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COMMISSION STAFF WORKING DOCUMENT

**Technical Annex to the Communication from the Commission to the Council and the
European Parliament
Report on progress in creating the internal gas and electricity market**

Accompanying document to the

**COMMUNICATION FROM THE COMMISSION TO THE COUNCIL AND THE
EUROPEAN PARLIAMENT**

Report on progress in creating the internal gas and electricity market

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BACKGROUND TO THIS REPORT

This summary technical report contains important background information relevant to the main 2009 Communication on the implementation of the electricity and gas Directives¹. The bulk of the information is based on the reports made by national regulators, which were submitted in the second half of 2009. These individual reports have been published and can be found on the website of the European Regulators' Group for Electricity and Gas (www.ergreg.org).

This report consists of comparative tables and graphs which, as in previous benchmarking exercises, draw together key indicators submitted by regulators. In addition, the Commission has this year conducted separate country reviews of Member States which are more forward looking assessments of the prospects for competition.² Since these comprise the main evaluation work of the Commission, no commentary has been provided for the tables in this document.

Most of the data used was submitted at the end of July 2009 and generally reflected the position at that date. However, some data items, referring to the information in a particular calendar year, will refer to the year 2008 as a whole. Where data is currently unavailable, this appears in tables as follows: "NA" (not available) or in the case the data is not applicable for the abbreviation: "NAP".

¹ 2003/54/EC and 2003/55/EC

² see http://ec.europa.eu/energy/energy_policy/annexes_en.htm

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1. LEGAL IMPLEMENTATION

Table 1.1 Market opening gas & electricity: Proportion of market open to competition

Eligible consumption TWh/ GWh by annual consumption in the country

% Market opening				
	Electricity		Gas	
	2007	2008	2007	2008
Austria	100	100	100	100
Belgium	100	100	100	100
Bulgaria	100	100	100	100
Cyprus³	31,8	31,8	0	0
Czech Republic	100	100	100	100
Denmark	100	100	100	100
Estonia	13	13 ⁴	100	100
Finland	100	100	0	0
France	100	100	100	100
Germany	100	100	100	100
Great Britain	100	100	100	100
Greece	90,1	90,1 ⁵	73	90
Hungary	22,29	64,4	24,96	34,04
Ireland	100	100	100	100
Italy	100	100	100	100
Latvia	100	100	NAP	NAP ⁶
Lithuania⁷	74	100	100	100
Luxembourg	100	100	100	100
Malta⁸	:	:	:	:
Northern Ireland	NAP	100	NAP	100
Norway	100	100	:	:
Poland	100	100	100	100
Portugal	100	100	42,9	42,9 ⁹
Romania	100	100	100	100
Slovak Republic	100	100	100	100
Slovenia	100	100	100	100
Spain	100	100	100	100
Sweden	100	100	100	100
The Netherlands	100	100	100	100

³ No developed gas market

⁴ Transitional period, for 2009: 35%, 2013: 100%

⁵ All customers eligible except for micro-systems on all interconnected islands

⁶ Derogation until 2010

⁷ Derogation until 2010

⁸ No developed gas market

⁹ Derogation until 2010

2. CUSTOMER DIMENSION

Table 2.1 Increase in Annual Switching Rate Electricity 2007/2008 (by volume)

	whole retail market			large industry			medium sized industry			small industry and households		
	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ
Austria	5,50%	9,30%	3,80%	2,70%	15,90%	13,20%	16,80%	17,60%	0,80%	3,40%	4,20%	0,80%
Belgium	NA	NA		NA	NA		NA	NA		NA	NA	
Bulgaria	12,70%	13,80%	1,10%	48,60%	49,60%	1,00%	1,08%	1,10%	0,02%	0%	0%	0,00%
Cyprus	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%
Czech Republic	NA	NA		NA	NA		NA	NA		NA	NA	
Denmark	13,70%	11,00%	-2,70%	NA	NA		20,80%	18%	-2,80%	6,40%	4%	-2,40%
Estonia	0%	0%		0%	NA		0%	NA		0%	NA	
Finland	NA	NA		NA	NA		NA	NA		NA	NA	
France	NA	NA		NA	NA		NA	NA		NA	NA	
Germany	10,03%	9,12%	-0,91%	13,19%	10,64%	-2,55%	9,71%	10,03%	0,32%	4,23%	5,53%	1,30%
Great Britain	NA	NA		NA	NA		NA	NA		NA	NA	
Greece	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%
Hungary	NA	NA		NA	NA		NA	NA		NA	NA	
Ireland	NA	NA		NA	12,37%		NA	10,06%		NA	4,56%	
Italy	4,60%	NA		1,20%	NA		7,00%	NA %		4,00%	NA	
Latvia	1%	1%	0,00%	0%	0%	0,00%	1%	1%	0,00%	0%	0%	0,00%
Lithuania	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%
Luxembourg	15%	8%	-7,00%	29,10%	15,20%	-13,90%	0,40%	1,10%	0,70%	0,18%	0,15%	-0,03%
Malta												
Northern Ireland	NAP	2,50%		NAP	8%		NAP	5%		NAP	5%	
Norway	NA	NA		NA	NA		NA	NA		NA	NA	
Poland	7,80%	7,70%	-0,10%	16,95%	17,00%	0,05%	0,13%	0,31%	0,18%	0,00%	0,05%	0,05%
Portugal	7,20%	0,10%	-7,10%	0%	0%	0,00%	14,10%	0%	-14,10%	5,20%	0,20%	-5,00%
Romania	NA	8,97%		6,22%	18,61%	12,39%	7,13%	3,29%	-3,84%	0,93%	0,12%	-0,81%
Slovak Republic	2%	0,90%	-1,10%	NA	1,90%		0%	0%	0,00%	0%	0,92%	0,92%
Slovenia	2,40%	2,60%	0,20%	0%	0,07%	0,07%	3,60%	1,70%	-1,90%	1,23%	0,83%	-0,40%
Spain	10%	NA		10%	NA		22%	NA		3%	NA	
Sweden	9,10%	9,20%	0,10%	8,70%	9,10%	0,40%	8,70%	9,10%	0,40%	10,40%	9,70%	-0,70%
The Netherlands	NA	NA		NA	NA		NA	NA		NA	NA	

Source: Regulators data, Δ calculations DG TREN

Table 2.2 Increase in Annual Switching Rate Electricity 2007/2008 (by eligible point)

	whole retail market			large industry			medium sized industry			small industry and households		
	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ
Austria	1,70%	1,70%	0,00%	5,10%	14,40%	9,30%	16,60%	17,90%	1,30%	1,70%	1,70%	0,00%
Belgium	10,10%	NA		1%	NA		NA	NA		NA	NA	
Bulgaria	0,00%	0,00%	0,00%	35%	36%	1,00%	0,01%	0,01%	0,00%	0%	0%	0,00%
Cyprus	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%	0%	0,00%	0,00%
Czech Republic	0,80%	0,90%	0,10%	33%	45%	12,00%	15%	18%	3,00%	0,80%	0,90%	0,10%
Denmark	3,00%	2,80%	-0,20%	NA	NA		20,70%	13,50%	-7,20%	2,80%	2,70%	-0,10%
Estonia	0%	0%	0,00%	0%	NA		0%	NA		0%	NA	
Finland	4,00%	4,40%	0,40%	NA	NA		NA	NA		NA	NA	
France	0,40%	2%	1,60%	1,20%	1%	-0,20%	0,03%	0%	-0,03%	2,20%	1,00%	-1,20%
Germany	3,36%	4,75%	1,39%	15%	17,36%	2,36%	4,65%	4,57%	-0,08%	3,18%	4,71%	1,53%
Great Britain	NA	NA		NA	NA		NA	NA		19,10%	19,90%	0,80%
Greece	0%	0%	0,00%	NAP	NAP		NAP	NAP		NAP	NAP	
Hungary	NA	NA		NA	NA		NA	NA		NA	NA	
Ireland	NA	1,17%		NA	10,44%		NA	9,83%		0,40%	1,13%	0,73%
Italy	1,90%	3,70%	1,80%	28,20%	32,50 %	4,30%	22,60%	32,80%	10,20%	1,90%	10,40%	8,50%
Latvia	1%	1%	0,00%	0%	0%		1%	1%	0,00%	0,00%	0,00%	0,00%
Lithuania	0%	0%	0,00%	0%	0%	0,00%	0%	0%	0,00%	0,00%	0,00%	0,00%
Luxembourg	0,20%	0,20%	0,00%	11,44%	3,60%	-7,84%	0,19%	0,37%	0,18%	0,19%	0,17%	-0,02%
Malta												
Northern Ireland	NAP	0,40%		NAP	8%		NAP	5%		NAP	5,00%	
Norway	8,52%	7,80%	-0,72%	NAP	NAP		7,57%	7,60%	0,03%	8,63%	8,10%	-0,53%
Poland	NA	NA		NA	NA		NA	NA		NA	NA	
Portugal	2,20%	1,20%	-1,00%	0%	0%	0,00%	3,90%	0%	-3,90%	2,20%	1,20%	-1,00%
Romania	NA	0,01%		4,42%	4,16%	-0,25%	3,15%	2,07%	-1,08%	0,07%	0,00%	-0,07%
Slovak Republic	2%	0,17%	-1,83%	2%	2,77%	0,77%	0%	0,15%	0,15%	0%	0,20%	0,20%
Slovenia	0,40%	0,60%	0,20%	0%	0%	0,00%	0,02%	0,02%	0,00%	0,40%	0,56%	0,16%
Spain	2%	NA		18%	NA %		7%	NA		2%	NA	
Sweden	10%	11,30%	1,30%	10,30%	7,50%	-2,80%	10,30%	7,50%	-2,80%	9,50%	9,20%	-0,30%
The Netherlands	NA	9,30%		NA	NA		NA	NA		8,50%	9,30%	0,80%

Source: Regulators data, Δ calculations DG TREN

Table 2.3 Increase in Annual Switching Rate Gas 2007/2008 (by volume)

	whole retail market			large industry			medium sized industry			small industry and households		
	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ
Austria	3,30%	3,30%	0,00%	NA	NA		4,20%	4,20%	0,00%	0,70%	0,70%	0,00%
Belgium	NA	NA		NA	NA		NA	NA		NA	NA	
Bulgaria	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Cyprus	NAP	NAP		NAP	NAP		NAP	NAP		NAP	NAP	
Czech Republic	NA	NA		NA	NA		NA	NA		NA	NA	
Denmark	29,00%	16,00%	-13,00%	NA	NA		35,00%	25,00%	-10,00%	4,00%	2,50%	-1,50%
Estonia	NA	NA		0,00%	NA		0,00%	NA		NA	NA	
Finland	NAP	NAP		NAP	NAP		NAP	NAP		NAP	NAP	
France	NA	NA		NA	NA		NA	NA		NA	NA	
Germany	3,79%	4,35%	0,56%	4,76%	6,82%	2,06%	3,88%	6,49%	2,61%	1,23%	2,57%	1,34%
Great Britain	NA	NA		NA	NA		NA	NA		NA	NA	
Greece	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Hungary	8,10%	14,20%	6,10%	88,00%	91,30%	3,30%	46,00%	56,30%	10,30%	4,80%	11,80%	7,00%
Ireland	NA	NA		NA	NA		NA	NA		NA	NA	
Italy	NA	34,90%		NA	40,00%		4,70%	6,80%	2,10%	1,00%	1,40%	0,40%
Latvia	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Lithuania	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Luxembourg	NA			0,00%			0,00%			0,00%		
Malta												
Northern Ireland	NAP	0,00%		NAP	0,00%		NAP	0,00%		NAP	0,00%	
Norway												
Poland	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Portugal	0,00%	0,00%	0,00%	NAP	NAP		NAP	NAP		NAP	NAP	
Romania	NA	NA		NA	NA		NA	NA		NA	NA	
Slovak Republic	NA	0,00%		0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	NA	0,00%	
Slovenia	0,00%	0,52%	0,52%	0,00%	1,52%	1,52%	0,00%	2,72%	2,72%	0,00%	0,03%	0,03%
Spain	20,00%	6,00%	-14,00%	20,00%	9,00%	-11,00%	20,00%	8,00%	-12,00%	15,00%	4,10%	-10,90%
Sweden	NA	NA		NA	NA		NA	NA		NA	NA	
The Netherlands	NA	NA		NA	NA		NA	NA		NA	NA	

