



Council of the
European Union

049619/EU XXVI. GP
Eingelangt am 10/01/19

Brussels, 10 January 2019
(OR. en)

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COVER NOTE

From:	Secretary-General of the European Commission, signed by Mr Jordi AYET PUIGARNAU, Director
date of receipt:	9 January 2019
To:	Mr Jeppe TRANHOLM-MIKKELSEN, Secretary-General of the Council of the European Union

No. Cion doc.:	SWD(2019) 1 final - PART 8/11
Subject:	COMMISSION STAFF WORKING DOCUMENT Accompanying the document REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE COMMITTEE OF THE REGIONS Energy prices and costs in Europe

Delegations will find attached document SWD(2019) 1 final - PART 8/11.

Encl.: SWD(2019) 1 final - PART 8/11



EUROPEAN
COMMISSION

Brussels, 9.1.2019
SWD(2019) 1 final

PART 8/11

COMMISSION STAFF WORKING DOCUMENT

Accompanying the document

**REPORT FROM THE COMMISSION TO THE EUROPEAN PARLIAMENT, THE
COUNCIL, THE EUROPEAN ECONOMIC AND SOCIAL COMMITTEE AND THE
COMMITTEE OF THE REGIONS**

Energy prices and costs in Europe

{COM(2019) 1 final}

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Content

This annex contains country *energy prices and costs* factsheets of the 28 EU Member States, Norway, Montenegro and Turkey. Where available, each factsheet displays information about the level of electricity, gas and oil prices in 2017 as well as about the main components of such prices, including a detailed breakdown of the taxes and levies charged to gas and electricity prices. Information about the presence of price regulation and social tariffs in each country are also included in the price section of the factsheet.

The factsheets also contain an account of the relative importance of energy costs in production costs for industry and services for the EU Member States over 2008-2016. Finally, financial support interventions to energy products across countries are also presented with a breakdown indicating the economic sectors and energy technologies that receive that support.

Details

The purpose of annex 3 is to provide an overview of gas and electricity prices and costs for each country analysed.

In the first page, electricity and gas prices in 2017 are shown at national level in comparison with their respective neighbour countries and the EU average. Electricity and Gas prices for Households are shown first, followed by electricity and gas prices for Industry. Then the evolution of electricity and gas prices from 2008 to 2017 is presented.

In the second page, the amount of the taxes and levies included in electricity and natural gas prices across consumption bands in 2017 are listed for each country analysed. The state of play of price regulation is then presented for EU Member States. Some have already liberalised prices before 2008 and not even social tariffs were identified. For some others, the factsheet shows the relative importance of price regulation and social tariffs for households for electricity and gas (shares of consumers/consumption under price regulation and social tariffs).

In the third page, oil prices (in €/litre) are presented, showing the evolution for gasoline, diesel and heating oil prices at national level from 2008 to the first half of 2018 and compared to the EU average. VAT and other indirect taxes affecting the country's total prices are also displayed. Subsequently, energy costs shares in total production value costs for industry and services from 2008 to 2016 are shown and compared to the EU average.

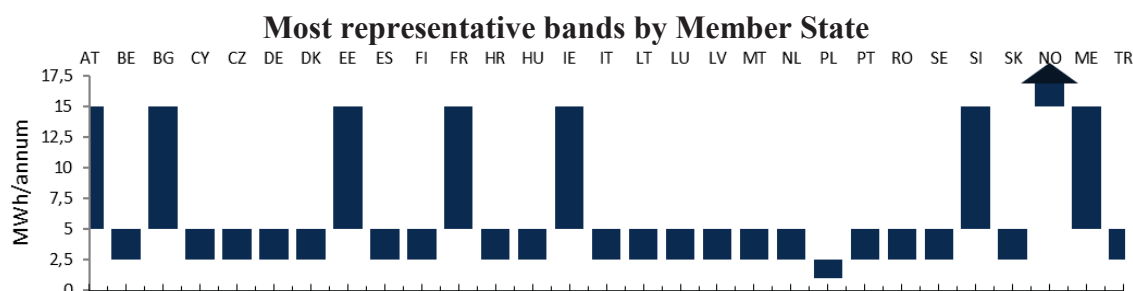
The last page of each factsheet (usually page 4) includes (where available) the country's financial support interventions to energy products from 2008 to 2016. First, it shows the financial support by energy technology (electricity, renewable energy sources, heating and cooling sector, fossil fuels and all other energies) and then by the economic sectors the received the support (households, non-households, public, transport, manufacturing, energy industry, agriculture and cross sectors).

Methodology

In order to understand the price codes used for the graphs in the country sheets, please refer to the table below. Each code corresponds to a specific product (electricity or natural gas), which is related to the household or industry sectors and to a level of annual consumption.

Code	Product	Type	Annual consumption	Description
DC	Electricity	Household	2.5 - 5 MWh	median
IB	Electricity	Industry	20-500 MWh	small
ID	Electricity	Industry	2000-20000 MWh	median
IF	Electricity	Industry	70000-150000 MWh	large
D2	Natural Gas	Household	20-200 GJ	median
I3	Natural Gas	Industry	10000-100000 GJ	median
I5	Natural Gas	Industry	1 mil - 4 mil GJ	large

The "Most representative" band for household consumers is defined as the consumption band accounting for the largest share in total household consumption. It is thus the band with the highest volume of electricity irrespective of the number of consumers in the band. The most representative bands are shown for the Member States that requested so in the context of the data collection of prices undertaken by the EC for the purposes of this report. For the others only the 'DC band' is shown.



Austria

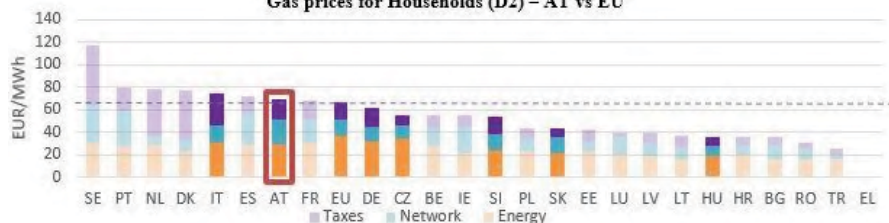


Electricity prices for Households (DC) – AT vs EU



See footnote ¹

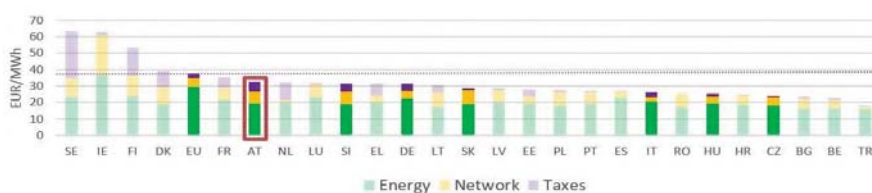
Gas prices for Households (D2) – AT vs EU



