0896	0,0906	0,0938
Finland	0,1026	0,1108	0,1097	0,1087	0,1050	0,1009
Sweden	0,1280	0,1340	0,1345	0,1321	0,1194	0,1202
United Kingdom	0,1380	0,1509	0,1701	0,1712	0,1917	0,2079
Norway	0,1388	0,1351	0,1266	0,1279	0,1182	0,0994
Albania	:	0,0964	0,0973	0,0962	0,0967	0,0683

Electricity pre-tax prices for domestic consumers (euro/kwh)

Electricity – Caveats

- Statistical units:
 - Households end-users
 - Industrial end-users
- Currency:
 - Euro
 - PPS (purchasing power standard)
 - National currencies (former currencies of the euro area countries)
- Unit of Measure: Currency/Kilowatt-hour
- Taxes:
 - exclude taxes and levies
 - exclude VAT and other recoverable taxes and levies
 - include all taxes and levies
- Time: 1985-2015 (biannual data)

2. Natural Gas

Source: Eurostat (<http://ec.europa.eu/eurostat/data/database>)

→ Environment and Energy → Energy → Energy Statistics: prices of natural gas and electricity

GEO/TIME	2010-S2	2011-S2	2012-S2	2013-S2	2014-S2	2015-S2
European Union (28 countries)	0,0434	0,0497	0,0543	0,0544	0,0555	0,0543
Euro area	0,0456	0,0517	0,0566	0,0568	0,0572	0,0545
Belgium	0,0479	0,0586	0,0585	0,0523	0,0501	0,0478
Bulgaria	0,0359	0,0393	0,0463	0,0432	0,0403	0,0326
Czech Republic	0,0431	0,0496	0,0551	0,0475	0,0465	0,0482
Denmark	0,0482	0,0526	0,0460	0,0428	0,0340	0,0326
Germany	0,0420	0,0478	0,0486	0,0519	0,0513	0,0513
Ireland	0,0436	0,0517	0,0561	0,0599	0,0620	0,0601
Greece	:	:	0,0843	0,0728	0,0647	0,0605
Spain	0,0458	0,0458	0,0722	0,0714	0,0769	0,0746
France	0,0482	0,0538	0,0568	0,0606	0,0626	0,0582
Croatia	0,0308	0,0302	0,0378	0,0374	0,0380	0,0368
Italy	0,0498	0,0562	0,0645	0,0621	0,0626	0,0584
Lithuania	0,0374	0,0446	0,0505	0,0507	0,0413	0,0360
Netherlands	0,0425	0,0486	0,0530	0,0506	0,0479	0,0434
Austria	0,0434	0,0534	0,0567	0,0560	0,0540	0,0523
Poland	0,0414	0,0407	0,0468	0,0414	0,0407	0,0405
Portugal	0,0589	0,0643	0,0687	0,0723	0,0802	0,0758
Romania	0,0145	0,0144	0,0146	0,0161	0,0153	0,0179
Sweden	0,0627	0,0649	0,0670	0,0677	0,0626	0,0645
United Kingdom	0,0402	0,0498	0,0550	0,0560	0,0615	0,0637

Natural gas pre-tax prices for domestic consumers (euro/kwh)

Natural Gas – Caveats

- Statistical units:
 - Households end-users
 - Industrial end-users
- Currency:
 - Euro
 - PPS (purchasing power standard)
 - National currencies (former currencies of the euro area countries)
- Unit of Measure:
 - Currency/Kilowatt-hour (only from 2007)
 - Currency/Giga-Joules
- Taxes:
 - excluding taxes and levies
 - excluding VAT and other recoverable taxes and levies
 - including all taxes and levies
- Time: 1985-2015 (biannual data)

3. Telecommunications

Source: Eurostat (<http://ec.europa.eu/eurostat/data/database>)

Then, select: Industry, Trade and Services → Information Society Statistics
→ Telecommunication Services → Telecommunication Service, Historical Data (prior 2010) → Telecommunications Services: Prices