Source: Regulators data, Δ calculations DG TREN

Table 2.4 Increase in Annual Switching Rate Gas 2007/2008 (by metering point)

	whole retail market			large industry			medium sized industry			small industry and households		
	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ
Austria	0,60%	0,50%	-0,10%	NA	6,70%		3,90%	5,80%	1,90%	0,60%	0,50%	-0,10%
Belgium	9,66%	NA		NA	NA		NAP	NA		NA	NA	
Bulgaria	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Cyprus	NAP	NAP		NAP	NAP		NAP	NAP		NAP	NAP	
Czech Republic	NA	0,02%		5,28%	6,70%	1,42%	0,11%	1,20%	1,09%	0,00%	0,20%	0,20%
Denmark	0,90%	0,60%	-0,30%	NA	NA		14,00%	13,00%	-1,00%	0,90%	0,50%	-0,40%
Estonia	NA	NA		0,00%	NA		0,00%	NA		NA	2,10%	
Finland	NAP	NAP		NAP	NAP		NAP	NAP		NAP	NAP	
France	NA	9,81%		NA	NA		NA	NA		0,50%	9,82%	9,32%
Germany	1,01%	2,85%	1,84%	4,20%	15,81%	11,61%	0,85%	8,63%	7,78%	1,01%	2,78%	1,77%
Great Britain	NA	NA		NA	NA		NA	NA		18,40%	18,90%	0,50%
Greece	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Hungary	NA	NA		NA	NA		NA	NA		NA	NA	
Ireland	NA	NA		NA	NA		NA	NA		NA	NA	
Italy	0,80%	1,20%	-0,40%	5,40%	14,20%	8,80%	4,20%	3,50%	-0,70%	0,70%	1,10%	0,40%
Latvia	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Lithuania	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Luxembourg	NA			0,00%			0,00%			0,00%		
Malta												
Northern Ireland	NAP	0,00%		NAP	0,00%		NAP	0,00%		NAP	0,00%	
Norway												
Poland	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%
Portugal	0,00%	0,00%	0,00%	NAP	NAP		NAP	NAP		NAP	NAP	
Romania	NA	NA		NA	NA		NA	NA		NA	NA	
Slovak Republic	0,00%	0,00%	0,00%	0,00%	0,00%	0,00%	NA	0,00%		NA	0,00%	
Slovenia	0,00%	0,06%	0,06%	0,00%	11,76%	11,76%	0,00%	1,20%	1,20%	0,00%	0,32%	0,32%
Spain	5,00%	4,10%	0,90%	20,00%	9,00%	-11,00%	20,00%	8,00%	-12,00%	5,00%	4,00%	-1,00%
Sweden	NA	0,80%		NA	8,70%		NA	8,70%		NA	0,30%	
The Netherlands	NA	9,10%		NA	NA		NA	NA		8,30%	9,10%	0,80%

Source: Regulators data, Δ calculations DG TREN

Table 2.5 Existence of price controls – Electricity

	End-user price regulation in 2008					
	Households	Non-households	Number of customers supplied under end-user prices		Consumption supplied under end-user prices (in TWh)	
			Households	Non-households	Households	Non-households
Austria	NO	NO	0	0	0	0
Belgium	NO	NO	NA	NA	NA	NA
Bulgaria	YES	YES	4.292.375	496.151	10,03	10,78
Cyprus	YES	YES	386.489	114.000	1,682	2,873
Czech Republic	NO	NO	0	0	0	0
Denmark	YES	YES	NA	NA	NA	NA
Estonia	YES	YES	527.096	NA	1,845	NA
Finland	NO	NO	NAP	0	0	0
France	YES	YES	29.106.000	4.012.000	137	154
Germany	NO	NO	NAP	NAP	NAP	NAP
Great Britain	NO	NO	0	0	0	0
Greece	YES	YES	5.715.479	NA	18,1	NA
Hungary	YES	YES	5.042.332	257.752	11,46	1,34
Ireland	YES	YES	1.974.757	124.632	9,083	4,49
Italy	YES	YES	27.017.000	5.621.000	59,6	42,5
Latvia	YES	NO	995.000	91.891	1,657	4,385
Lithuania	YES	YES	1.391.429	55.952	2,75	5,9
Luxembourg	NO	NO	NAP	NAP	NAP	NAP
Malta						
Northern Ireland	YES	YES	747	NAP	3,293	1,518
Norway	NO	NO	NAP	NAP	NAP	NAP
Poland	YES	NO	13.342.263	1.224.470	26,9	2,8
Portugal	YES	YES	5.836.057	55.370	18,249	25,659
Romania	YES	YES	8.179.188	593.746	10,372	12,977
Slovak Republic	YES	NO	617.798	0	1,64	0
Slovenia	NO	NO	0	0	0	0
Spain	YES	YES	24.173.317	599.065	76,45	28
Sweden	NO	NO	0	0	0	0
The Netherlands	YES	YES	6.906.000	1.025.000	25,2	12,985

Source: Regulators Data

Table 2.6 Existence of price controls – Gas

	End-user price regulation in 2008					
	Existence of price controls		Number of customers supplied under end-user prices		Consumption supplied under end-user prices (in TWh)	
	Households	Non-households	Households	Non-households	Households	Non-households
Austria	NO	NO	0	0	0	0
Belgium	NO	NO	NA	NA	NA	NA
Bulgaria	YES	YES	3.334	46.187	0,44	3,48
Cyprus	NO	NO	0	0	0	0
Czech Republic	NO	NO	0	0	0	0
Denmark	YES	YES	NA	NA	NA	NA
Estonia	YES	YES	51.306	NA	1,779	NA
Finland	NO	NO	0	0	0	0
France	YES	YES	9.940.000	473.000	133	150
Germany	NO	NO	NAP	NAP	NAP	NAP
Great Britain	NO	NO	0	0	0	0
Greece	YES	YES	187.730	11.390	2,8	2,91
Hungary	YES	YES	3.294.883	208.194	38,175	36,507
Ireland	YES	YES	594.169	21.904	9,111	7,042
Italy	YES	NO	17.597.115	813.686	179,89	28,93
Latvia	NO	NO	433.700	7.900	1,3	14,2
Lithuania	YES	YES	544.400	5.710	1,7	28,6
Luxembourg						
Malta						
Northern Ireland	YES	YES	110.000	5.000	1,172	2,051
Norway						
Poland	YES	YES	6.500.642	57.631	39,74	111,05
Portugal	YES	YES	1.082.930	4353	3,251	26,256
Romania	YES	YES	2.674.407	157.735	28,745	NA
Slovak Republic	YES	NO	1.400.943	73.683	15,149	46,981
Slovenia	NO	NO	0	0	0	0
Spain	YES	NO	3.862.235	0	38,7	0
Sweden	NO	NO	0	0	0	0
The Netherlands	YES	YES	6.559.000	161.000	9081	4013

Source: Regulators Data

3. ELECTRICITY MARKET INDICIATORS

Table 3.1 Degree of concentration

	Electricity (generation)
Very highly concentrated [HHI above 5000]	BE, FR, GR, LV, LU, SK,
Highly concentrated [HHI 1800-5000]	CZ, DE, LT, PT, SI, RO, HU, DK, NO
Moderately concentrated [HHI 750-1800]	FI, PL, UK, ES, IT, NL, AT

Source: Regulators' submissions, DG TREN calculations

(HHI by capacity – sum of squared shares of individual companies)

Table 3.2 Wholesale Market Position Electricity – 2007/2008

ELECTRICITY	Number of companies with more than 5 % share of generation capacity (%)			Share of 3 biggest companies (by capacity) (%)			HHI (by capacity)		
	2007	2008	Δ	2007	2008	Δ	2007	2008	Δ
Austria	5	6	1	51,2	50	-1,2	NAP	NAP	
Belgium	2	2	0	99,9	97,5	-2,4	8390	7206	-1184
Bulgaria	6	6	0	56,4	56,4	0	NA	NA	
Cyprus	1	1	0	100	100	0	1	1	0
Czech Republic	1	1	0	76,85	75,31	-1,54	NA	NA	
Denmark	2	2	0	75	75	0	NA	NA	
Estonia	1	1	0	99	99	0	NAP	NAP	
Finland	4	4	0	68	68	0	NA	NA	
France	1	1	0	93	93	0	6960	NA	
Germany	4	4	0	85,4	84,7	-0,7	NA	2008	
Great Britain	8	8	0	41	42	1	986	901	-85
Greece	1	1	0	NA	NA		10000	10000	0
Hungary	5	5	0	67	67,9	0,9	2119	1911	-208
Ireland	5	4	-1	71	86	15	NA	NA	
Italy	5	5	0	61,2	57,6	-3,6	2126	1351	-775
Latvia	1	1	0	93	94	1	8110	8110	0
Lithuania	3	3	0	84	85	1	3160	3095	-65
Luxembourg	3	3	0	80	79	-1	5843	5682	-161
Malta						0			
Northern Ireland	NAP	4		NAP	86		NAP	4096	
Norway	6	6	0	40	43	3	NA	1826	
Poland	5	5	0	50,9	52,5	1,6	1312,7	1363,3	50,6
Portugal	2	2	0	72,5	72,2	-0,3	4472	4521	49
Romania	5	5	0	63,7	70,98	7,28	1813	2116	303
Slovak Republic	1	1	0	85,2	83,9	-1,3	6930	5019,922	-1910,08
Slovenia	3	3	0	92,7	92,5	-0,2	7208	4369	-2839
Spain	5	5	0	76	72,9	-3,1	1827	1716	-111
Sweden	3	3	0	78	74,7	-3,3	NA	NA	
The Netherlands	6	4	-2	61	69,9	8,9	1592	1551	-41

Source: Regulators data, Δ calculations DG TREN

Table 3.3 Spot traded volumes as percentage of national electricity consumption

	consumption (TWh)		electr traded (PX - spot) TWh		volume % of consumption			Number of traders active at PX		
	2007	2008	2007	2008	2007	2008	Δ	2007	2008	Δ
Poland	153,1	152,5	2,46	2,11	1,61	1,38	-0,22	NA	33	NAP
Czech Republic	72	72	0,5	1,36	0,69	1,89	1,19	29	29	0
Great Britain	350,08	351,37	16,5	11,4	4,71	3,24	-1,47	60	62	2
Romania	54,126	55,206	5,043	5,208	9,32	9,43	0,12	99	87	-12
France	480,3	494,5	44,2	51,6	9,20	10,43	1,23	68	70	2
The Netherlands	112	119	20,7	24,826	18,48	20,86	2,38	NA	65	NAP
Germany	569,2	569	122,26	152,1	21,48	26,73	5,25	192	203	11
Lithuania	9,1	9,8	2	3,7	21,98	37,76	15,78	5	5	0
Finland	90,3	86,9	41,4	43,6	45,85	50,17	4,33	NAP	NAP	NAP
Spain	276,3	279,9	163,7	141,6	59,25	50,59	-8,66	25	25	0
Norway	125,8	127,4	71,1	77,5	56,52	60,83	4,31	130	133	3
Italy	339,9	339,5	221,3	232,6	65,11	68,51	3,41	89	106	17
Sweden	157,4	155	134,3	132,7	85,32	85,61	0,29	150	NA	NAP
Portugal	50,05	50,574	21,839	47,144	43,63	93,22	49,58	2	2	0
Denmark	35,7	36,2	35,4	34,7	99,16	95,86	-3,30	9	9	0
Greece	55,25	55,68	58,4	58,83	105,70	105,66	-0,04	27	38	11
Ireland	28,9	27	6,44	36,51	22,28	135,22	112,94	NAP	NAP	NAP
Northern Ireland	NAP	9,6	NAP	36,51		380,31		NAP	NAP	NAP

Source: Regulators data, Δ calculations DG TREN

Sorted by 2008 % volume of consumption

Notes:

BE: In 2007, 7,6 TWh was traded on Belpex DAM (which is about 8,5% of the Belgian consumption). The bought volume amounts to 6,8 TWh, whereas the sold volume is 4,9 TWh. These figures differ because Belpex DAM is coupled with Powernext and APX.

BG: There is no power exchange - spot in Bulgaria.

DK: Total trade on Nord Pool in physical spot market in 2004: 167 TWh. Denmark contributes with 19,2 TWh corresponding to 11,5% of the total. Total trade on Nord Pool in physical spot market in 2005: 176 TWh. Denmark contributes with 25,7 TWh corresponding to 14,6% of the total. Total trade on Nord Pool in physical spot market in 2006: 250 TWh. Denmark contributes with 34,4 TWh corresponding to 13,8% of the total. Total trade on Nord Pool in physical spot market in 2007: 291 TWh. Denmark contributes with 35,4 TWh corresponding to 12,2% of the total.

FI: Not relevant due to Nordic markets.

FR: Source: Powernext Day-ahead.

DE: 2007: Day-ahead spot market for the market area of Germany/ Austria 117,93 TWh; market area Switzerland 4,33 TWh; 2008: Day-ahead spot market for the market area of Germany/ Austria 145.94 TWh; market area Switzerland 6.16 TWh; source: EEX.

GR: Calculated as the sum of generated energy plus imports.

HU: There is no power exchange in Hungary (although the HUPX Hungarian Power Exchange Closed Company Limited by Shares has been established in 2007).

IE: The Single Electricity Market for the island of Ireland is a gross mandatory pool, therefore all energy goes through the pool. The market started on the 1st November 2007 and the 2007 figure above represents energy for Nov and Dec 2007. The 2008 figure represents Jan - Dec 2008. The Single Electricity Market is not a power exchange.

LU: No power exchange in Luxembourg.

Northern Ireland: 2008 - The Market for the Island of Ireland is a gross mandatory pool, therefore all energy goes through the pool.

PT: Only the period 2008/07/01-2008/12/31; Includes day-ahead and intraday demand.

ES: Besides, in 2006, 104 TWh were negotiated in bilateral contracts out of the PX spot market, and 59 TWh were cleared at the PX over the counter.

The amount of bilateral contracts negotiated out of the PX (104 TWh) was a temporary consequence of the (already revoked) Royal Decree Law 3/2006 (see National Report 2007). Excludes trading on bilateral, VPPs and CESUR contracts.

SE: The values show the total purchased volume in the Swedish Elspot Bid Area.