Electricity prices for Industry (ID) – AT vs EU



Gas prices for Industry (I3) – AT vs EU

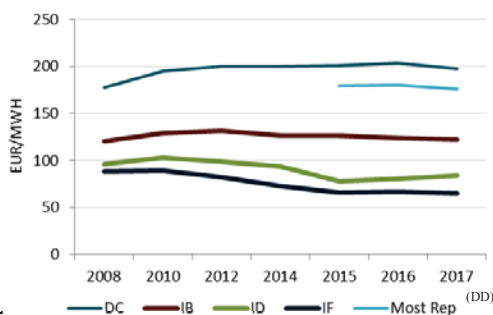


Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

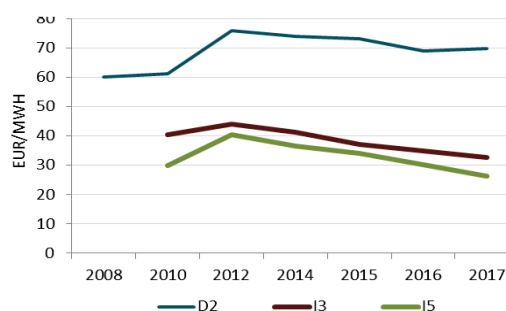
Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

See footnote ²

Electricity prices in Austria



Natural gas prices in Austria

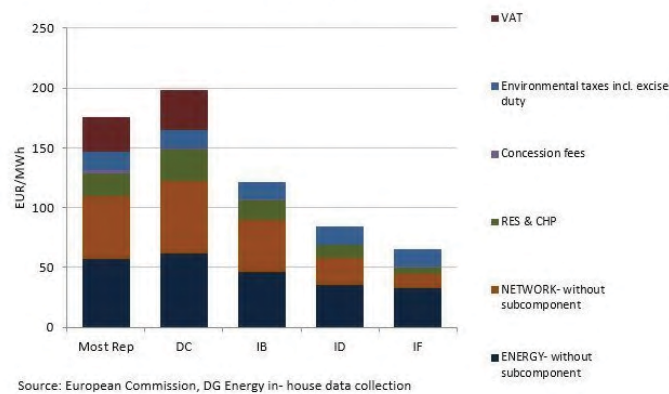


¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017.

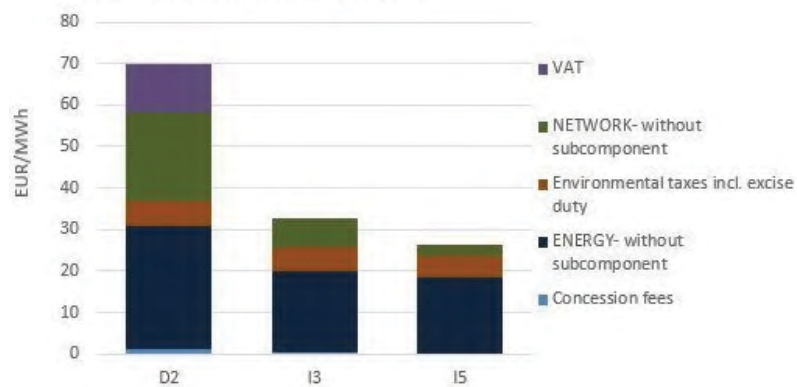
² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.

2017 electricity prices in

Austria

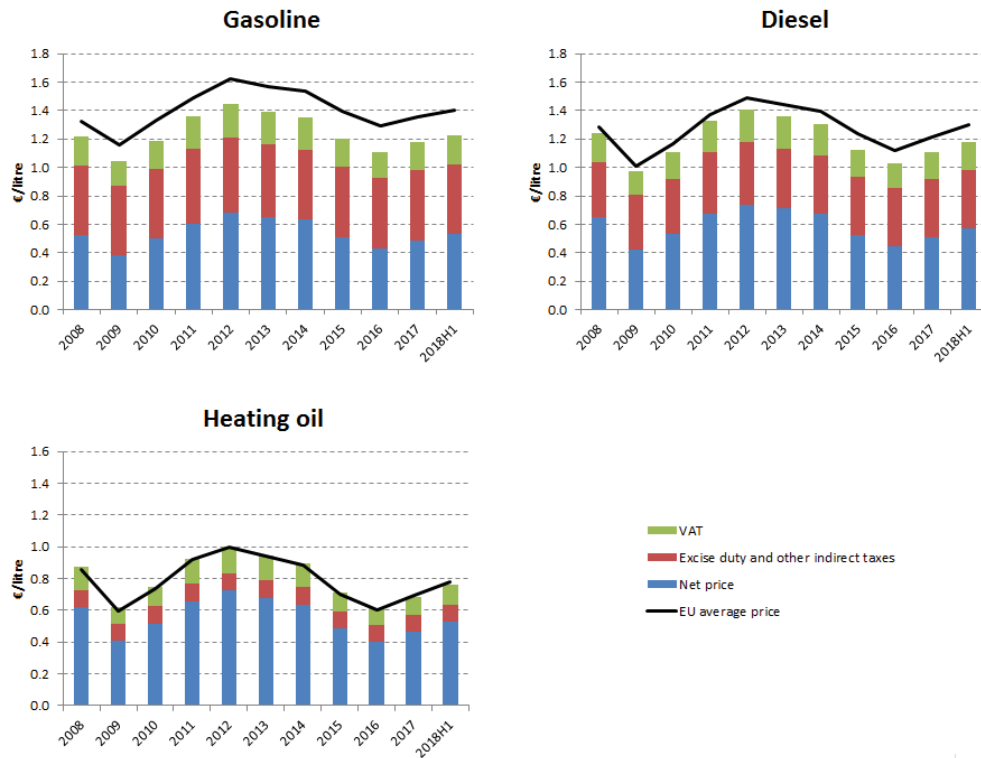


2017 Natural Gas Prices in **Austria**



This country liberalised prices before 2008.
No social tariffs identified.