GEO/TIME	2006	2007	2008	2009	2010
European Union (27 countries)	0,34	0,35	0,37	0,38	0,41
Belgium	0,57	0,58	0,60	0,62	0,63
Czech Republic	0,64	0,64	0,64	0,64	0,65
Denmark	0,37	0,37	0,37	0,37	0,13
Germany	0,39	0,40	0,40	0,29	0,29
Ireland	0,49	0,52	0,52	0,58	0,58
Greece	0,31	0,31	0,31	0,31	0,32
Spain	0,19	0,23	0,24	0,29	0,30
France	0,36	0,36	0,35	0,36	0,36
Italy	0,22	0,22	0,22	0,22	0,22
Netherlands	0,33	0,33	0,45	0,55	0,60
Austria	0,49	0,49	0,49	0,49	0,54
Poland	0,36	0,36	0,51	0,51	0,51
Portugal	0,37	0,37	0,37	0,37	0,37
Romania	0,32	0,32	0,22	0,22	0,24
Finland	0,24	0,28	0,39	0,29	0,34
Sweden	0,30	0,30	0,30	0,30	0,29
United Kingdom	0,36	0,39	0,48	0,63	0,77
United States	0,08	0,08	0,08	0,08	0,08
Japan	0,35	0,35	0,33	0,33	0,33

10 minutes local call price (euros)

Telecommunications – Caveats

- The indicator gives the price in Euro of a 10 minute call at 11 am on a weekday (including VAT) for :
 - Local calls (3km)
 - National long distance calls (200km)
 - International calls to USA
- Unit of Measure: Euro
- Time: 1998-2010 (annual data)

4. Local Public Transport

Source1 : Eurostat (<http://ec.europa.eu/eurostat/web/cities/data/database>)