Table 3.4 Retail Market position Electricity – 2007/2008

ELECTRICITY	Number of nationwide suppliers	Companies with market share over 5% in the whole retail market (%)			Market share of three largest companies in whole retail market (%)		
	2008	2007	2008	Δ	2007	2008	Δ
Austria	10	7	6	-1	64	62	-2
Belgium	12	4	NA	1	NA	NA	NA
Bulgaria	1	3	3	0	97,5	97,5	0
Cyprus	1	1	1	0	100	100	0
Czech Republic	310	3	3	0	99	99	0
Denmark	16	7	7	0	NA	NA	
Estonia	3	1	1	0	99	99	0
Finland	25	4	4	0	40	40	0
France	17	1	1	0	94	97	3
Germany	17	3	3	0	46,1	52	5,9
Great Britain	17	NA	NA		NA	NA	
Greece	37	1	1	0	100	100	0
Hungary	78	4	4	0	87,18	80,73	-6,45
Ireland	9	4	4	0	85	84	-1
Italy	23	3	3	0	60	59	-1
Latvia	2	1	1	0	100	100	0
Lithuania	2	1	1	0	100	100	0
Luxembourg	7	3	4	1	93	94	1
Malta							
Northern Ireland	18	NAP	4		NAP	90	
Norway	26	5	5	0	31,2	36	4,8
Poland	19	6	6	0	44,9	44,3	-0,6
Portugal	4	2	2	0	99,6	99,6	0
Romania	138	5	5	0	44	48	4
Slovak Republic	176	3	3	0	35	60	25
Slovenia	13	7	7	0	68	58	-10
Spain	75	4	4	0	83,9	84,8	0,9
Sweden	104	3	3	0	NA	NA	
The Netherlands	21	4	4	0	NA	NA	

Source: Regulators data, Δ calculations DG TREN

4. GAS MARKET INDICIATORS

Table 4.1 Market Structure in Import and Production of Gas

GAS	Number of companies with more than 5 % share of available gas (%) ¹⁰			Share of 3 biggest companies by available gas (%)			HHI
	2006	2008	Δ	2007	2008	Δ	2008
Austria	4	4	0	80	86	6	4290
Belgium	2	4	2	99,4	92	-7,4	5438
Bulgaria	1	1	0	32,47	89	56,53	NAP
Cyprus	NAP	NAP		NAP	NAP		NAP
Czech Republic	1	2	1	NA	NA		NA
Denmark	3	3	0	NA	NA		NA
Estonia	2	2	0	99	99	0	NA
Finland	1	1	0	100	100	0	NAP
France	2	2	0	88,97	88	-0,97	6324
Germany	NA	7		58,65	61,82	3,17	1706
Great Britain	NA	NA		28	NA		NA
Greece	1	1	0	100	100	0	10000
Hungary	4	4	0	92,8	86,9	-5,9	3066
Ireland	NA	5		NA	81,64		2499
Italy	3	3	0	86,7	85,2	-1,5	4336
Latvia	1	1	0	100	100	0	10000
Lithuania	2	2	0	100	100	0	5800
Luxembourg	1	2	1	100	100	0	9057
Malta							
Northern Ireland	NAP	5		NAP	82,7		10000
Norway							
Poland	1	1	0	100	100	0	951
Portugal	0	0	0	0	0	0	NAP
Romania	4	3	-1	74	83,19	9,19	NAP
Slovak Republic	1	1	0	100	100	0	10000
Slovenia	1	2	1	100	100	0	8981
Spain	4	4	0	75	66	-9	1887
Sweden	5	NA		NA	NA		NA
The Netherlands	4	1	-3	NA	87,8		6841,24

Source: Regulators data, Δ calculations DG TREN

¹⁰ Note: No answer to this question was required in 2007

Table 4.2 Structure of Gas retail market

GAS	Number of nationwide suppliers	Companies with market share over 5% in the whole retail market (%)			Market share of three largest companies in whole retail market (%)		
	2008	2007	2008	Δ	2007	2008	Δ
Austria	5	5	5	0	NA	80	
Belgium	8	NA	NA	0	92,3	NA	
Bulgaria	32	5	4	-1	32,47	12,87	-19,6
Cyprus	1	NAP	NAP		NAP	NAP	
Czech Republic	14	7	8	1	NA	47,35	
Denmark	2	4	4	0	NA	NA	
Estonia	0	1	1	0	99	99	0
Finland	1	6	6	0	NA	NA	
France	13	3	2	-1	98,5	NA	
Germany	NA	4	4	0	26,3	35,2	8,9
Great Britain	24	NA	NA		72	72	0
Greece	1	1	1	0	100	100	0
Hungary	14	7	7	0	75	72,6	-2,4
Ireland	5	2	2	0	100	100	0
Italy	4	3	4	1	66,5	63,4	-3,1
Latvia	2	1	1	0	100	100	0
Lithuania	2	2	2	0	100	100	0
Luxembourg		4			88,5		
Malta							
Northern Ireland	0	NAP	4		NAP	86	
Norway							
Poland	1	1	1	0	100	100	0
Portugal	0	0	0	0	0	0	0
Romania	24	4	6	2	83	59,11	-23,89
Slovak Republic	1	1	1	0	100	100	0
Slovenia	3	2	4	2	86	82	-4
Spain	34	5	5	0	74	71	-3
Sweden	0	5	5	0	NA	NA	
The Netherlands	14	4	3	-1	NA	NA	

Source: Regulators data, Δ calculations DG TREN

5. PRICE DEVELOPMENTS

Figure 5.1 Electricity prices for household consumers (2009 s01) in €/100kWh¹¹

Source: Eurostat

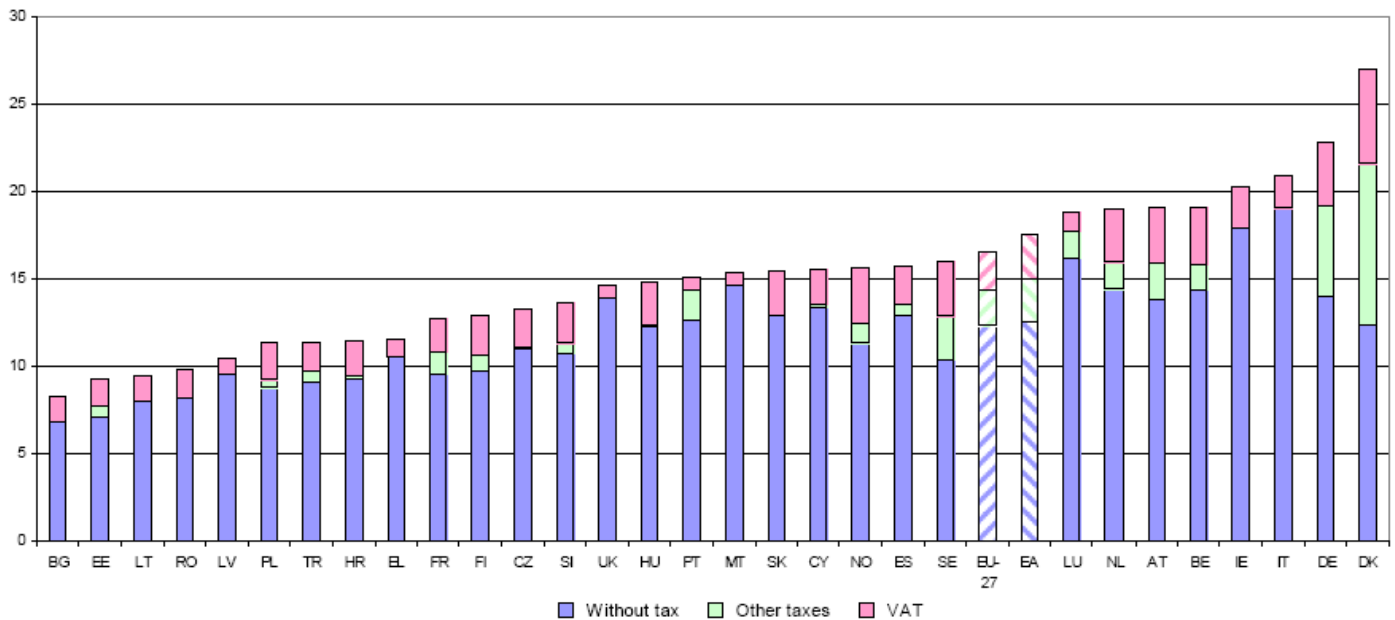
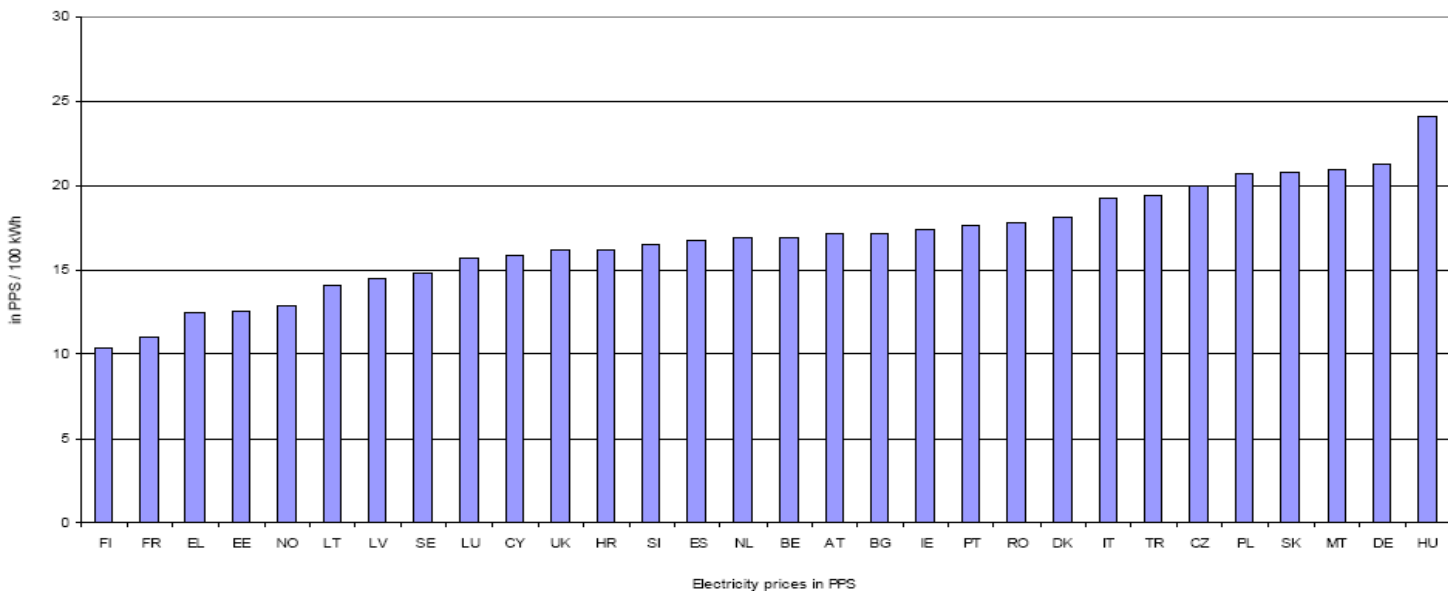


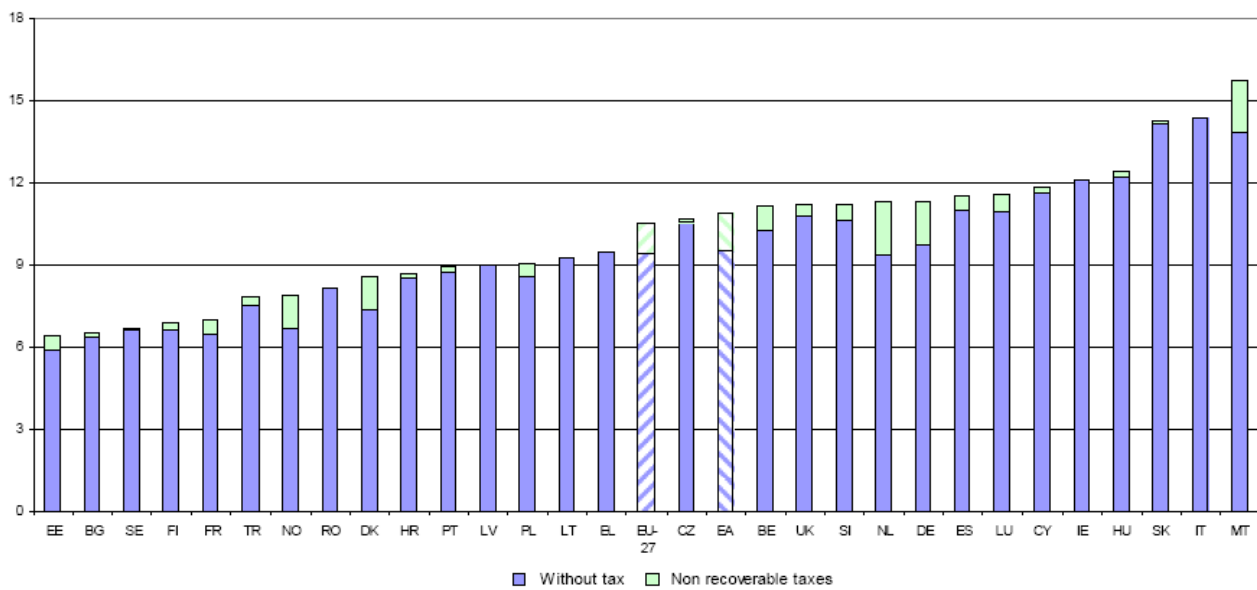
Figure 5.2 Electricity prices for household consumers (2009 s01) in PPP