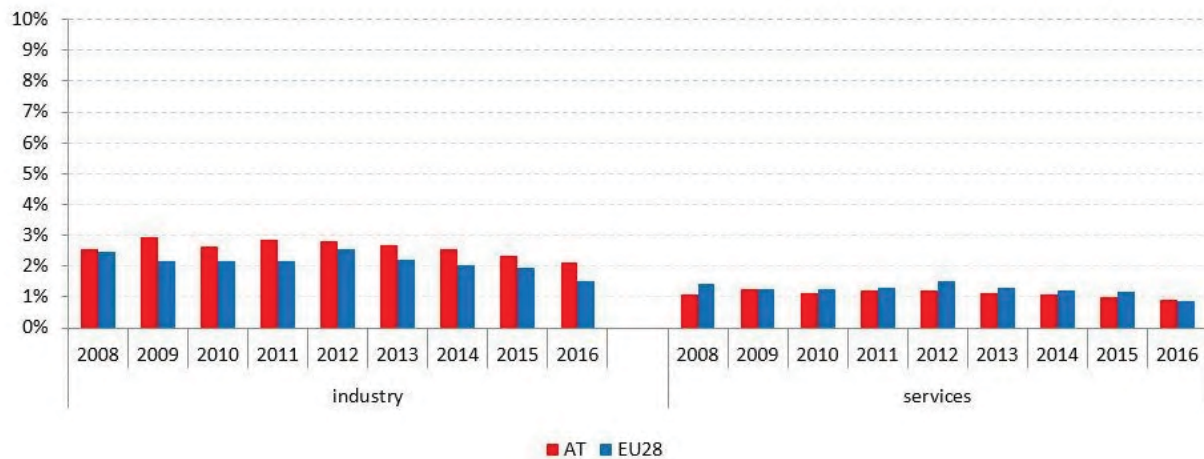
Oil prices



Energy costs shares in total production costs

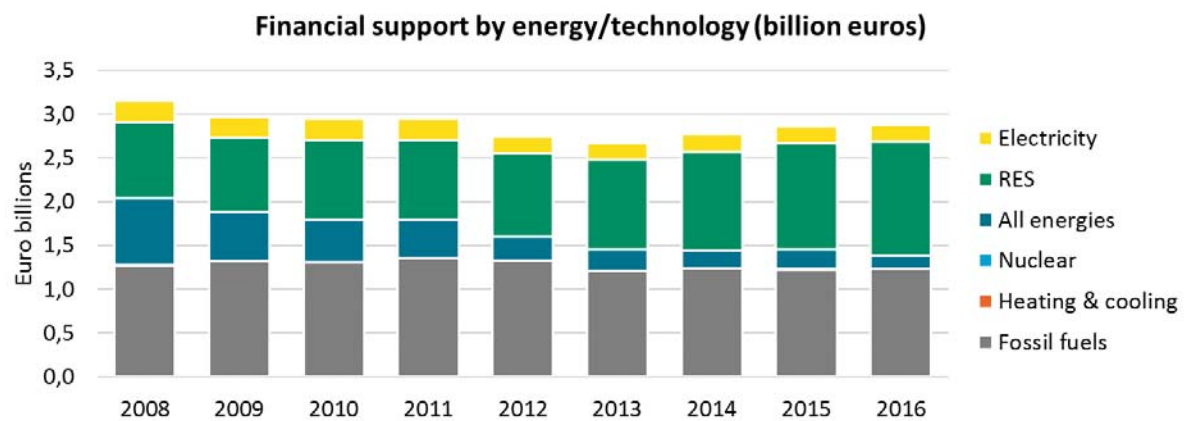
Share of energy costs in total production value in industry and services: AT vs. EU28

Source: ESTAT (SBS; NA), Primes, own calculations

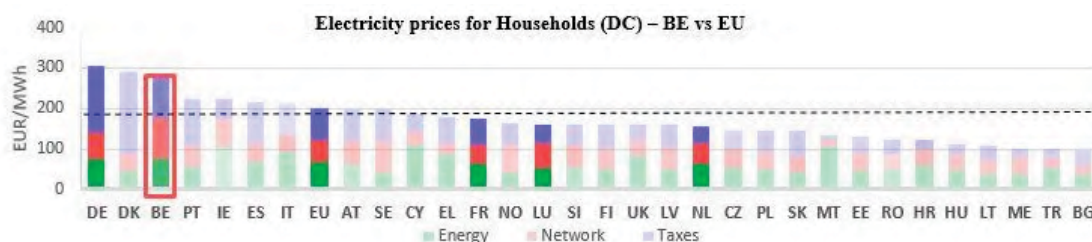


Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

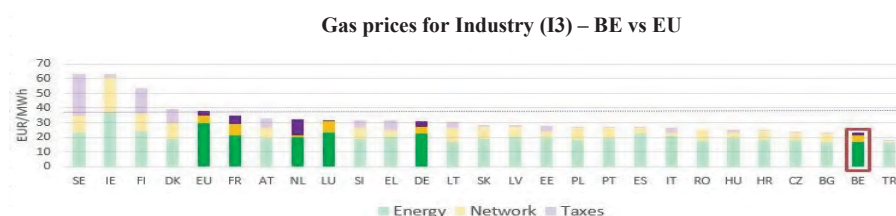
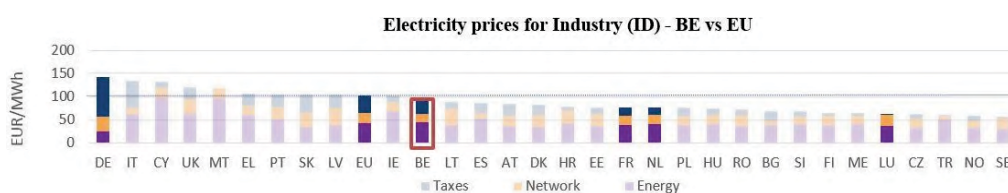
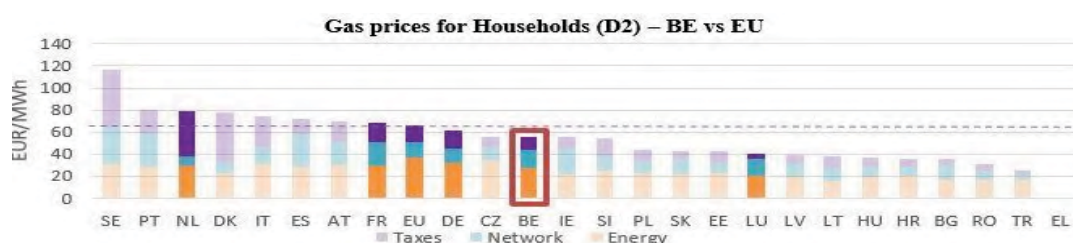
Financial support interventions



Belgium



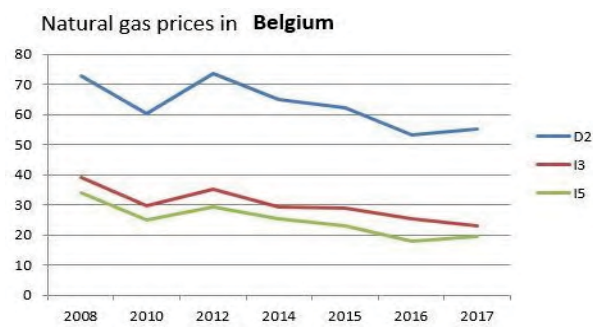
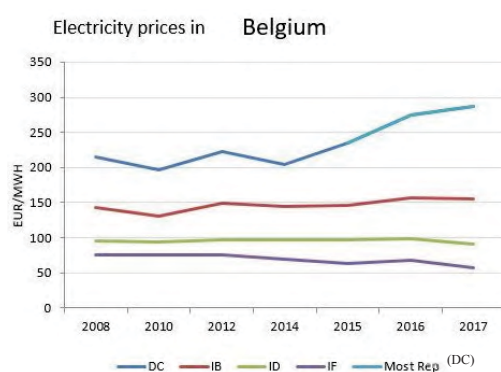
See footnote ¹



Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

See footnote ²

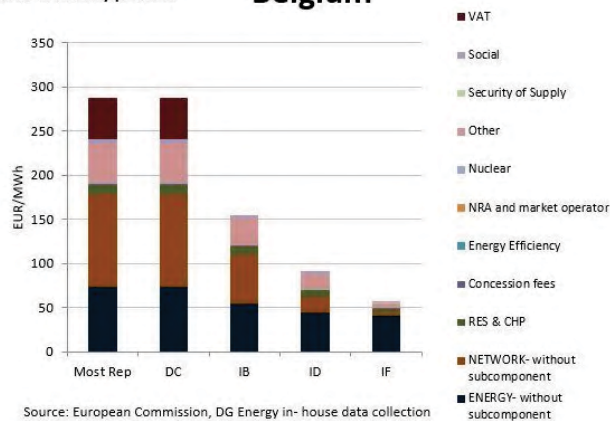


¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017

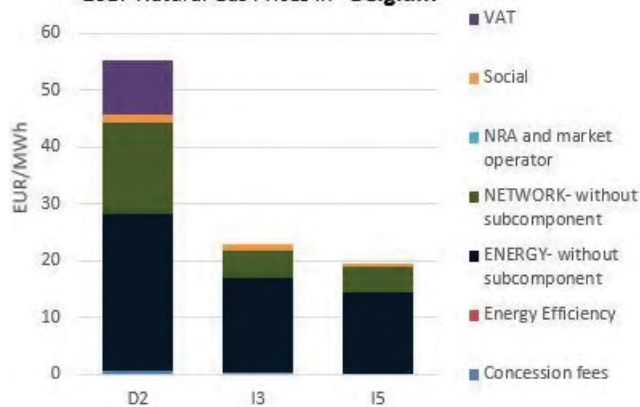
² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.

2017 electricity prices in

Belgium



2017 Natural Gas Prices in Belgium

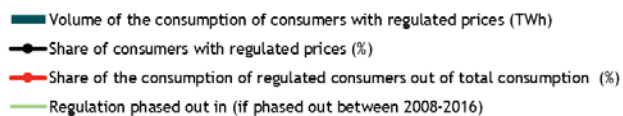
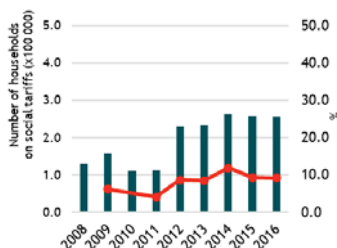


Price regulation

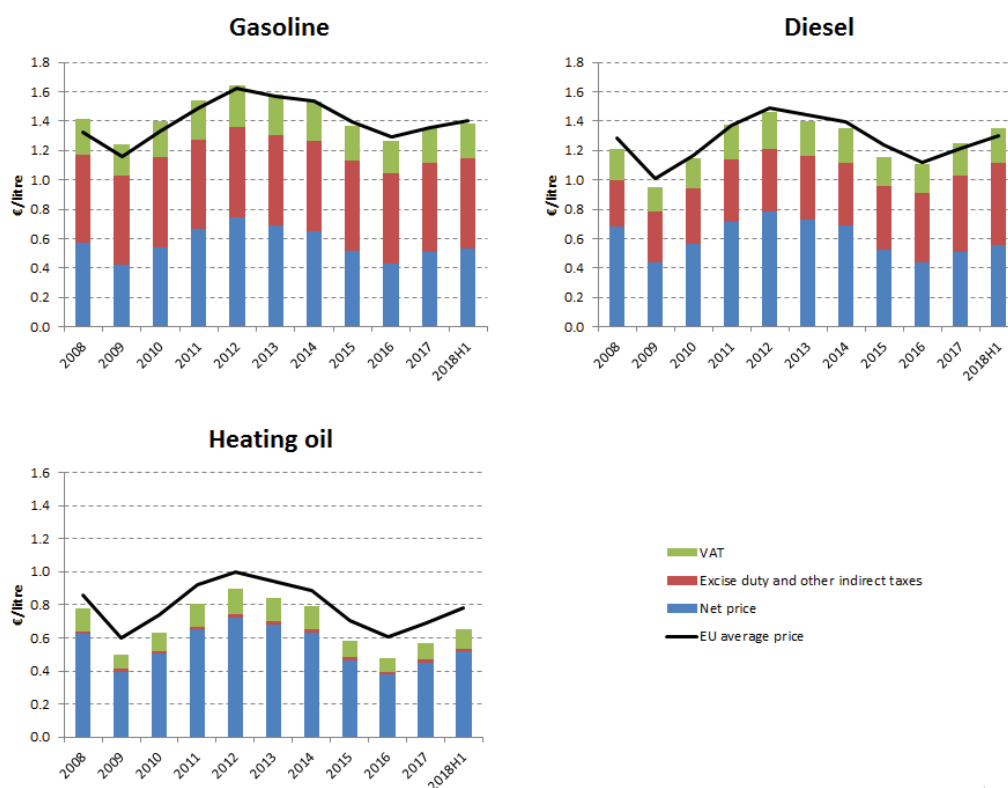
Households on social tariffs in Belgium, Electricity, Household