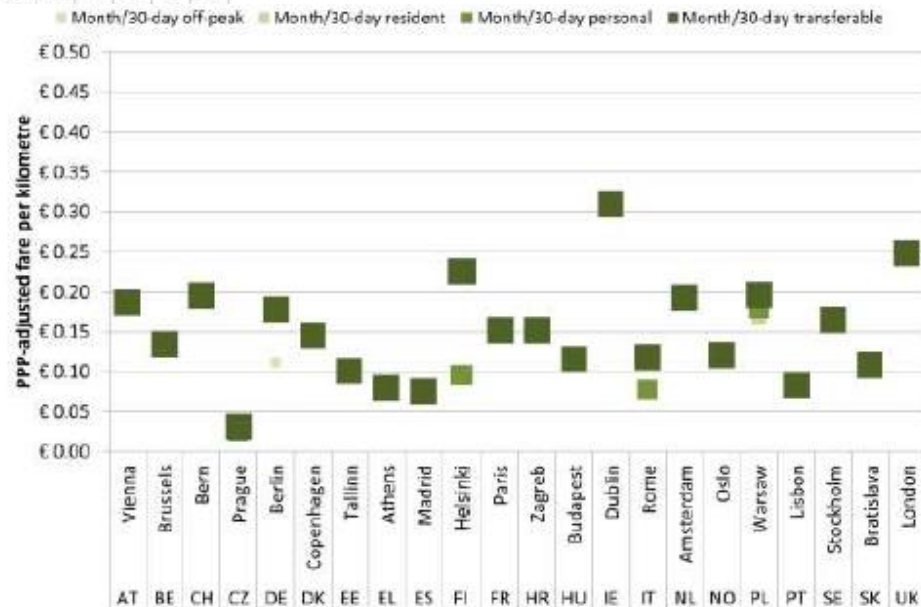
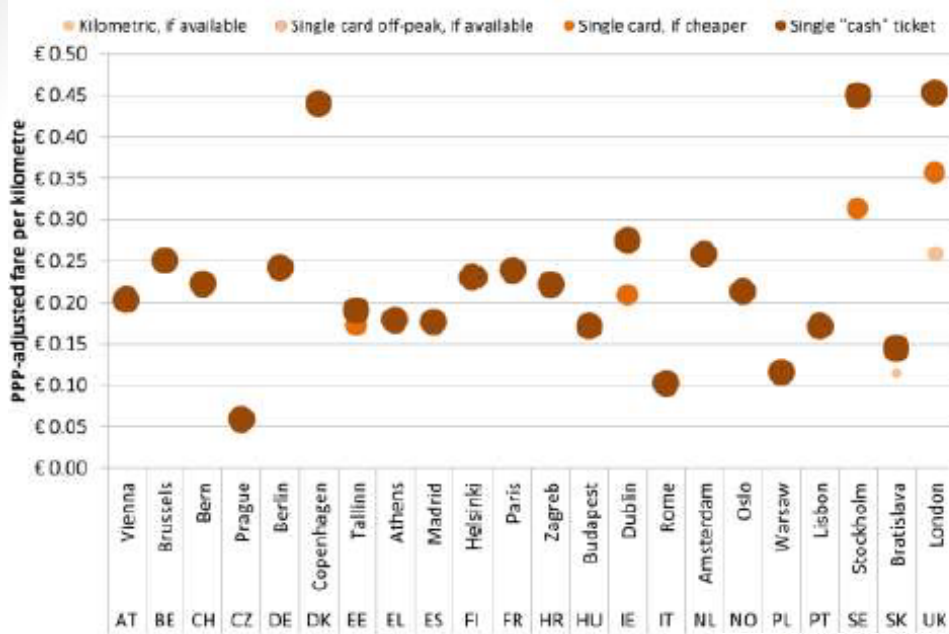
CITIES/TIME	2010	2011	2012	2013	2014
BELGIUM					
Bruxelles / Brussel	45,00	45,00:		52,00	54,00
Gent	28,00	28,50:		30,50	32,00
Liège	33,00	33,50:		37,00	37,00
GERMANY					
Berlin	72,00	74,00	77,00	78,00	78,00
Hamburg	56,00	58,00	59,00	60,80	62,60
München	40,40	46,40	48,10	49,90	51,60
Frankfurt	36,50	37,00	38,60	39,60	39,60
SPAIN					
Madrid	46,00	47,60	51,30:		
Barcelona	48,85	51,00:			
Valencia	39,60	39,60:			
HUNGARY					
Budapest	36,00	35,10	33,90:		
POLAND					
Warszawa	:	20,03	21,08:		
PORTUGAL					
Lisboa	38,75	46,10	48,40:		49,30
Porto	30,70	36,50	36,00:		36,00
SWEDEN					
Stockholm	78,70	86,38:			
NORWAY					
Oslo	66,00	73,00	76,00:		
SWITZERLAND					
Zürich	57,00	64,00	67,00	65,80	69,20
Genève	51,00	57,00	58,00	56,90	57,60

Local Public Transport – Caveats

- Variable: cost of a combined monthly ticket (all modes of public transport)
- Data by city
- Currency: Euro
- Time: 1990-2014 (annual data)
- Problem: some missing values