Source: Eurostat

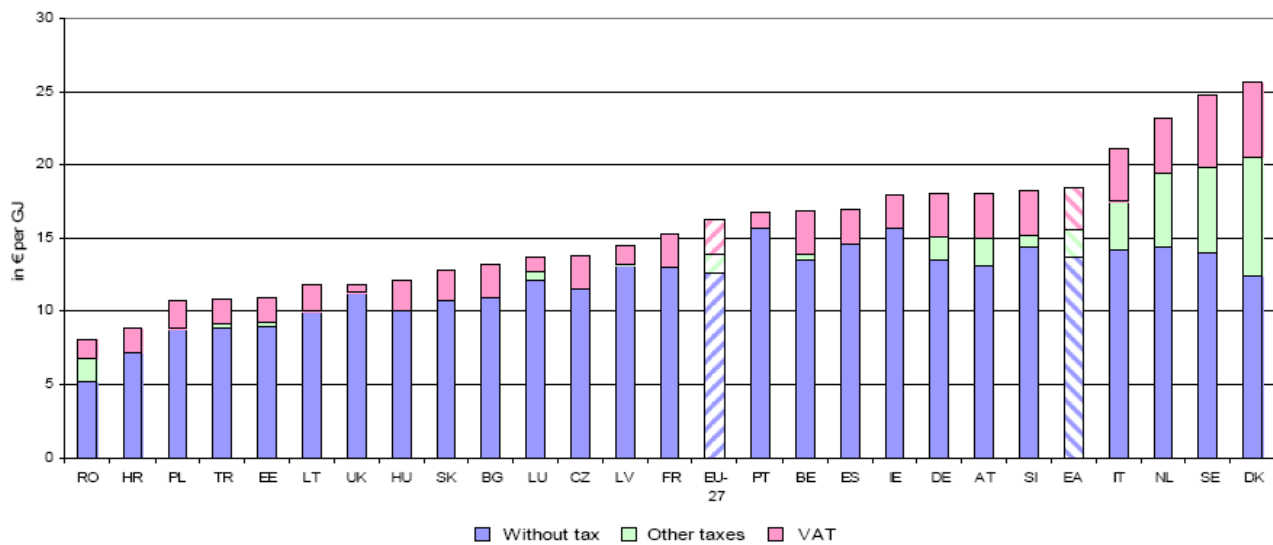
¹¹ 'Household consumers' refer to consumer band Dc (annual consumption between 2500 and 5000 kWh).

Figure 5.3 Electricity prices for industrial consumers (2009 s01) ¹²



Source: Eurostat

Figure 5.4 Gas prices for household consumers (2009 s01) in €/GJ ¹³



Source: Eurostat

¹² 'Industrial consumers' refer to consumer band Ic (annual consumption between 500 and 2000 MWh).

¹³ 'Household consumers' refer to consumer band D2 (annual consumption between 20 and 200 GJ).

Figure 5.5 Gas prices for household consumers (2009 s01) in PPP

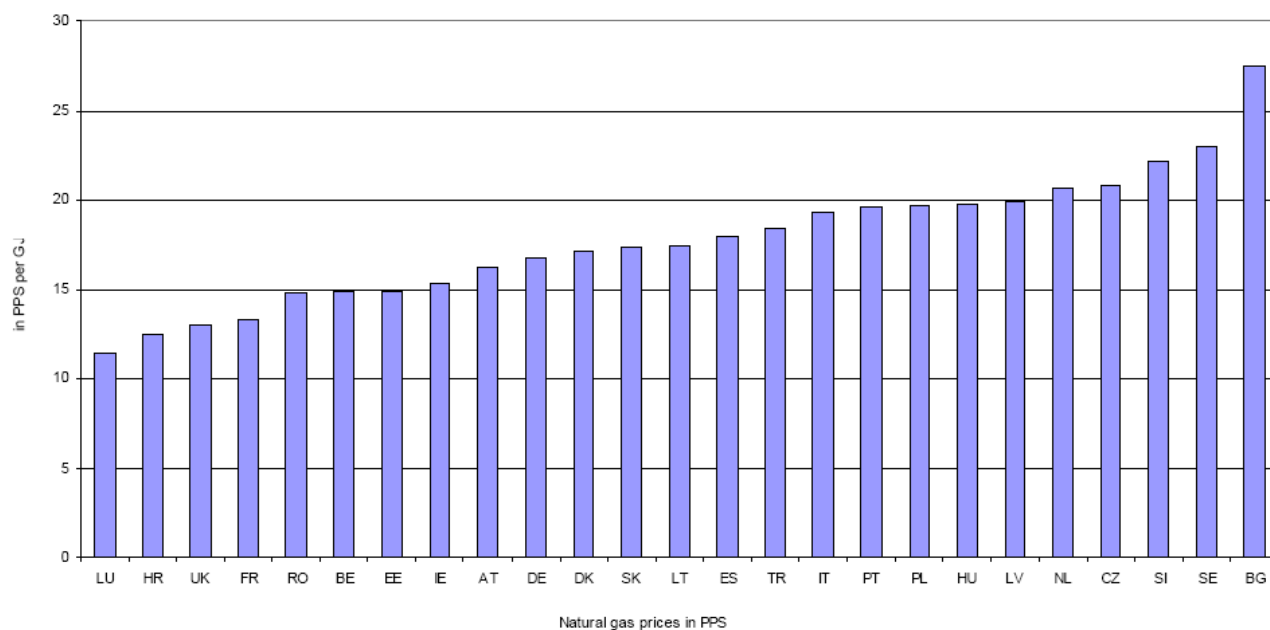
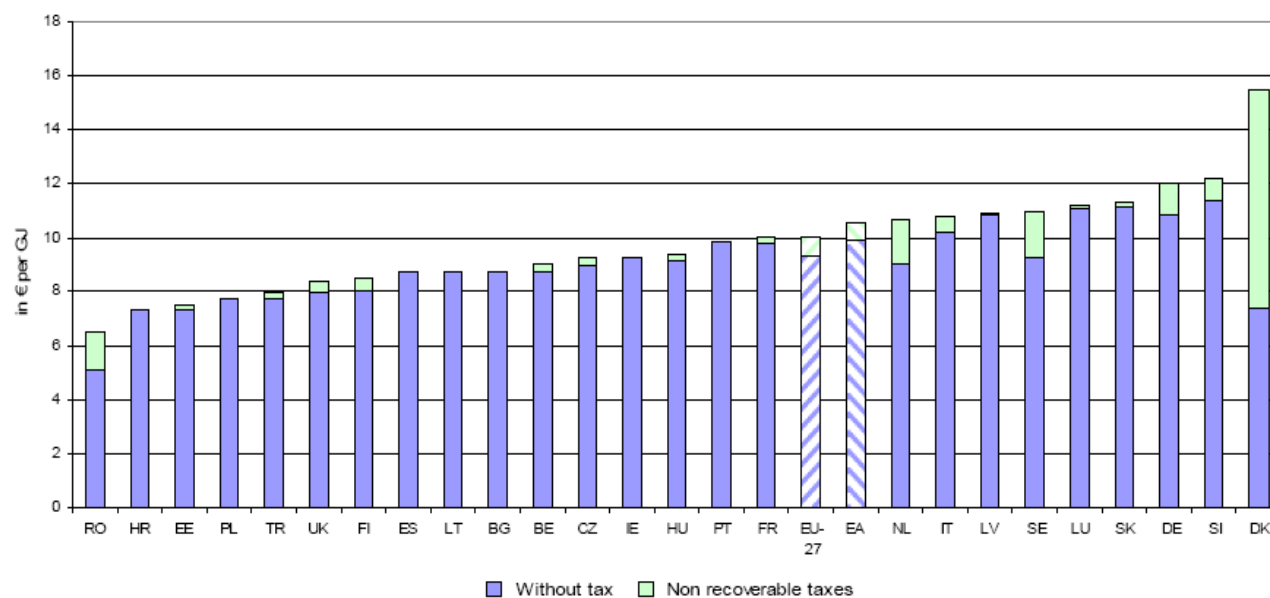


Figure 5.6 Gas prices for industrial consumers (2009 s01) ¹⁴



Source: Eurostat

¹⁴ 'Industrial consumers' refer to consumer band I3 (annual consumption between 10 000 and 100 000 GJ).

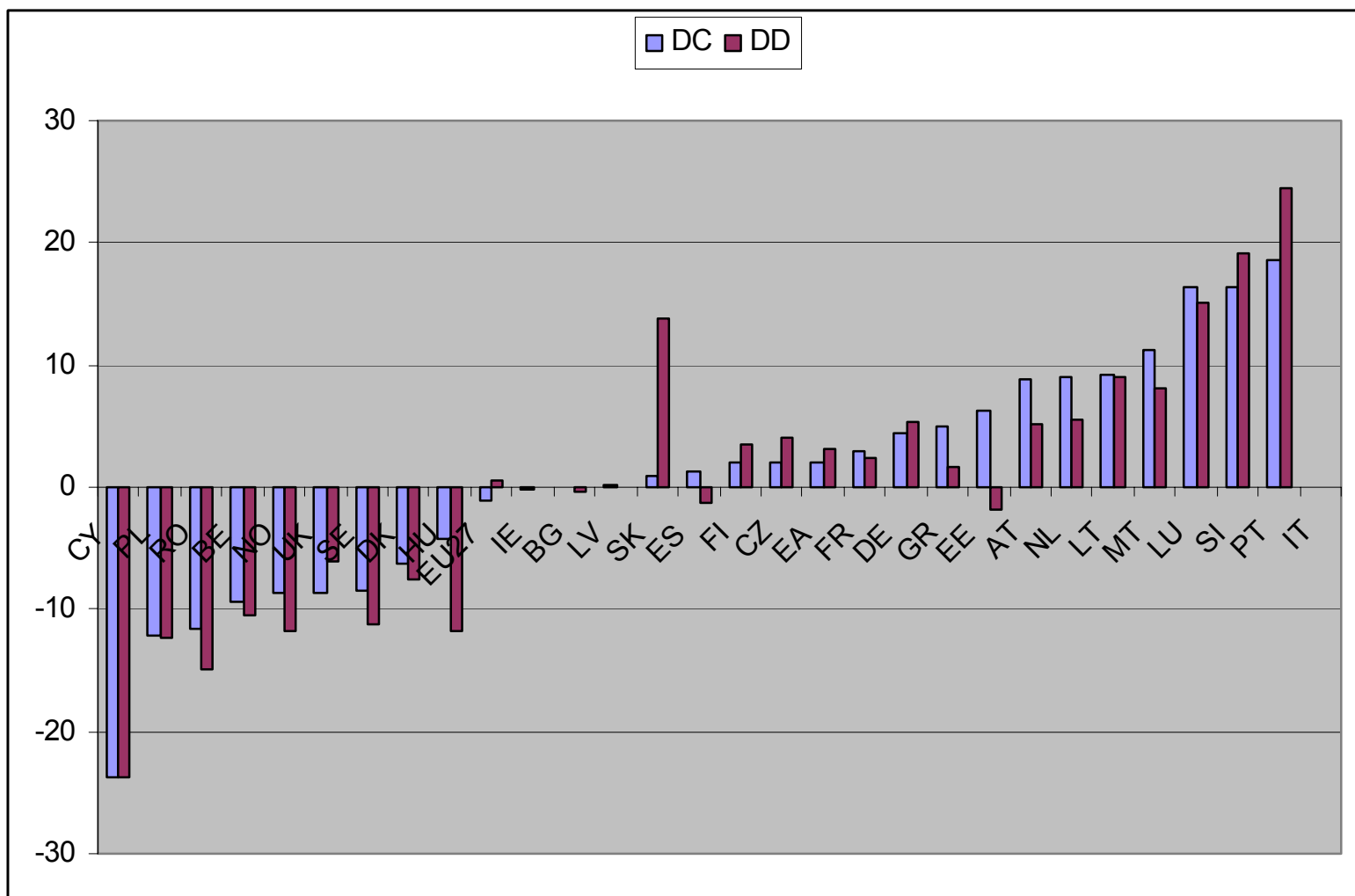
Table 5.7 Increase electricity price household consumers 2008 s02 – 2009 s01