Households on social tariffs in Belgium, Gas, Household



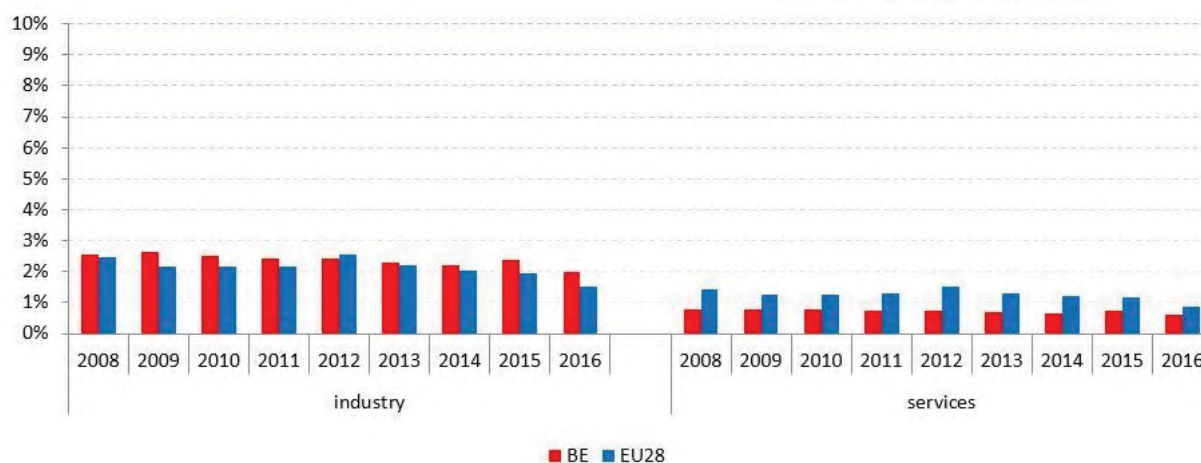
Oil products prices



Energy costs shares in total production costs

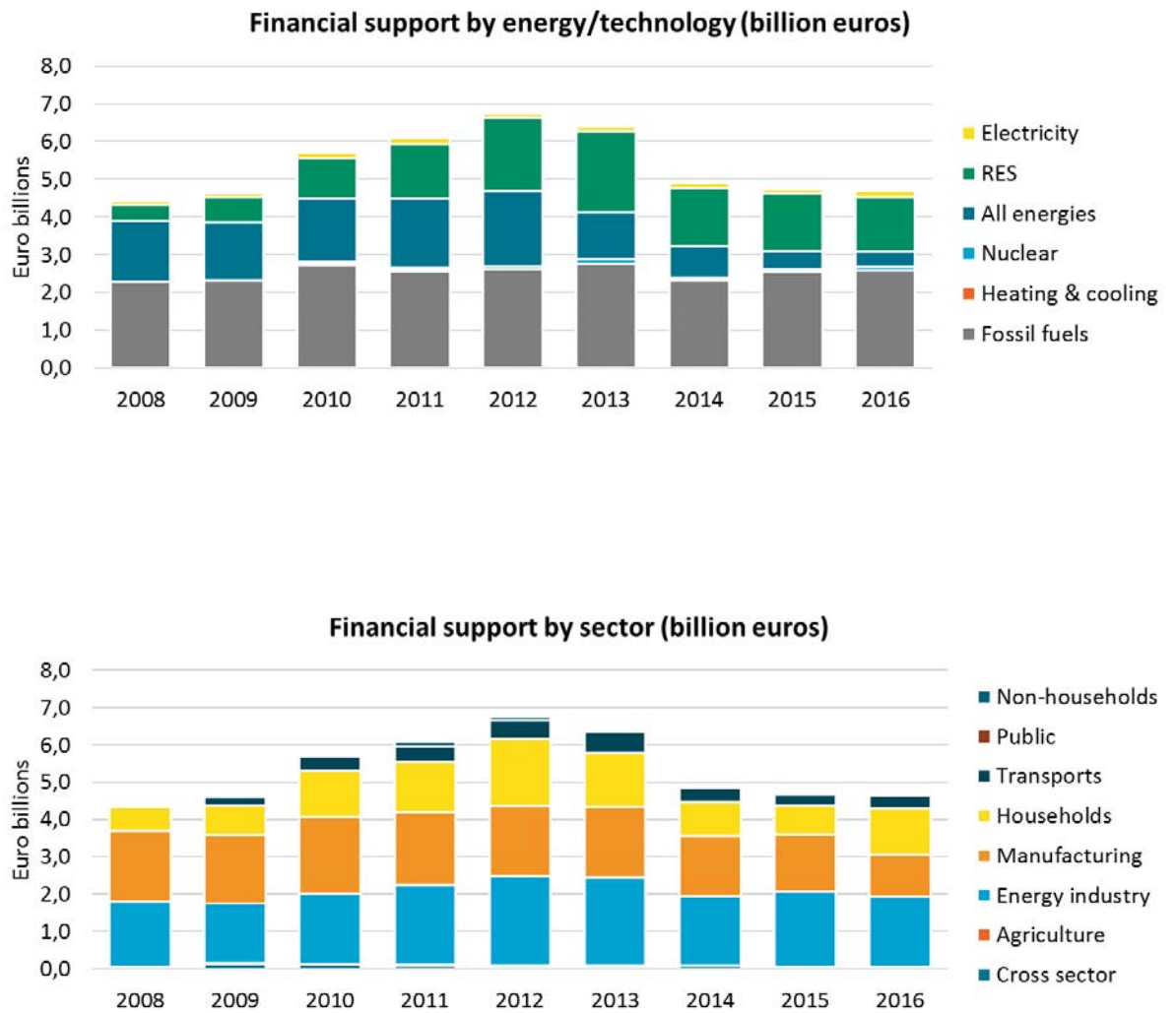
Share of energy costs in total production value in industry and services: BE vs. EU28

Source: ESTAT (SBS, NA), Primes, own calculations

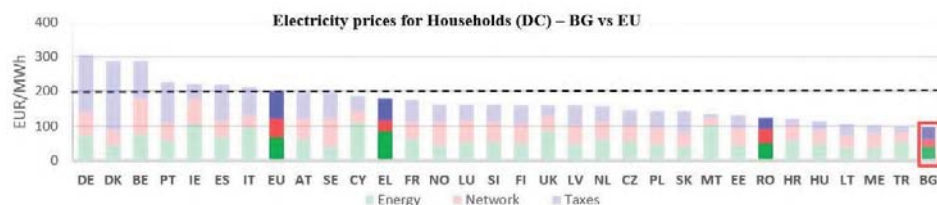


Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

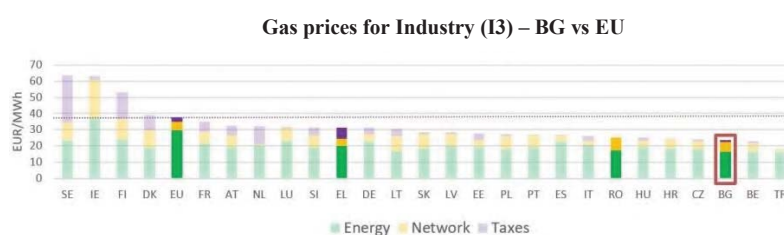
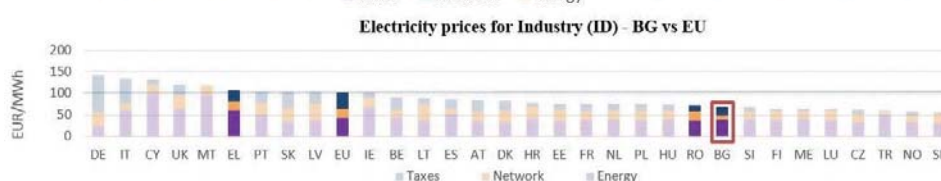
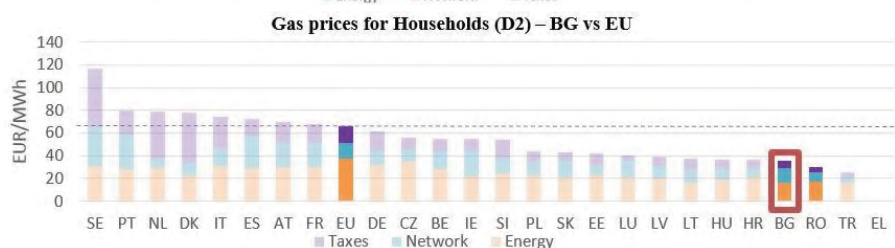
Financial support interventions



Bulgaria



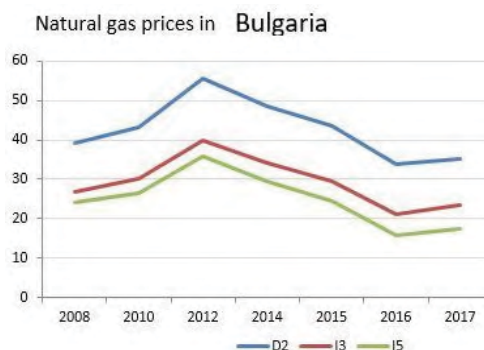
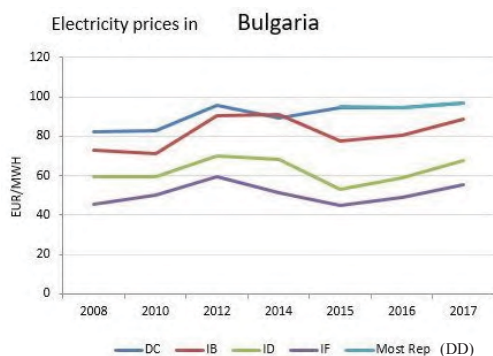
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Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