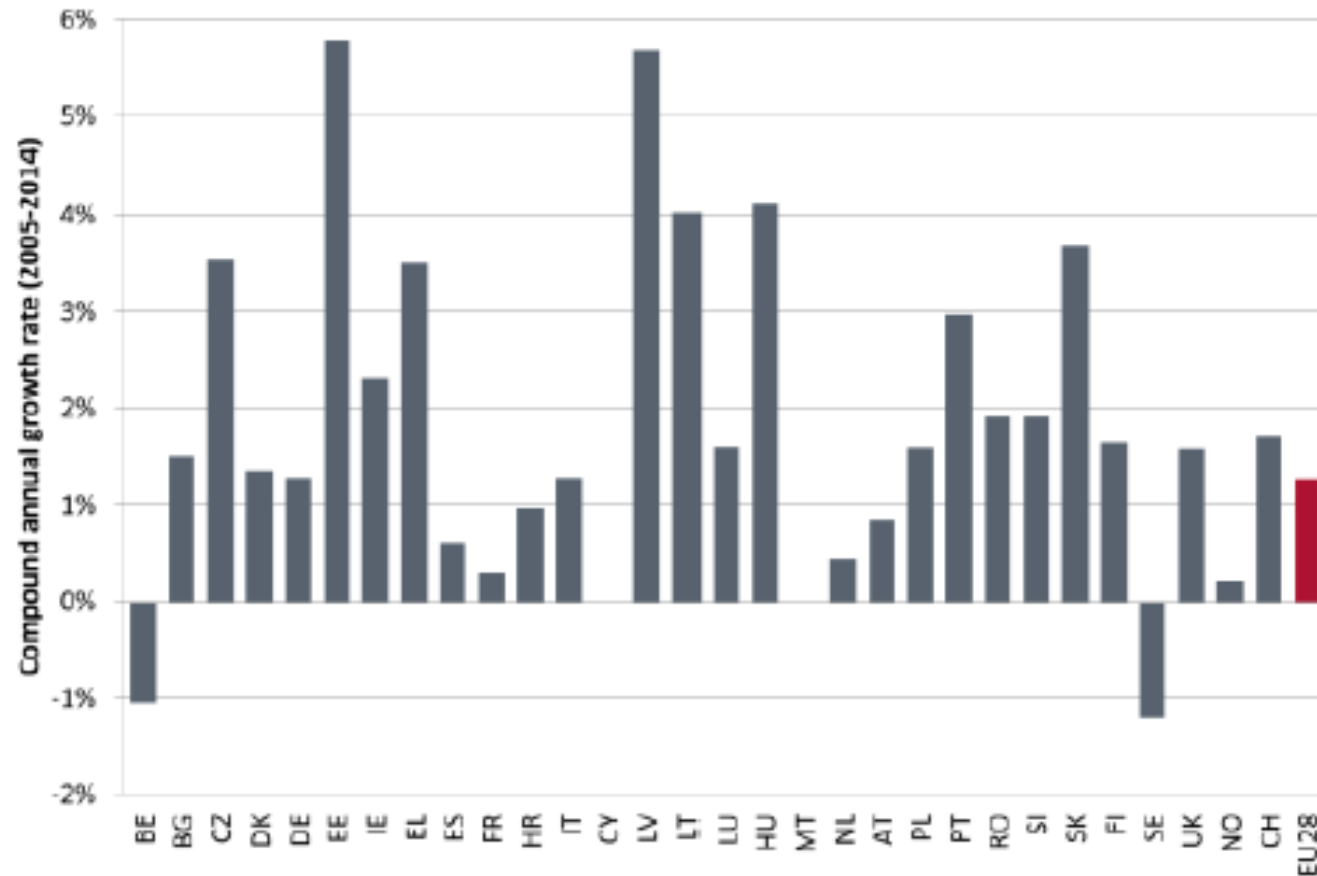
Source 2: Study on the prices and quality of rail passengers services, EC Directorate General for Mobility and Transport, 2016

Suburban Fares: single



Suburban Fares: monthly

Harmonised Index of Consumer prices: rail transport / all transport (2005-2014)



Source: Study on the prices and quality of rail passengers services, EC Directorate General for Mobility and Transport, 2016