(Prices in €/kWh, end prices without taxes) – sorted by Δ %

Band DC: 2 500 kWh < Consumption < 5 000 kWh				Band DD: 5 000 kWh < Consumption < 15 000 kWh			
	2008 s02	2009 s01	Δ %		2008 s02	2009 s01	Δ %
CY	0,1754	0,1336	-23,83	CY	0,1809	0,1379	-23,77
PL	0,1005	0,0883	-12,14	RO	0,0921	0,0783	-14,98
RO	0,0920	0,0814	-11,52	PL	0,0951	0,0834	-12,30
BE	0,1578	0,1431	-9,32	HU	0,1262	0,1113	-11,81
NO	0,1237	0,1131	-8,57	NO	0,0898	0,0793	-11,69
UK	0,1530	0,1399	-8,56	SE	0,0954	0,0847	-11,22
SE	0,1137	0,1040	-8,53	BE	0,1402	0,1255	-10,49
DK	0,1323	0,1239	-6,35	DK	0,1156	0,1068	-7,61
HU	0,1281	0,1227	-4,22	UK	0,1334	0,1253	-6,07
EU27	0,1249	0,1236	-1,04	MT	0,1719	0,1686	-1,92
IE	0,1791	0,1789	-0,11	ES	0,1219	0,1203	-1,31
BG	0,0685	0,0685	0,00	IE	0,1625	0,1619	-0,37
LV	0,0956	0,0957	0,10	BG	0,0680	0,0680	0,00
SK	0,1283	0,1294	0,86	LV	0,0954	0,0954	0,00
ES	0,1277	0,1294	1,33	EU27	0,1150	0,1157	0,61
FI	0,0955	0,0974	1,99	GR	0,1233	0,1253	1,62
CZ	0,1080	0,1102	2,04	FR	0,0808	0,0827	2,35
EA	0,1233	0,1259	2,11	CZ	0,0886	0,0914	3,16
FR	0,0931	0,0959	3,01	FI	0,0823	0,0852	3,52
DE	0,1341	0,1401	4,47	EA	0,1156	0,1202	3,98
GR	0,1005	0,1055	4,98	EE	0,0649	0,0682	5,08
EE	0,0670	0,0712	6,27	DE	0,1207	0,1272	5,39
AT	0,1268	0,1380	8,83	AT	0,1196	0,1263	5,60
NL	0,1320	0,1440	9,09	LT	0,0697	0,0754	8,18
LT	0,0732	0,0799	9,15	NL	0,1220	0,1330	9,02
MT	0,1463	0,1627	11,21	SK	0,1095	0,1247	13,88
LU	0,1391	0,1619	16,39	LU	0,1283	0,1476	15,04
SI	0,0919	0,1070	16,43	SI	0,0870	0,1036	19,08
PT	0,1066	0,1264	18,57	PT	0,0921	0,1146	24,43
IT	:	:	:	IT	:	:	:

Source: Eurostat; Δ calculation by DG TREN

Figure 5.8 % increase electricity price household consumers 2008 s02 – 2009 s01



Δ % sorted on DC

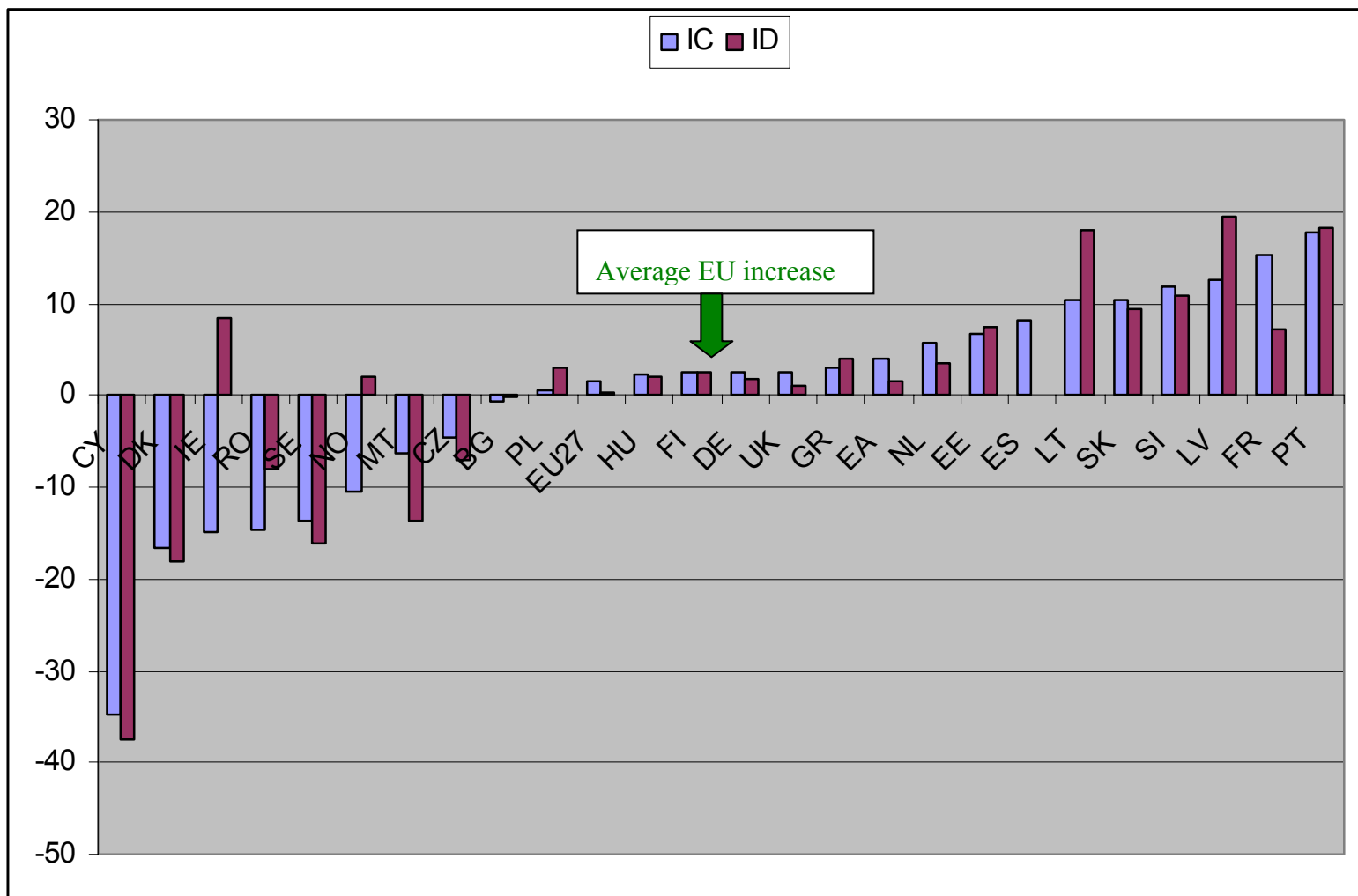
Table 5.9 Increase in electricity prices for industrial consumers 2008 s02 – 2009 s01

(Prices in €/kWh, end prices without taxes) – sorted by Δ %

Band IC: 500 MWh < Consumption < 2 000 MWh				Band ID: 2 000 MWh < Consumption < 20 000 MWh			
	2008 s02	2009 s01	Δ %		2008 s02	2009 s01	Δ %
CY	0,1785	0,1164	-34,79	CY	0,1694	0,1061	-37,37
DK	0,0885	0,0738	-16,61	DK	0,0885	0,0725	-18,08
IE	0,1419	0,1206	-15,01	IE	0,1276	0,1070	-16,14
RO	0,0950	0,0811	-14,63	SE	0,0681	0,0587	-13,80
SE	0,0768	0,0662	-13,80	RO	0,0799	0,0734	-8,14
NO	0,0748	0,0669	-10,56	MT	0,1323	0,1230	-7,03
MT	0,1619	0,1516	-6,36	CZ	0,0930	0,0929	-0,11
CZ	0,1108	0,1057	-4,60	BG	0,5880	0,5880	0,00
BG	0,0644	0,0639	-0,78	EU27	0,0833	0,0836	0,36
PL	0,0853	0,0857	0,47	UK	0,0975	0,0986	1,13
EU27	0,0926	0,0941	1,62	DE	0,0831	0,0843	1,44
HU	0,1195	0,1221	2,18	HU	0,1064	0,1083	1,79
FI	0,0647	0,0663	2,47	EA	0,0823	0,0839	1,94
DE	0,0951	0,0975	2,52	NO	0,0554	0,0565	1,99
UK	0,1050	0,1077	2,57	FI	0,0616	0,0631	2,44
GR	0,0920	0,0948	3,04	PL	0,0738	0,0761	3,12
EA	0,0915	0,0951	3,93	NL	0,0850	0,0880	3,53
NL	0,0890	0,0940	5,62	GR	0,0798	0,0829	3,88
EE	0,0550	0,0587	6,73	ES	0,0847	0,0907	7,08
ES	0,1016	0,1098	8,07	EE	0,0472	0,0507	7,42
LT	0,0838	0,0924	10,26	SK	0,1164	0,1263	8,51
SK	0,1283	0,1416	10,37	SI	0,0770	0,0842	9,35
SI	0,0951	0,1063	11,78	LT	0,0704	0,0781	10,94
LV	0,0796	0,0896	12,56	PT	0,0704	0,0830	17,90
FR	0,0561	0,0647	15,33	FR	0,0501	0,0592	18,16
PT	0,0781	0,0919	17,67	LV	0,0711	0,0849	19,41
LU	0,0927	0,1096	18,23	BE	:	0,0928	:
BE	:	0,1026	:	IT	:	:	:
IT	:	:	:	LU	:	0,0858	:
AT	0,0905	:	:	AT	0,0813	:	:

Source: Eurostat; Δ calculation by DG TREN

Figure 5.10 % increase in electricity prices for industrial consumers 2008 s02 – 2009 s01



Δ % sorted on IC

Band IE: 20 000 MWh < Consumption < 70 000 MWh			
	2008 s02	2009 s01	Δ %
CY	0,1518	0,0983	-35,24
DK	0,0845	0,0658	-22,13
IE	0,1150	0,0967	-15,91
SE	0,0615	0,0522	-15,12
NO	0,0512	0,0474	-7,42
SI	0,0627	0,0595	-5,10
FI	0,0543	0,0520	-4,24
RO	0,0683	0,0663	-2,93
EA	0,0771	0,0757	-1,82
EU27	0,0780	0,0769	-1,41
DE	0,0798	0,0788	-1,25
PL	0,0705	0,0709	0,57
GR	0,0724	0,0739	2,07
UK	0,0953	0,0974	2,20
BG	0,0511	0,0527	3,13
CZ	0,0825	0,0862	4,48
NL	0,0840	0,0880	4,76
EE	0,0394	0,0419	6,35
ES	0,0743	0,0794	6,86
SK	0,0986	0,1097	11,26
LT	0,0661	0,0741	12,10
PT	0,0579	0,0650	12,26
HU	0,0964	0,1108	14,94
FR	0,0514	0,0611	18,87
LV	0,0686	0,0823	19,97
BE	:	0,0856	:
IT	:	:	:
LU	:	:	:
MT	:	:	:
AT	0,0794	:	:

Band IF: 70 000 MWh < Consumption < 150 000 MWh			
	2008 s02	2009 s01	Δ %
CY	0,1530	0,0985	-35,62
DK	0,0845	0,0658	-22,13
SE	0,0618	0,0491	-20,55
NO	0,0342	0,0298	-12,87
IE	0,1004	0,0879	-12,45
GR	0,0664	0,0627	-5,57
SI	0,0741	0,0709	-4,32
FI	0,0536	0,0517	-3,54
EU27	0,0744	0,0728	-2,15
EA	0,0728	0,0714	-1,92
UK	0,0967	0,0952	-1,55
ES	0,0690	0,0692	0,29
SK	0,0937	0,0945	0,85
CZ	0,0841	0,0859	2,14
DE	0,0755	0,0779	3,18
BG	0,0450	0,0465	3,33
PL	0,0667	0,0690	3,45
LV	0,0684	0,0729	6,58
RO	0,0548	0,0593	8,21
HU	0,0874	0,0956	9,38
NL	0,0820	0,0900	9,76
FR	0,0465	0,0516	10,97
EE	0,0362	0,0405	11,88
PT	0,0505	0,0610	20,79
BE	:	0,0789	:
IT	:	:	:
LT	:	:	:
LU	:	:	:
MT	:	:	:
AT	0,0735	:	:

Source: Eurostat

Δ calculation by DG TREN

Table 5.11 Increase gas prices household consumers 2008 s02 – 2009 s01

(Prices in €/Gigajoules, end prices without taxes) – sorted by Δ %

Band D1: Consumption < 20 GJ			
	2008 s02	2009 s01	Δ %
PL	14,7528	11,8108	-19,94
SE	22,2253	18,0466	-18,80
RO	6,1610	5,2951	-14,05
IT	17,7570	15,2880	-13,90
BE	22,8800	19,7900	-13,51
FR	27,7450	24,2100	-12,74
SI	19,9400	17,8700	-10,38
EA	21,9768	20,0224	-8,89
EU27	19,0010	17,3600	-8,64
DE	22,9700	21,0700	-8,27
UK	13,4520	12,6314	-6,10
DK	13,1277	12,3959	-5,57
ES	18,6810	17,6400	-5,57
CZ	17,6629	16,7918	-4,93
IE	17,3600	16,9100	-2,59
PT	21,4060	20,8700	-2,50
HU	11,4258	11,2107	-1,88
EE	9,3427	9,3048	-0,41
SK	22,8942	23,3480	1,98
AT	15,4800	16,0200	3,49
NL	20,0580	20,8200	3,80
LV	18,3799	20,2039	9,92
LU	16,7900	19,0800	13,64
BG	9,6585	11,0287	14,19
LT	12,8454	16,2928	26,84