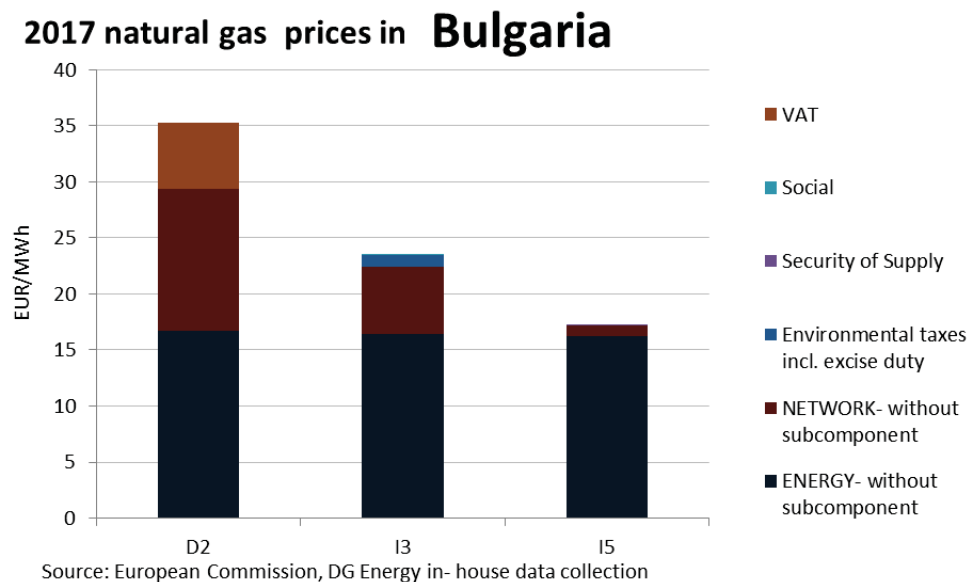
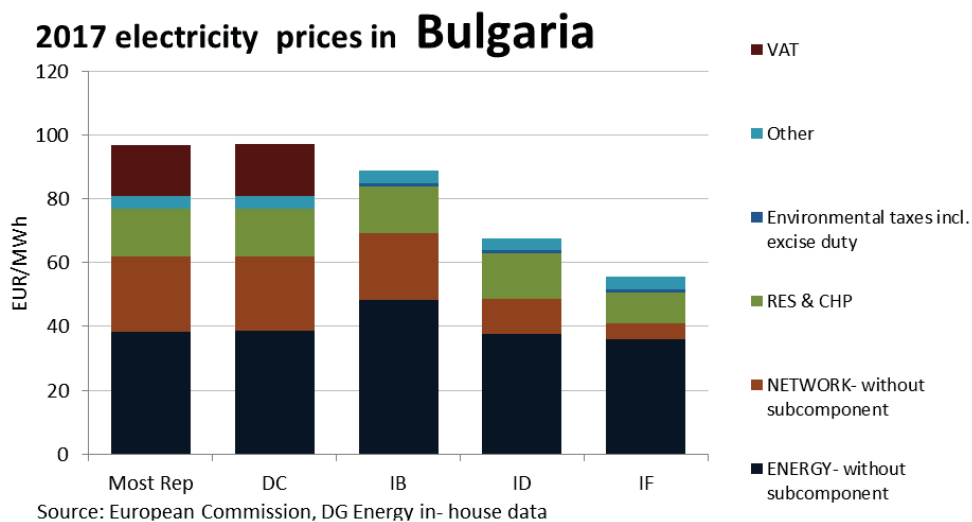
Gas	D2	I3	I5
	Household	Medium industry	Large industry

See footnote ²



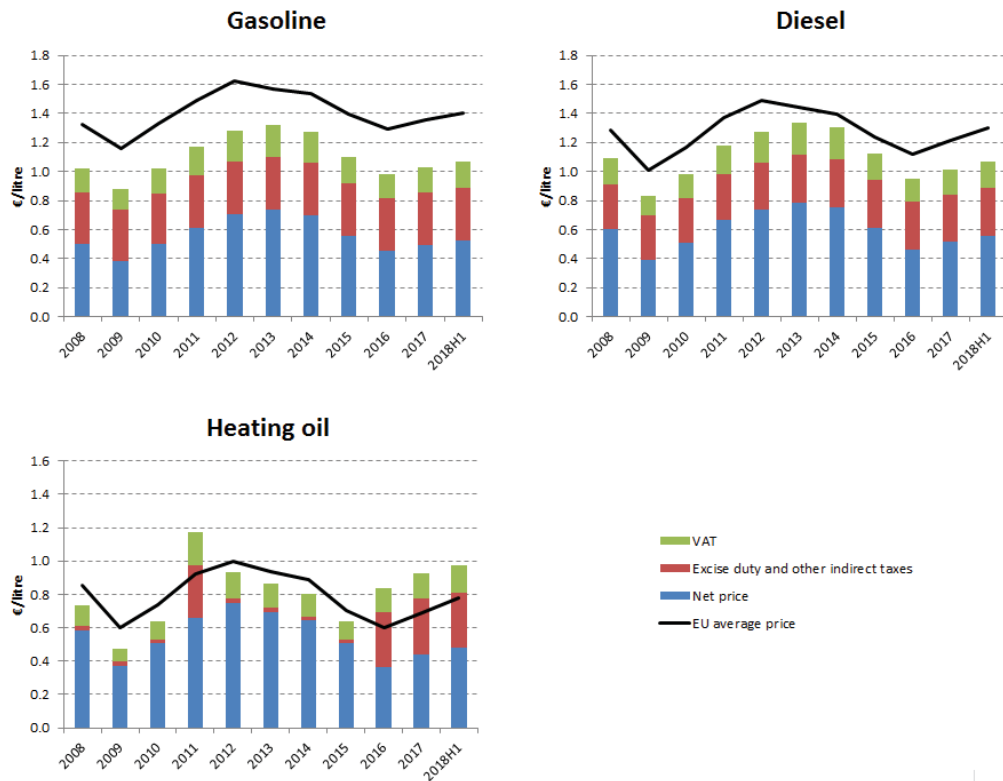
¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017.

² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.