5. Transport Networks (Railways)

Source 1: World Bank Railways database 2007

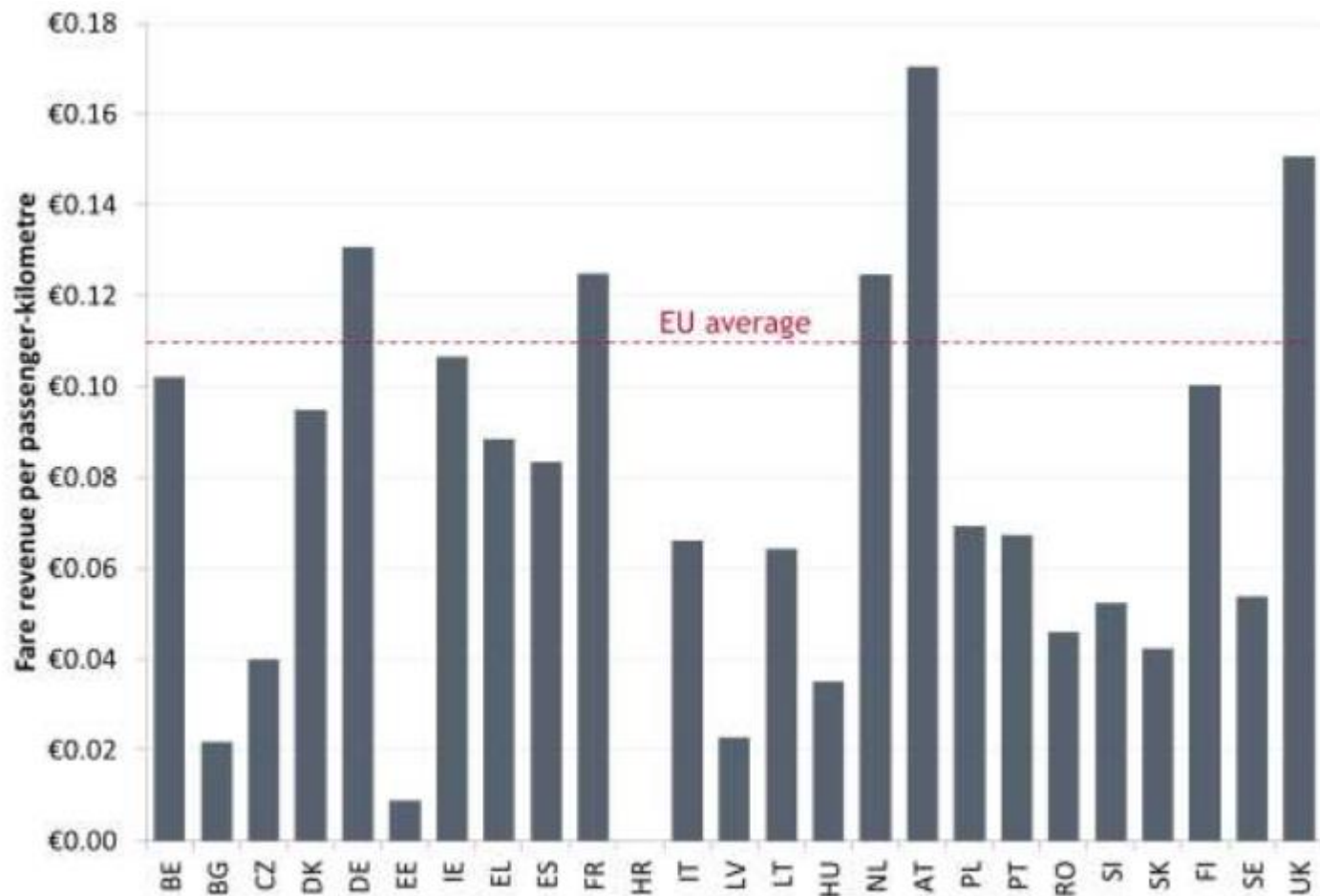
COUNTRY/YEAR	2001	2002	2003	2004	2005
Austria	0,066	0,068	0,132	0,134	-
Belgium	0,114	0,117	0,117	0,116	-
Denmark	-	0,090	0,091	0,093	-
Finland	0,076	0,076	0,089	0,091	-
France	0,087	0,120	0,124	0,130	-
Greece	0,028	0,029	0,038	0,038	-
Ireland	0,075	0,079	0,086	0,092	-
Israel	0,042	-	0,041	-	-
Italy	0,047	0,085	0,086	0,087	-
Japan	0,131	0,141	0,130	0,137	-
Netherlands	0,091	0,107	0,102	0,106	-
Portugal	0,037	0,039	0,044	0,047	-
Spain	0,049	0,051	0,052	0,056	-
Sweden	0,116	0,112	0,108	0,114	-
Switzerland	0,082	0,098	0,089	0,094	-
United Kingdom	0,141	0,139	0,139	-	-
Germany	0,130	0,160	0,160	0,159	-
Canada	0,110	0,113	0,112	-	-
USA:Suburban	0,148	0,143	0,145	0,126	0,125
USA:Heavy Rail	0,089	0,089	0,089	0,092	