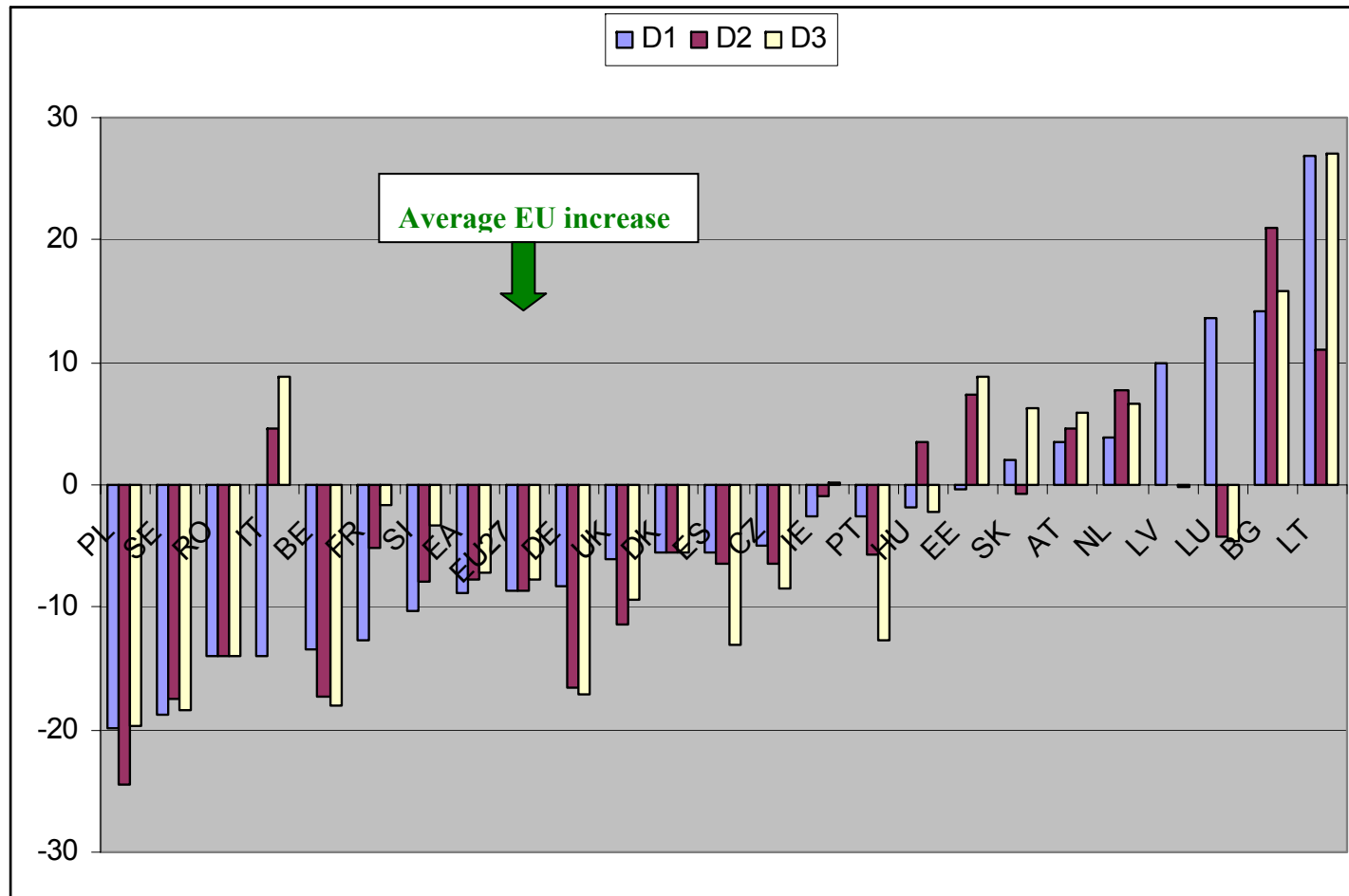
Band D2: 20 GJ < Consumption < 200 GJ			
	2008 s02	2009 s01	Δ %
PL	11,7191	8,8525	-24,46
SE	16,9480	13,9953	-17,42
BE	16,3700	13,5400	-17,29
DE	16,1400	13,4800	-16,48
RO	6,1445	5,2832	-14,02
UK	12,7323	11,2776	-11,43
EU27	13,8443	12,6553	-8,59
SI	15,6800	14,4400	-7,91
EA	14,8054	13,6706	-7,66
CZ	12,3418	11,5531	-6,39
ES	15,6360	14,6400	-6,37
PT	16,6450	15,6800	-5,80
DK	13,1277	12,3959	-5,57
FR	13,7090	13,0100	-5,10
LU	12,7300	12,1900	-4,24
IE	15,9000	15,7600	-0,88
SK	10,8599	10,7810	-0,73
LV	13,2013	13,2097	0,06
HU	10,7727	11,1477	3,48
AT	12,5500	13,1300	4,62
IT	13,5540	14,1850	4,66
EE	8,3818	8,9926	7,29
NL	13,4050	14,4330	7,67
LT	9,0050	9,9989	11,04
BG	9,0500	10,9469	20,96

Band D3: Consumption > 200 GJ			
	2008 s02	2009 s01	Δ %
PL	10,5599	8,4861	-19,64
SE	16,2376	13,2587	-18,35
BE	15,3500	12,5700	-18,11
DE	14,6000	12,0900	-17,19
RO	6,1174	5,2596	-14,02
ES	13,5640	11,7800	-13,15
PT	15,2840	13,3300	-12,78
UK	11,1731	10,1141	-9,48
CZ	12,3891	11,3397	-8,47
EU27	12,4034	11,4336	-7,82
EA	13,2113	12,2748	-7,09
DK	13,1277	12,3959	-5,57
LU	11,7400	11,2000	-4,60
SI	14,7400	14,2600	-3,26
HU	11,0929	10,8535	-2,16
FR	12,0630	11,8700	-1,60
LV	12,9183	12,8840	-0,27
IE	15,1400	15,1600	0,13
AT	10,9000	11,5400	5,87
SK	10,1501	10,7920	6,32
NL	12,5940	13,4300	6,64
EE	8,2393	8,9688	8,85
IT	11,5320	12,5560	8,88
BG	9,6891	11,2281	15,88
LT	7,5341	9,5771	27,12

Source: Eurostat

Δ calculation by DG TREN

Figure 5.12 % increase in gas prices for industrial consumers 2008 s02 – 2009 s01



Δ % sorted on D1

Table 5.13 Increase in gas prices for industrial consumers 2008 s02 – 2009 s01

(Prices in €/Gigajoules, end prices without taxes) – sorted by Δ %

Band I1: Consumption < 1 000 GJ			
	2008 s02	2009 s01	Δ %
PL	12,3044	9,0022	-26,84
LT	12,9240	9,6047	-25,68
SE	16,5421	12,5221	-24,30
ES	10,5630	8,2600	-21,80
BE	15,8400	12,4500	-21,40
HU	13,2659	11,1544	-15,92
DE	14,3200	12,0700	-15,71
RO	6,1182	5,2832	-13,65
EU27	12,4641	11,4999	-7,74
EA	12,9258	11,9646	-7,44
CZ	11,9708	11,1540	-6,82
DK	13,1318	12,3959	-5,60
SI	16,2500	15,3600	-5,48
IE	15,1500	14,4000	-4,95
FR	12,4380	12,1800	-2,07
UK	11,6638	11,5238	-1,20
EE	9,9971	8,9301	0,50
SK	13,8669	14,0990	1,67
LV	12,8334	13,2380	3,15
IT	12,1360	12,5300	3,25
LU	12,6900	13,2000	4,02
PT	13,7780	14,6600	6,40
NL	12,6400	13,7930	9,12
BG	8,0632	9,6942	20,23
AT	:	:	:
FI	:	:	:

Band I2: 1 000 GJ < Consumption < 10 000 GJ			
	2008 s02	2009 s01	Δ %
LT	12,6915	9,3088	-26,65
SE	14,7154	11,1410	-24,29
PL	10,7579	8,4995	-20,99
IE	12,7000	10,5100	-17,24
DE	13,7000	11,7100	-14,53
RO	6,1234	5,2383	-14,45
BE	12,5900	10,8100	-14,14
ES	9,6860	8,3300	-14,00
HU	12,7073	10,9976	-13,45
SI	15,7800	13,9600	-11,53
EE	9,3179	8,3436	-10,46
CZ	11,0601	10,0409	-9,22
SK	13,1475	12,0980	-7,98
EU27	11,3924	10,5756	-7,17
EA	11,9783	11,2155	-6,37
DK	13,1318	12,3959	-5,60
UK	9,3017	8,9057	-4,26
FR	11,2760	11,0100	-2,36
LV	12,1259	12,0204	-0,87
IT	11,8990	12,1880	2,43
NL	10,9970	11,4740	4,34
LU	11,3800	12,1600	6,85
PT	11,0790	12,0100	8,40
BG	7,9354	9,3977	18,43
AT	:	:	:
FI	:	:	:

Band I3: 10 000 GJ < Consumption < 100 000 GJ			
	2008 s02	2009 s01	Δ %
LT	12,1420	8,7301	-28,10
SE	12,8886	9,2995	-27,85
RO	6,3579	5,0966	-19,84
PL	9,3301	7,7331	-17,12
BE	10,4800	8,7300	-16,70
DK	8,8126	7,3820	-16,23
IE	10,9900	9,3000	-15,38
CZ	10,6050	8,9816	-15,31
EE	8,5652	7,3011	-14,76
DE	12,6900	10,8600	-14,42
SK	12,9417	11,1200	-14,08
HU	11,4110	10,0444	-11,98
EU27	10,3172	9,3464	-9,41
FI	8,8000	8,0000	-9,09
EA	10,8635	9,8971	-8,90
FR	10,6060	9,7600	-7,98
IT	10,8220	10,1660	-6,06
SI	11,8700	11,3400	-4,47
ES	9,0340	8,7300	-3,37
UK	8,2369	7,9883	-3,02
NL	9,1470	9,0190	-1,40
LV	10,9940	10,8594	-1,22
LU	11,1900	11,0800	-0,98
PT	9,2130	9,8100	6,48
BG	7,4292	8,7432	17,69
AT	:	:	:

Source: Eurostat Δ calculation by DG TREN

Band I4: 100 000 GJ < Consumption < 1 000 000 GJ			
	2008 s02	2009 s01	Δ %
LT	10,6677	7,1847	-32,65
SE	10,5545	7,5501	-28,47
RO	6,3706	4,7587	-25,30
CZ	9,8805	8,1367	-17,65
DK	8,0883	6,6812	-17,40
PL	8,2896	6,9176	-16,55
SK	11,8978	9,9400	-16,46
HU	10,1143	8,6338	-14,64
DE	10,2300	8,8400	-13,59
FR	9,4550	8,2300	-12,96
EU27	9,2423	8,0950	-12,41
BE	9,1200	8,0300	-11,95
EA	9,5826	8,4892	-11,41
IT	10,2180	9,0620	-11,31
EE	7,7489	6,9133	-10,78
ES	8,4400	7,5300	-10,78
UK	7,9921	7,1380	-10,69
FI	8,4000	7,7000	-8,33
NL	8,8590	8,2810	-6,52
IE	9,0700	8,7200	-3,86
LV	10,5837	10,3356	-2,34
PT	7,2410	7,1000	-1,95
LU	6,9500	7,3500	5,76
BG	6,8821	8,1399	18,28
AT	:	:	:
SI	10,8400	:	:

Band I5: 1 000 000 GJ < Consumption < 4 000 000 GJ			
	2008 s02	2009 s01	Δ %
EU27	:	:	:
EA	:	:	:
BE	8,8100	6,4200	-27,13
FR	9,1470	7,0900	-22,49
UK	7,3679	5,7619	-21,80
RO	6,3894	5,1580	-19,27
CZ	9,6794	7,8349	-19,06
PL	7,4923	6,1691	-17,66
HU	9,8519	8,1868	-16,90
NL	8,3110	7,0980	-14,60
DE	9,0000	7,7000	-14,44
SK	11,1775	9,7840	-12,47
ES	7,6220	6,9300	-9,08
EE	7,3805	6,8414	-7,30
IT	10,1130	9,4300	-6,75
FI	7,6000	7,1000	-6,58
LV	9,7771	9,4011	-3,85
BG	6,6980	8,0223	19,77
PT	7,0000	8,5500	22,14
DK	:	:	:
IE	:	:	:
LT	:	:	:
LU	:	:	:
AT	:	:	:
SI	:	:	:
SE	:	7,5501	:

Figure 5.14 % increase in gas prices for industrial consumers 2008 s02 – 2009 s01