Price regulation was still existent in 2016

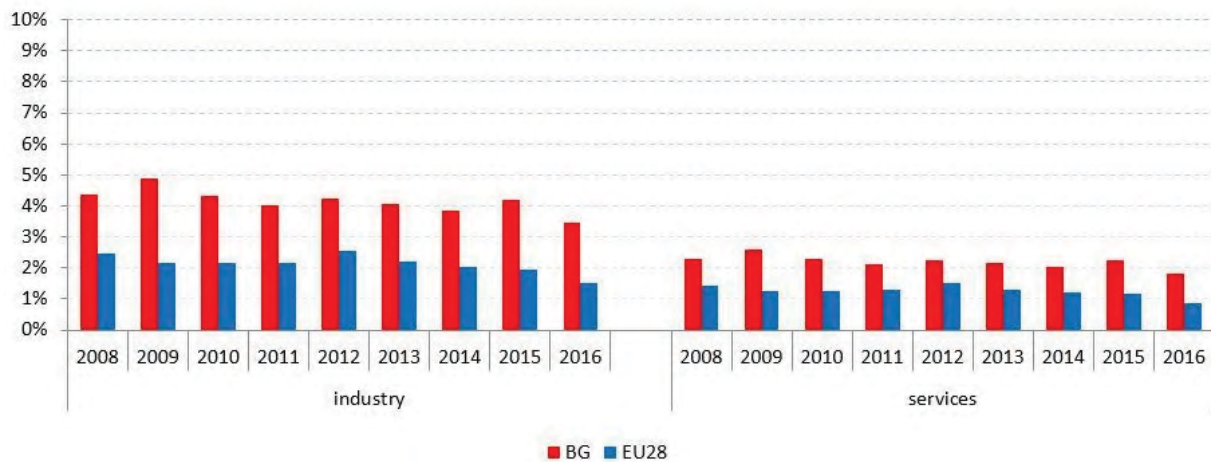
Oil products prices



Energy costs shares in total production costs

Share of energy costs in total production value in industry and services: BG vs. EU28

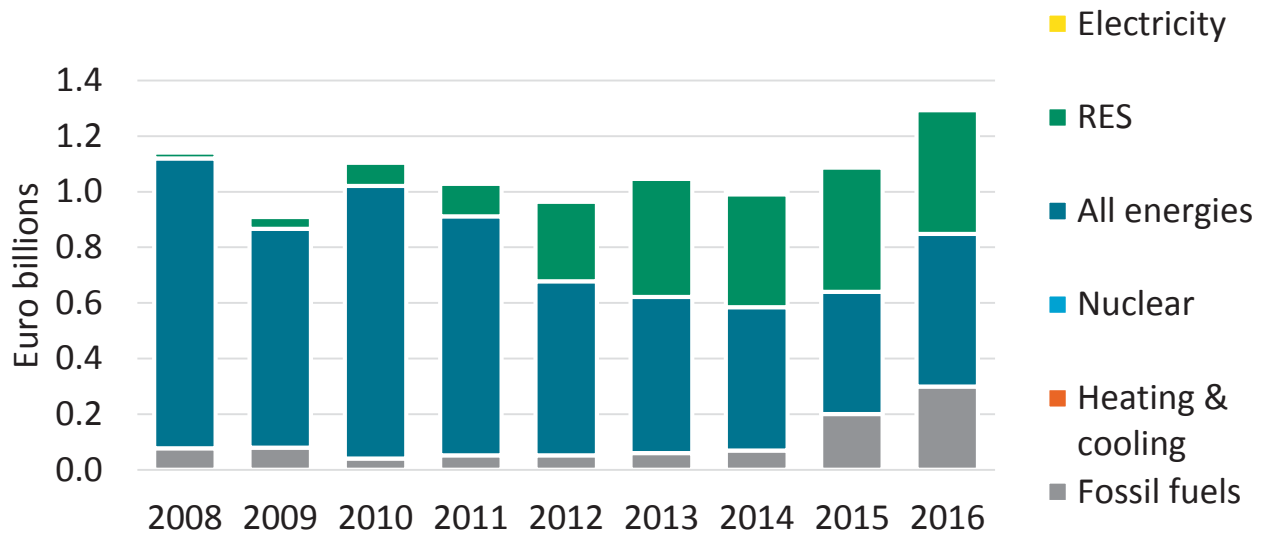
Source: ESTAT (SBS; NA), Primes, own calculations



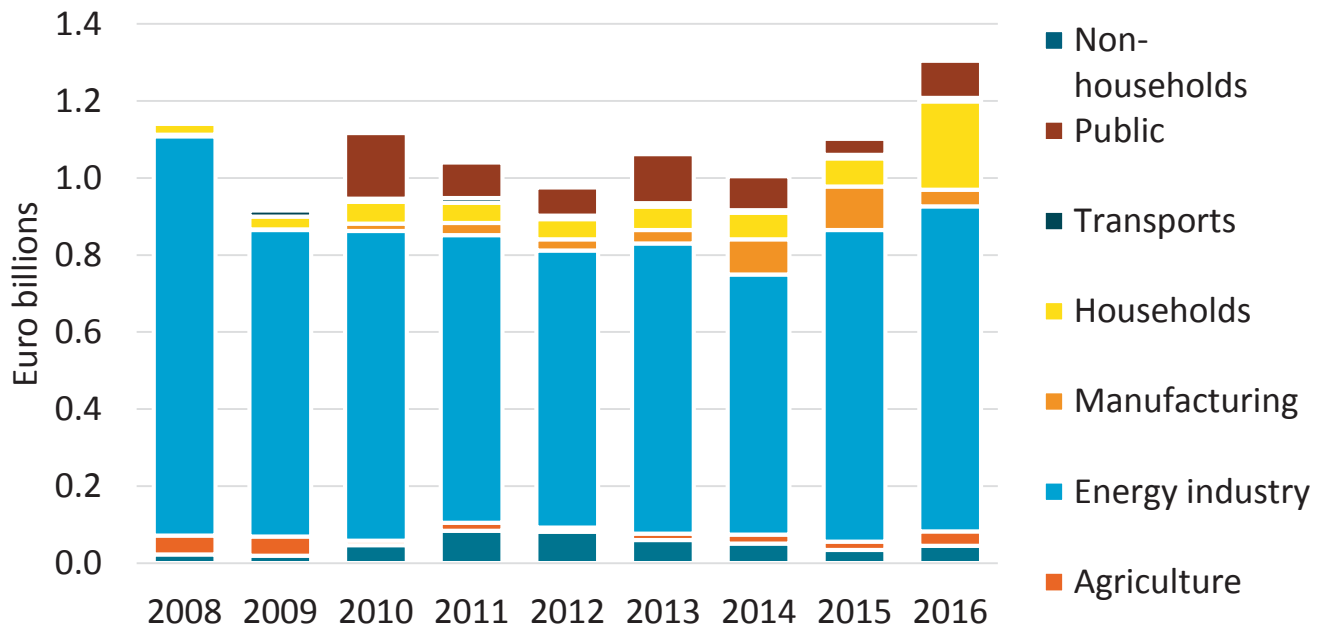
Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

Financial support interventions

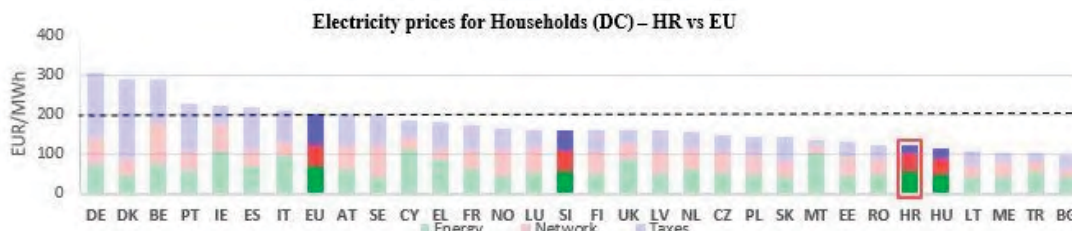
Financial support by energy/technology (billion euros)