Railways – Caveats

- Variable (unit of measure): Revenues per passenger-km
- Currency:
 - Dollar
 - Euro (in yellow)
- Time: 1980-2005 (annual data)

Source 2: Study on the prices and quality of rail passengers services, EC Directorate General for Mobility and Transport, 2016

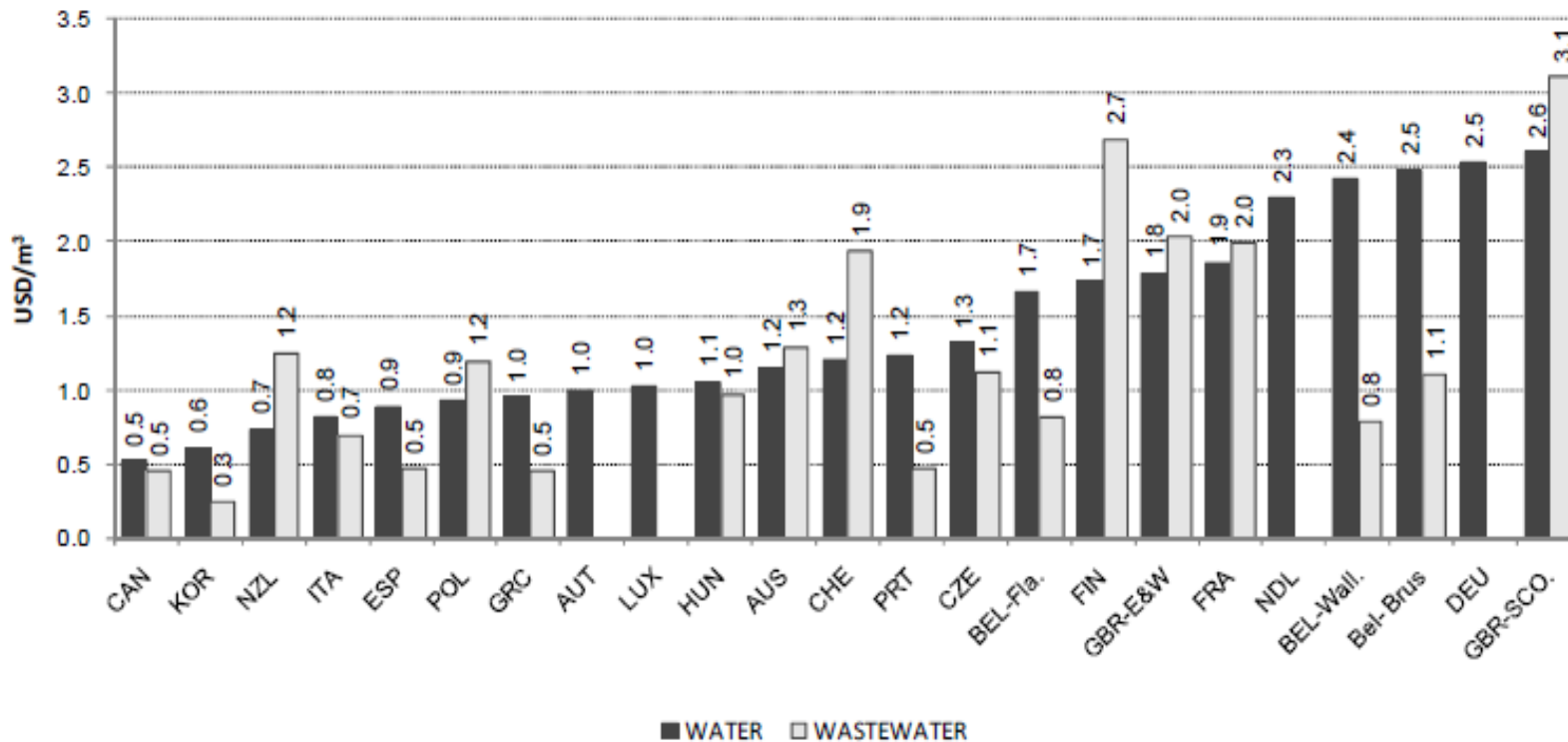
Revenues per-passengers-kilometer (2012)