Δ % sorted on I3

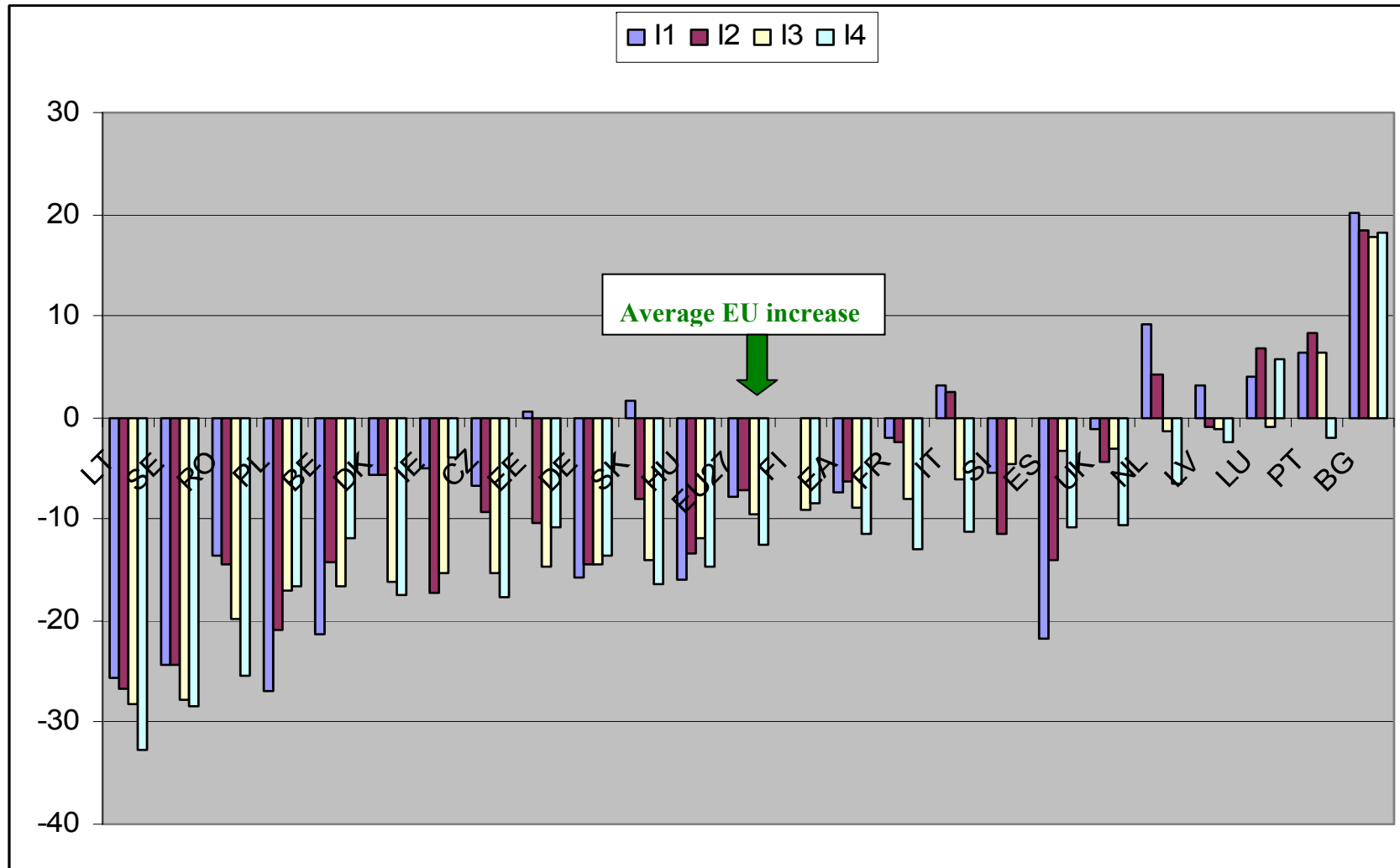


Table 5.15 Overview % increases of end prices 2008 s02 – 2009 s01 per Member State

	Household consumers				
	electricity		gas		
	DC	DD	D1	D2	D3
Austria	8,83	5,60	3,49	4,62	5,87
Belgium	-9,32	-10,49	-13,51	-17,29	-18,11
Bulgaria	0,00	0,00	14,19	20,96	15,88
Czech Republic	2,04	3,16	-4,93	-6,39	-8,47
Cyprus	-23,83	-23,77	na	na	na
Denmark	-6,35	-7,61	-5,57	-5,57	-5,57
Estonia	6,27	5,08	-0,41	7,29	8,85
Finland	1,99	3,52	na	na	na
France	3,01	2,35	-12,74	-5,10	-1,60
Germany	4,47	5,39	-8,27	-16,48	-17,19
Greece	4,98	1,62	na	na	na
Hungary	-4,22	-11,81	-1,88	3,48	-2,16
Ireland	-0,11	-0,37	-2,59	-0,88	0,13
Italy	na	na	-13,90	4,66	8,88
Latvia	0,10	0,00	9,92	0,06	-0,27
Lithuania	9,15	8,18	26,84	11,04	27,12
Luxembourg	16,39	15,04	13,64	-4,24	-4,60
Malta	11,21	-0,92	na	na	na
Netherlands	9,09	9,02	3,80	7,67	6,64
Poland	-12,14	-12,30	-19,94	-24,46	-19,64
Portugal	18,57	40,07	-2,50	-5,80	-12,78
Romania	-11,52	-14,98	-14,05	-14,02	-14,02
Slovenia	16,43	19,08	-10,38	-7,91	-3,26
Slovakia	0,86	13,88	1,98	-0,73	6,32
Spain	1,33	-1,31	-5,57	-6,37	-13,15
Sweden	-8,53	-11,22	-18,80	-17,42	-18,35
United Kingdom	-8,56	-6,07	-6,10	-11,43	-9,48
EU Average	-1,04	0,61	-8,64	-8,59	-7,82

	Industrial consumers					
	electricity		gas			
	IC	ID	I1	I2	I3	I4
Austria	na	na	na	na	na	na
Belgium	na	na	-21,40	-14,14	-16,70	-11,95
Bulgaria	-0,78	0,00	20,23	18,43	17,69	18,28
Czech Republic	-4,60	-0,11	-6,82	-9,22	-15,31	-17,65
Cyprus	-34,79	-37,37	na	na	na	na
Denmark	-16,61	-22,13	-5,60	-5,60	-16,23	-17,40
Estonia	6,73	7,42	0,50	-10,46	-14,76	-10,78
Finland	2,47	2,44	na	na	-9,09	-8,33
France	15,33	18,16	-2,07	-2,36	-7,98	-12,96
Germany	2,52	1,44	-15,71	-14,53	-14,42	-13,59
Greece	3,04	3,88	na	na	na	na
Hungary	2,18	1,79	-15,92	-13,45	-11,98	-14,64
Ireland	-15,01	8,51	-4,95	-17,24	-15,38	-3,86
Italy	na	na	3,25	2,43	-6,06	-11,31
Latvia	12,56	19,97	3,15	-0,87	-1,22	-2,34
Lithuania	10,26	10,94	-25,68	-26,65	-28,10	-32,65
Luxembourg	18,23	na	4,02	6,85	-0,98	5,76
Malta	-6,36	-13,80	na	na	na	na
Netherlands	5,62	3,53	9,12	4,34	-1,40	-6,52
Poland	0,47	3,12	-26,84	-20,99	-17,12	-16,55
Portugal	17,67	18,16	6,40	8,40	6,48	-1,95
Romania	-14,63	-2,93	-13,65	-14,45	-19,84	-25,30
Slovenia	11,78	9,35	-5,48	-11,53	-4,47	na
Slovakia	10,37	8,51	1,67	-7,98	-14,08	-16,46
Spain	8,07	0,08	-21,80	-14,00	-3,37	-10,78
Sweden	-13,80	-15,12	-24,30	-24,29	-27,85	-28,47
United Kingdom	2,57	1,13	-1,20	-4,26	-3,02	-10,69
EU Average	1,62	0,36	-7,74	-7,17	-9,41	-12,41

Based on Δ % calculations in previous tables. Legend: No fill + white = increase in line with EU-average; fill + white = increase well below EU-average; fill + black = increase well above EU average.

6. NETWORK ACCESS

Table 6.1 Composition of electricity prices 2008

HOUSEHOLDS						
Composition of the household prices in € per 100 kWh					Share in price <u>without tax</u> (%)	
	Total price	Energy&supply	Network costs	Taxes&levies	Energy&supply	Network costs
Austria	17.72	6.78	5.91	5.03	53.4	46.6
Belgium	20.81	8.95e	6.88e	3.62e	56.5	43.5
Bulgaria	8.23	4.09	2.76	1.38	59.7	40.3
Cyprus	20.40	NA	NA	NA	NA	NA
Czech Rep.	12.99	6.35e	4.45e	2.18e	58.8	41.2
Denmark	27.85	8.05	5.23	14.62	60.6	39.4
Estonia	8.50	3.11	3.59	1.81	46.5	53.5
Finland	12.73	5.50	4.05	3.18	57.6	42.4
France	12.32	NA	NA	NA	NA	NA
Germany	21.95	8.01	5.40	8.54	59.7	40.3
Great Britain (UK)	16.03	10.65	4.53	0.73	NA	NA
Greece	10.99	NA	NA	NA	NA	NA
Hungary	15.53	8.28	4.53	2.72	64.7	35.3
Ireland	20.33	NA	NA	NA	NA	NA
Italy	21.95	11.13e	4.86e	5.37e	69.6	30.4
Latvia	10.03	4.93	4.63	0.48	51.6	48.4
Lithuania	8.65	3.65	6.68	1.32	49.8	50.2
Luxembourg	15.56	6.16	7.54	1.86	45.0	55.0
Malta	15.36	12.39e	2.20e	0.77e	84.9	15.1
Northern Ireland ¹⁵	NA	NA	NA	NA	NA	NA
Norway	17.00	5.91	6.46	4.63	47.8	52.2
Poland	12.95	4.86	5.19	2.90	48.4	51.6
Portugal	15.25	6.99e	3.98e	4.28e	63.7	36.3
Romania	11.03	3.57	5.63	1.82	38.8	61.2
Slovak Republic	15.27	6.50	6.33	2.44	50.6	49.4
Slovenia	11.56	4.57	4.62	2.37	49.7	50.3
Spain	15.57	8.94	3.83	2.80	70.0	30.0
Sweden	17.46	6.20	5.18	6.11	54.5	45.5
Netherlands	17.80	NA	NA	NA	NA	NA

Source: Eurostat

Note

"e" = estimated value

¹⁵ Included in UK

Table 6.2 Access Conditions to Gas Transmission networks

Transmission				
	Tariff model	Congestion management	Capacity allocation mechanism	Balancing model applied
Austria	3	NAP	5	2,3
Belgium	1,2,3	4,5,6,7,8	1,2,3,4,5	1,2,3
Bulgaria	3	7	1	1,3
Cyprus	NAP	NAP	NAP	NAP
Czech Rep.	2,3	2,6,7	3	2
Denmark	2	5,6,7	1,3	2,3
Estonia	1	-	1	NAP
Finland	---3	NAP	NAP	---; 2
France	2	1,2,5,6,7	1,2,3,5	1,3
Germany	2	6,7	1	1,2,3
Great Britain	uncoupled	4,5,6,7	1,2,5	NA
Greece	NAP	5	1	2
Hungary	1	1,2,5,6,7	1,2,3,5	1,2,3
Ireland	2	6	1	2
Italy	2	2,6,7	3	3
Latvia	1	NAP	NAP	-
Lithuania	NAP	7	1	1
Luxembourg	1	NAP	1	1
Malta				
Northern Ireland	3	5,6,7	1	2
Norway				
Poland	3	2,5,6,7,8	1	2,3
Portugal	NAP	1,5	4,5	3
Romania	As described below	As described below	1	3
Slovak Republic	2	6,7	1	2
Slovenia	---	2,6,7	4	1
Spain	2 (1 for big consumers)	1,2,5,6,7	1,2,3,5	2,3
Sweden	2	-	5	2
Netherlands	2	5,7	1	2

Source: Regulators' data

Note:

Tariff model (1- entry exit coupled, 2- entry exit uncoupled, 3- point-to point);

Congestion management (1- auction, 2-pro rata, 3- lottery 4- capacity by back, 5- UIOLI, 6- secondary market, 7- Interruptible capacity, 8- use it or sale it);

Capacity allocation mechanism (1- first come first served, 2- auction, 3- pro rata, 4- allocation on deadline, 5- capacity goes with the costumer);

Balancing model applied (1- TSO buys balancing gas on the regular market, 2- TSO contracts sources of balancing gas, 3- TSO uses storage for balancing).

Romania, Tariff model: The mechanisms for calculation of prices and regulated tariffs are of „revenue-cap” type for regulated underground storage, and „price-cap” for regulated distribution and supply.

