

Appendix A. Results

Table A.1. Changes in relative prices and final demand as a result of subsidies elimination in gas and electricity sectors

Economic sectors	Gas price		Electricity price	
	Increase of relative price ($\Delta P_1\%$)	Decrease of final demand ($\Delta Y_1\%$)	Increase of relative price ($\Delta P_2\%$)	Decrease of final demand ($\Delta Y_2\%$)
Forestry	53.9	27.0	16.4	8.2
Agriculture and Fishing	1.2	0.2	0.5	0.1
Coal mining	3.3	0.7	5.6	1.1
Oil and gas extraction	133.0	26.6	3.1	0.6
Mining of non-energy materials	4.2	0.8	4.9	1.0
Food	0.6	0.1	0.3	0.1
Textiles	3.0	2.1	1.9	1.3
Pulp and paper	4.8	3.4	2.8	1.9
Manufacture of coke and petroleum	11.1	7.8	1.1	0.8
Chemicals and plastics	5.4	3.8	1.6	1.1
Manufacture of other non-metallic products	7.8	5.5	3.3	2.3
Metallurgy	1.7	1.2	1.0	0.7
Machinery	1.2	0.9	0.7	0.5
Other manufacture	10.3	7.2	5.5	3.8
Electricity production	5.2	1.0	44.3	8.9
Gas manufacture	155.5	31.1	10.8	2.2
Hot water supply	82.0	16.4	18.0	3.6
Water purification and	39.1	7.8	178.0	35.6
Construction	2.5	1.7	1.2	0.8
Trade and repair	0.4	0.3	0.3	0.2
Hotels and restaurants	4.4	4.4	4.1	4.1
Transport	2.0	1.4	0.7	0.5
Finance	0.3	0.2	0.2	0.1
Business activities	0.7	0.6	0.8	0.6
Public administration	1.5	0.8	1.0	0.5
Education	2.1	1.1	1.3	0.7
Health care	3.5	1.7	2.0	1.0
Other	3.1	1.6	2.5	1.3

Note: sector 'Other' refers to three sectors for which detailed data on energy consumption and employment are not available, particularly, (1) Sewage and refuse disposal, sanitation and similar activities, (2) Recreational, cultural and sporting activities, (3) Other services activities.

Table A.2. Decline in gross output and employment as a result of subsidies elimination in gas and electricity sectors

Economic sectors	Gas price		Electricity price	
	Decline in total output ($\Delta X_1\%$)	Decline in number of jobs (ΔE_{m1} in thousand employees)	Decline in total output ($\Delta X_2\%$)	Decline in number of jobs (ΔE_{m2} in thousand employees)
Forestry	4.4	0.77	1.6	0.28
Agriculture and Fishing	0.3	1.98	0.1	1.01
Coal mining	2.0	3.56	1.1	1.92
Oil and gas extraction	18.7	16.30	3.4	2.95
Mining of non-energy materials	0.4	0.95	0.2	0.46
Food	0.2	0.95	0.1	0.57
Textiles	2.5	2.67	1.5	1.64
Pulp and paper	1.9	2.10	1.0	1.14
Manufacture of coke	2.9	1.46	0.6	0.32
Chemicals and plastics	2.6	4.53	1.0	1.68
Manufacture of other non-metallic products	0.7	1.05	0.3	0.50
Metallurgy	0.3	1.36	0.2	0.68
Machinery	0.7	4.48	0.3	2.26
Other manufacture	4.0	2.75	2.1	1.47
Electricity production	1.3	4.54	1.7	6.01
Gas manufacture	7.4	2.39	1.0	0.33
Hot water supply	9.0	9.03	2.2	2.23
Water purification and distribution	4.1	1.28	13.4	4.21
Construction	0.1	0.49	0.1	0.28
Trade and repair	1.0	9.80	0.4	4.07
Hotels and restaurants	2.6	2.42	2.2	2.04
Transport	1.5	14.49	0.5	4.98
Finance	0.7	2.22	0.3	1.09
Business activities	0.9	5.45	0.5	3.16
Public administration	0.9	5.38	0.6	3.50
Education	1.1	17.46	0.7	10.87
Health care	1.7	21.58	1.0	12.49
Other	1.5	5.71	1.1	4.20

Note: sector 'Other' refers to three sectors for which detailed data on energy consumption and employment are not available, particularly, (1) Sewage and refuse disposal, sanitation and similar activities, (2) Recreational, cultural and sporting activities, (3) Other services activities.

Table A. 3. Changes in total energy and gas consumption as a result of subsidies elimination in gas and electricity sectors

Economic sectors	Gas price		Electricity price	
	Decline of total energy consumption (ΔE_{n1} in tons of coal equivalent)	Decline of gas consumption (ΔE_{g1} in thousand m ³)	Decline of total energy consumption (ΔE_{n2} in tons of coal equivalent)	Decline of gas consumption (ΔE_{g2} in thousand m ³)
Forestry	3041	645	1112	236
Agriculture and Fishing	7821	1660	4006	850
Coal mining	36125	781	19504	422
Oil and gas extraction	290201	170475	52570	30882
Mining of non-energy materials	6525	2740	3155	1325
Food	5660	3899	3409	2348
Textiles	2353	1634	1451	1008
Pulp and paper	8587	6290	4686	3432
Manufacture of coke and petroleum	1065415	11525	230705	2496
Chemicals and plastics	246603	206199	91477	76489
Manufacture of other	32265	22125	15446	10591
Metallurgy	138570	26394	69501	13238
Machinery	4746	3359	2394	1694
Other manufacture	37025	22437	19825	12014
Electricity production	393726	135583	521950	179738
Gas manufacture	207171	71341	29066	10009
Hot water supply	783740	269888	193233	66542
Water purification and distribution	110999	38224	365433	125840
Construction	1329	124	769	72
Trade and repair	9253	2340	3847	973
Hotels and restaurants	1255	731	1058	616
Transport	119026	65560	40924	22541
Finance	417	72	204	35
Business activities	4408	2022	2558	1173
Public administration	8654	3347	5624	2175
Education	4854	2473	3021	1539
Health care	7148	3381	4136	1956
Other	2371	650	1747	479

Note: sector 'Other' refers to three sectors for which detailed data on energy consumption and employment are not available, particularly, (1) Sewage and refuse disposal, sanitation and similar activities, (2)Recreational, cultural and sporting activities, (3) Other services activities.

Table A.4. Changes in GHG emissions as a result of subsidies elimination in gas and electricity sectors

Economic sectors	Gas price		Electricity price	
	Change in GHG emissions (ΔE_{e1}) in thousand tons CO ₂ -eq.	Change in GHG emissions (ΔE_{e1}) in %	Change in GHG emissions (ΔE_{e2}) in thousand tons CO ₂ -eq.	Change in GHG emissions (ΔE_{e2}) in %
Agriculture, forestry, fishing	76.7	0.2	26.9	0.1
Coal mining	221.2	0.7	208.8	0.6
Oil and gas extraction	5922.0	23.8	606.4	2.4
Food production	6.8	0.2	3.0	0.1
Manufacture of coke	8.2	0.4	4.8	0.2
Manufacture of petroleum	93.3	5.9	7.7	0.5
Chemicals and plastics	409.3	2.3	116.7	0.6
Electricity production	723.4	0.9	834.2	1.1
Gas manufacture	31.9	7.5	3.5	0.8
Hot water supply	1982.3	8.9	409.4	1.8
Other manufacture and construction	254.5	0.2	94.9	0.1
Transport	738.6	1.8	140.2	0.3
Other	77.1	0.5	19.4	0.1
Residential	302.0	0.8	1934.0	5.3