6. Water and Wastewater

- OECD (ENVIRONMENT DIRECTORATE, ENVIRONMENT POLICY COMMITTEE): PRICING WATER RESOURCES AND WATER AND SANITATION SERVICES (2007-08)
(www.oecd.org/water)
 - It is a survey of residential water tariffs conducted in 2007-08, using a reference consumption of 15 cubic meters per household and month, covering more than 150 cities in all 30 OECD member countries.
 - The OECD survey is complemented by the survey of Global Water Intelligence (GWI) conducted in 2007-2008 and covering 184 utilities in OECD countries and 94 utilities in non-OECD countries
- IBNet TARIFFS DATABASE
(<https://tariffs.ibnet.org/TariffTable>)

Unit price of water services and wastewater services to households, including tax (USD/m³)



Source: OECD, Pricing water resources and water and sanitation services (2007-2008)

IBNet Tariffs Database: Italy

Utility - City (15 m3)	City	NUTS 1	Service	Date	15 m3	50 m3	100 m3
Veritas - Venice - Water	Venice	Northeast Italy	Water	01/01/2016	11,03	68,49	150,59
Veritas - Venice - Wastewater	Venice	Northeast Italy	Wastewater	01/01/2016	13,85	46,16	92,32
GORI S.p.A. - Torre del Greco - Water	Torre del Greco	South Italy	Water	30/06/2016	20,47	125,31	309,24
GORI S.p.A. - Torre del Greco - Wastewater	Torre del Greco	South Italy	Wastewater	01/06/2015	10,4	33	65,29
Acquedotto del Fiora - Siena - Wastewater	Siena	Central Italy	Wastewater	08/07/2011	41,88	99,11	180,85
Acquedotto del Fiora - Siena - Water	Siena	Central Italy	Water	08/07/2015	29,01	234,55	564,47
ACEA - Rome - Water	Rome	Central Italy	Water	01/01/2015	10,69	170,75	488,1
ACEA - Rome - Wastewater	Rome	Central Italy	Wastewater	01/01/2015	17,57	53,51	104,86
ACEA - Rome - Water	Rome	Central Italy	Water	01/01/2016	9,53	152,27	435,27
ACEA - Rome - Wastewater	Rome	Central Italy	Wastewater	01/01/2016	15,67	47,71	93,49
AMAP - Palermo - Water	Palermo	Insular Italy	Water	23/05/2014	23,02	150,7	342,21
AMAP - Palermo - Wastewater	Palermo	Insular Italy	Wastewater	23/05/2014	16,44	54,79	109,57
Acqua Bene Comune - Naples - Water	Naples	South Italy	Water	01/01/2015	15,11	83,07	193,55
Acqua Bene Comune - Naples - Wastewater	Naples	South Italy	Wastewater	29/03/2013	9,83	32,78	65,56
Metropolitana Milanese - Milan - Wastewater	Milan	Northwest Italy	Wastewater	01/01/2015	9,36	31,19	62,37
Mediterranea delle Acque - Genova - Water	Genova	Northwest Italy	Water	01/01/2016	20,49	150,19	346,69
Mediterranea delle Acque - Genova - Wastewater	Genova	Northwest Italy	Wastewater	01/01/2016	19,69	65,63	131,27
ACEA - Frosinone - Water	Frosinone	Central Italy	Water	01/01/2015	31,59	220,17	496,25
ACEA - Frosinone - Wastewater	Frosinone	Central Italy	Wastewater	01/01/2015	24,3	73,52	143,84
Publiacqua - Florence - Water	Florence	Central Italy	Water	05/10/2015	28,27	218,94	495,66
Publiacqua - Florence - Wastewater	Florence	Central Italy	Wastewater	05/10/2015	22,38	74,6	149,2
Publiacqua - Florence - Water	Florence	Central Italy	Water	01/01/2016	29,54	228,85	518,09
Publiacqua - Florence - Wastewater	Florence	Central Italy	Wastewater	01/01/2016	23,39	77,96	155,92