For the second regulatory period (2007-2012), until the “entry-exit” pricing system shall be introduced, the tariff for the transmission through the national transmission system is unique and has a binomial structure

Romania, Congestion management: In order to settle the congestions, the approved but unused capacity may make up the object of

a) voluntary return to the TSO

b) capacity transfer facility CTF

c) mandatory transfer from one network user to another by the TSO

7. UNBUNDLING

Table 7.1 Unbundling of Network Operators: Electricity Transmission

Electricity	Number of TSOs	Number of TSOs Ownership Unbundled	Public Ownership	Private Ownership	TSO network assets	
					with	without
Austria	3	0	75,5	24,5	1	2
Belgium	1	0	NA	64,45	1	0
Bulgaria	1	0	100	0	0	1
Cyprus	1	0	100	0	0	1
Czech Republic	1	1	100	0	1	0
Denmark	1	1	100	0	1	0
Estonia	1	0	100	0	1	0
Finland	1	1	12	88	1	0
France	1	0	84,66	15,34	1	0
Germany	4	0	0	100	4	0
Great Britain	1	1	0	100	1	0
Greece	1	0	51	49	0	1
Hungary	1	0	0,01	99,99	1	0
Ireland	1	1	100	0	0	1
Italy	8	1	30	70	8	0
Latvia	1	0	100	0	0	1
Lithuania	1	0	61,7	38,3	1	0
Luxembourg	1	0	32,8	67,2	0	1
Malta						
Northern Ireland	1	1	0	100	0	1
Norway	1	1	100	0	1	0
Poland	1	1	100	0	1	0
Portugal	3	1	51	49	1	0
Romania	1	1	76,5	23,5	1	0
Slovak Republic	1	1	100	0	1	0
Slovenia	1	1	100	0	1	0
Spain	1	1	20	80	1	0
Sweden	1	1	100	0	1	0
The Netherlands	1	1	100	0	1	0

Source: Regulators data

Table 7.2 Unbundling of DSO in Electricity

Electricity	Number of DSOs	Number of DSOs Owner-ship Unbundled	Number of DSOs Legally Unbundled	Application of 100.000 Customer Exemption	Numbers of DSOs with less than 100.000 Customers
Austria	130	0	11	YES	119
Belgium	26	NA	26	NO	NA
Bulgaria	4	4	4	NO	1
Cyprus	1	0	0	YES	0
Czech Republic	3	0	3	YES	278
Denmark	89	0	89	NO	82
Estonia	40	NA	1	YES	39
Finland	89	1	50	NO	82
France	148	0	4	YES	143
Germany	862	0	150	YES	787
Great Britain	19	0	19	NO	5
Greece	1	0	0	NO	0
Hungary	6	0	6	NO	0
Ireland	1	0	0	NO	0
Italy	151	130	12	YES	139
Latvia	10	9	1	YES	9
Lithuania	2	0	2	YES	5
Luxembourg	8	0	1	YES	7
Malta					
Northern Ireland	1	0	1	NO	0
Norway	162	9	41	YES	155
Poland	20	0	14	YES	6
Portugal	13	10	11	YES	10
Romania	35	5	8	YES	27
Slovak Republic	3	0	3	YES	159
Slovenia	1	0	1	NO	0
Spain	346	0	346	YES	340
Sweden	175	0	175	YES	166
The Netherlands	8	5	8	NO	2

Source: Regulators Data

Table 7.3 Unbundling of Network Operators: Gas Transmission

GAS	Number of TSOs	Number of TSOs Ownership Unbundled	Ownership		TSO with network assets	
			Public Ownership	Private Ownership	with	without
Austria	7	0	31,5	68,5	5	2
Belgium	1	0	45,22	54,78	1	0
Bulgaria	1	0	100	0	1	0
Cyprus	NAP	NAP	NAP	NAP	NAP	NAP
Czech Republic	1	0	0	100	1	0
Denmark	1	1	100	0	1	0
Estonia	1	0	0	100	1	0
Finland	1	0	24	76	NAP	NAP
France	2	0	35,7	64,3	2	0
Germany	18	1	0	100	3	15
Great Britain	1	1	NA	NA	1	0
Greece	1	0	65	35	1	0
Hungary	1	1	0	100	1	0
Ireland	1	0	100	0	0	1
Italy	3	1	1,98	98,02	3	0
Latvia	1	0	2,77	97,33	NAP	0
Lithuania	1	0	17,7	76	0	0
Luxembourg	1	0	21	79	0	0
Malta						
Northern Ireland	3	2			3	0
Norway						
Poland	1	1	100	0	0	1
Portugal	1	1	51	49	1	0
Romania	1	1	75,01	24,98	1	NAP
Slovak Republic	1	0	51	49	0	1
Slovenia	1	0	0	100	1	0
Spain	8	1	5	95	8	0
Sweden	3	2	0	100	2	1
The Netherlands	1	1	100	0	NA	NA

Source: Regulators Data

Table 7.4 Unbundling of Network Operators: Gas Distribution

Gas	Number of DSOs	Number of DSOs Owner-ship Unbundled	Number of DSOs Legally Unbundled	Application of 100.000 Customer Exemption	Numbers of DSOs with less than 100.000 Customers
Austria	20	0	8	YES	14
Belgium	18	NA	18	NO	NA
Bulgaria	32	NA	0	YES	32
Cyprus	NAP	NAP	NAP	YES	NAP
Czech Republic	91	0	8	YES	83
Denmark	4	0	4	NO	2
Estonia	27	NA	1	YES	27
Finland	32	0	0	YES	32
France	24	0	3	YES	21
Germany	686	NA	145	YES	659
Great Britain	8	8	8	NO	0
Greece	3	0	0	NO	2
Hungary	10	0	5	YES	5
Ireland	1	0	1	NO	0
Italy	295	130	292	YES	214
Latvia	1	0	0	NO	0
Lithuania	6	0	0	YES	5
Luxembourg	4	0	0	YES	4
Malta					
Northern Ireland	2	0	1	YES	1
Norway					
Poland	6	0	6	YES	1
Portugal	11	0	4	YES	7
Romania	38	2	38	YES	36
Slovak Republic	46	1	1	YES	45
Slovenia	17	0	0	YES	17
Spain	20	0	20	NO	13
Sweden	5	0	5	YES	5
The Netherlands	12	10	12	NO	2

Source: Regulators Data

8. SUPPLY – DEMAND BALANCE

Table 8.1 Electricity generation 2008

Electricity	demand/consumption (TWh)	Peak load (GW)	max. net generation capacity (GW)	total net generation volume (TWh)
Austria	NA	9,955	20,179	67,046
Belgium	NA	13,65	16,67	80,67
Bulgaria	34,64	7,03	8,07	39,64
Cyprus	4,996	1,01	1,189	4,719
Czech Republic	72	10,88	17,724	77085
Denmark	36,2	6,3	12,7	34,7
Estonia	8,557	1637	1,96	9498
Finland	86,9	13,77	13,3	74,2
France	494,5	84,4	117,7	549,1
Germany	569	76,8	147,1	599,3
Great Britain	351,37	59,2	79,9	359,02
Greece	55,68	10,393	11,871	56871
Hungary	37,4	6,388	6,979	37,38327
Ireland	27	4,873	6,013	26,7
Italy	339,5	55,3	86,9	307064,5
Latvia	7,79	1,42	2,692	5,2
Lithuania	9,8	2,05	3,81	12,6
Luxembourg	6,703	1,071	0,598	2682
Malta				
Northern Ireland	9,6	1,762	8,215	36,51
Norway	127,4	21,589	30,811	142,667
Poland	152,5	25,1	35,4	154,607
Portugal	50,574	8,959	14,916	41,782
Romania	55,206	8,6	16,6	64772
Slovak Republic	30	4,342	7,762	29
Slovenia	13,43	1,963	3,112	15,032
Spain	279,9	42,96	94,97	294583
Sweden	155	24,9	34,18	146,021
The Netherlands	119,5	13,9	15	100,456

Source: Regulators Data

1. The capacity should be reported at 31st December of the relevant reported year. Includes electrical capacity of both electricity (only) and CHP plants. The Net Maximum Electrical Capacity is the sum of the net maximum capacities of all stations taken individually throughout a given period of operation. The period of operation assumed for present purposes is continuous running: in practice 15 hours or more per day. The net maximum capacity is the maximum power assumed to be solely active power that can be supplied, continuously, with all plant running, at the point of outlet to the network

2. Sweden: The reported figures are not in line with the IEA definition. The reported figures are total installed capacity on 31 of December.

3. Netherlands: Only the production facilities connected to the national grid are included. If decentral production is included as well, the total is around 24 Gwe.

Table 8.2 Gas Security of Supply

Gas	demand/consumption (TWh/year)	Peak load (TWh/day)	National production (TWh/year)
Austria	93,23	0,4343	17,2
Belgium	192,5	0,911	0
Bulgaria	32,92	0,1387	2,32
Cyprus	NAP	NAP	NAP
Czech Republic	91,67	0,54	1,23
Denmark	40	0,21	97
Estonia	8,999	0,0626	0
Finland	47	0,178	0
France	515,988	2,698	9,962
Germany	979,4	NA	151,5
Great Britain	1094,03	414,1	809,3854647
Greece	44,51	0,17	0
Hungary	125,195	0,7467	24,619
Ireland	56,504	0,215	4,77
Italy	898,1	4,3	98,4
Latvia	15,5	0,1	0
Lithuania	30,3	0,155	0
Luxembourg	14,1	0,06067	0
Malta			
Northern Ireland	18,58149	71,68449	0
Norway			
Poland	157,3	0,697	44,69
Portugal	53,5	0,195	0
Romania	165,01	0,7844	124,01
Slovak Republic	62,128	0,336	1,08
Slovenia	11,304	0,0503	0
Spain	448,5	1,789	1,3
Sweden	9,5	NA	0
The Netherlands	419,4	2,33	814,2

Source: Regulators Data

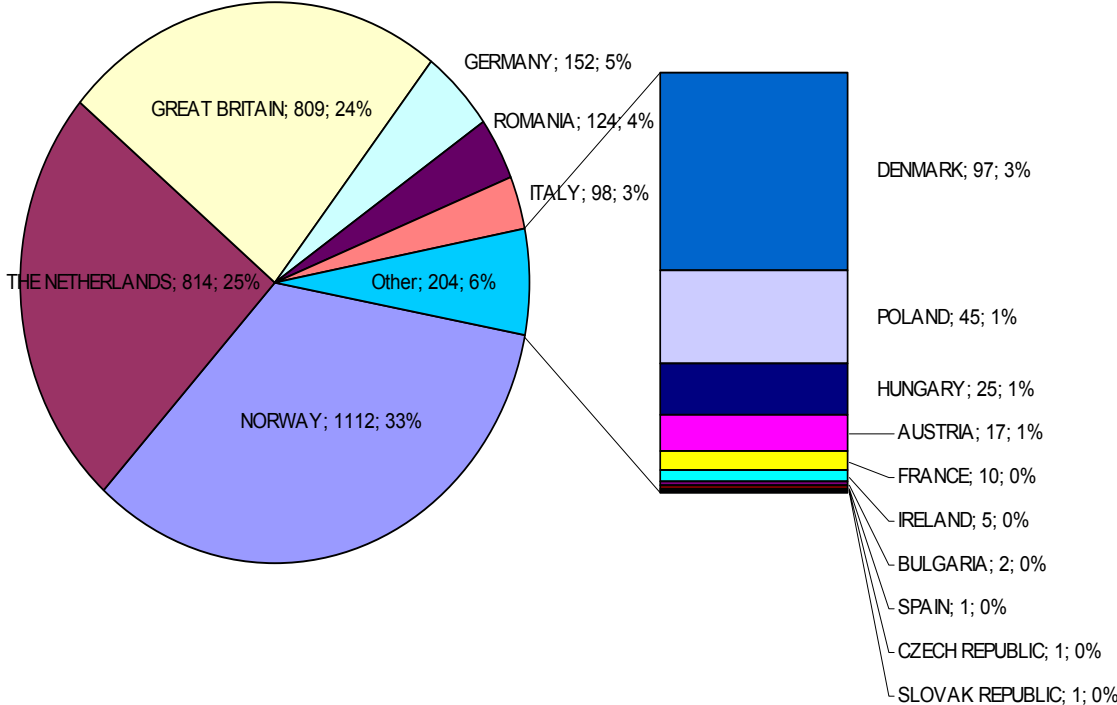
Figures are only indicative and do not fully match due to inconsistent statistical approaches

Note:

1. Consumption = Production + Imports - Exports + Storage variations
2. Lithuania: total consumption only import

Table 8.3 Production of natural gas in EU and Norway (2008)

Production of Natural Gas in 2008 in TWh/yr



Source: Regulators' Data, Statistics Norway

Table 8.4 LNG 2008

	Total LNG import capacity in TWh/h			LNG gas volume flow into the country in TWh/yr		
	2007	2008	Δ	2007	2008	Δ
Austria	NAP	NAP		NAP	NAP	
Belgium	0,007	0,02	0,013	28,6	21	-7,6
Bulgaria	NAP	NAP		NAP	NAP	
Cyprus	NAP	NAP		NAP	NAP	
Czech Republic	NAP	NAP		NAP	NAP	
Denmark	0	0		NAP	NAP	
Estonia	0	0		0	0	
Finland	0	0		0	0	
France	0,029	0,029	0	114,7	140	25,3
Germany	0	0		0	0	
Great Britain	89,9	90,4	-3,1	14,9	8,91	-5,99
Greece	0,0029	0,0065	0,0036	9,59	9,81	0,22
Hungary	NAP	NAP		NAP	NAP	
Ireland	NAP	0		NAP	0	
Italy	0,0048402	0,00484022	1,7E-08	25,72	16,45	-9,27
Latvia	0	0		0	0	
Lithuania	0	0		0	0	
Luxembourg	NAP	NAP		NAP	NAP	
Malta						
Northern Ireland	NAP	0		NAP	0	
Norway						
Poland	NA	NA		NA	NA	
Portugal	0,00714	0,0081	0,00096	31,5	30,1	-1,4
Romania	NAP	NAP		NAP	NAP	
Slovak Republic	0	NA		0	NA	
Slovenia	0	0		0	0	0
Spain	0,072	0,068	-0,004	281	332	51
Sweden	0	0		0	0	0
The Netherlands	NA	NA		NA	NA	

Source: Regulators data

Note:

1. Changes in stocks: (-) injection, (+) withdrawal.

Conversion factors

1 PJ (GCV) = 25,6 million m³ gas

1 m³ of natural gas = 39 mega joules (MJ – GCV) = 10,8 kWh

1 Mtoe = 1 million tones of oil equivalent = 41,86 PJ (NCV)

1000 m³ of natural gas = 0,9 ton oil equivante (toe – crude oil)

1 BCM = 1 billion cubic meters

1 cubic meter (m³) = 35,315 cubic feet (cf)

1 million m³ of LNG = 593 million m³ of gas

Net Caloric value (NCV) = 0,9 Gross calorific value (GCV)

1 megajoule = 10⁶ joules (MJ)

1 gigajoule = 10⁹ joules (GJ)

1 terajoule = 10¹² joules (TJ)

1 petajoule = 10¹⁵ joules (PJ)