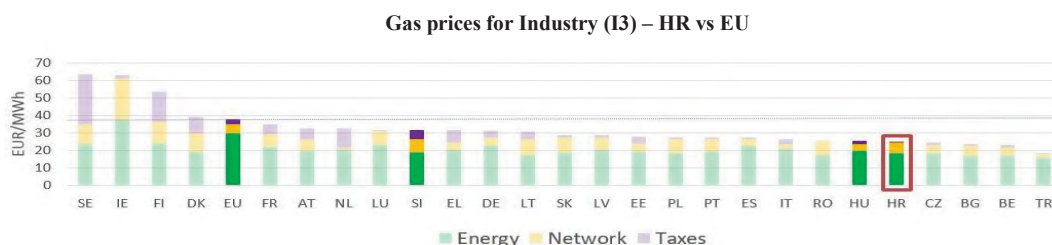
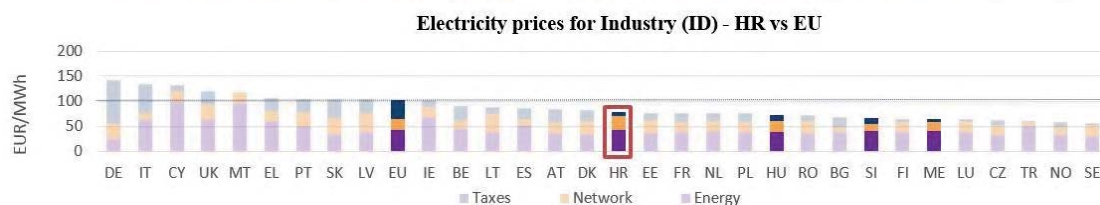
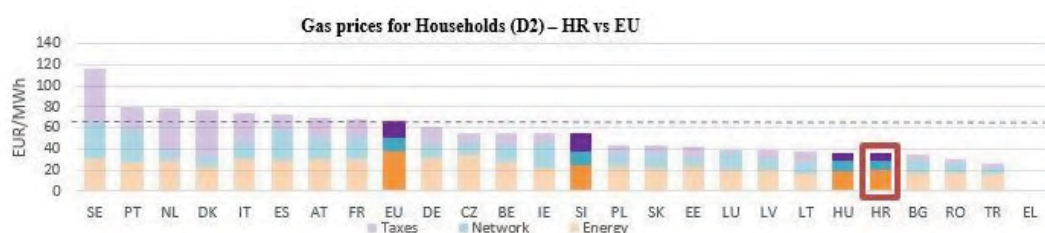
Financial support by sector (billion euros)



Croatia



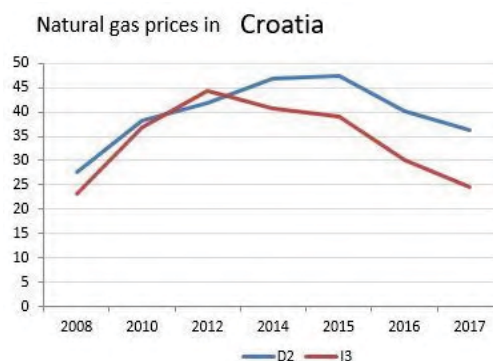
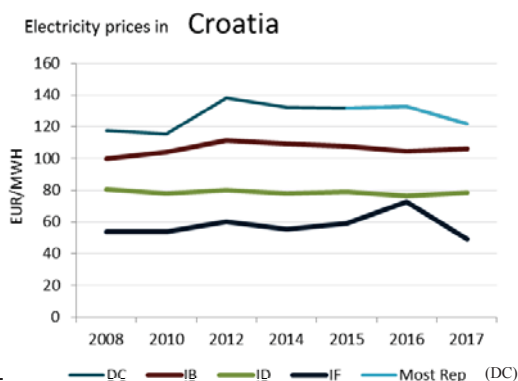
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Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

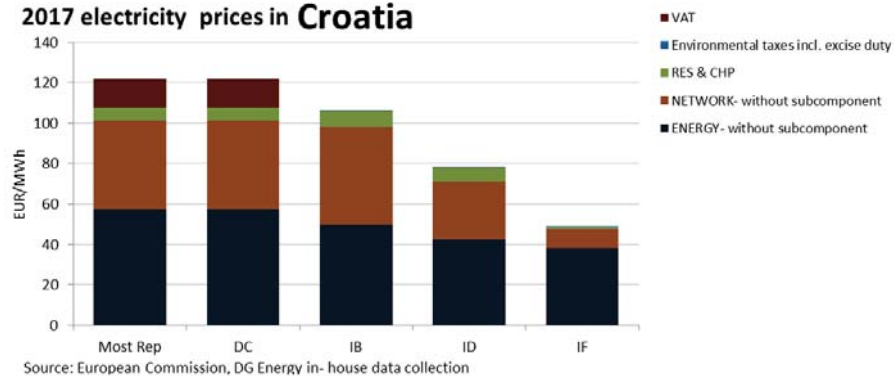
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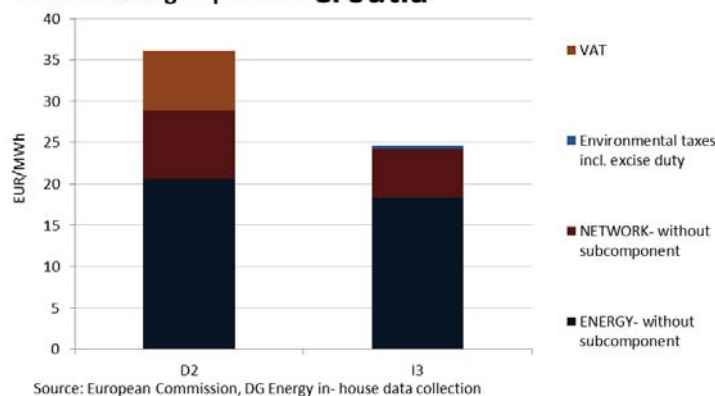
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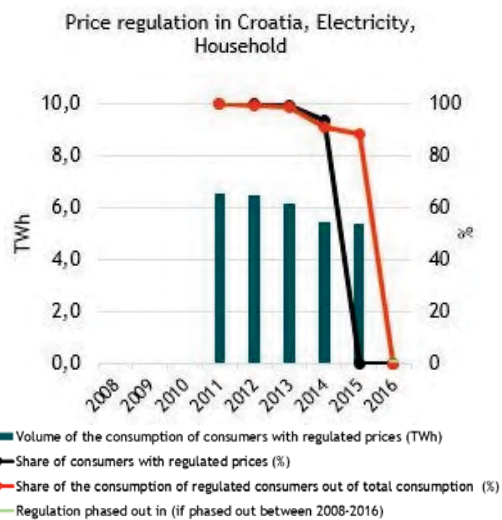
2017 electricity prices in Croatia



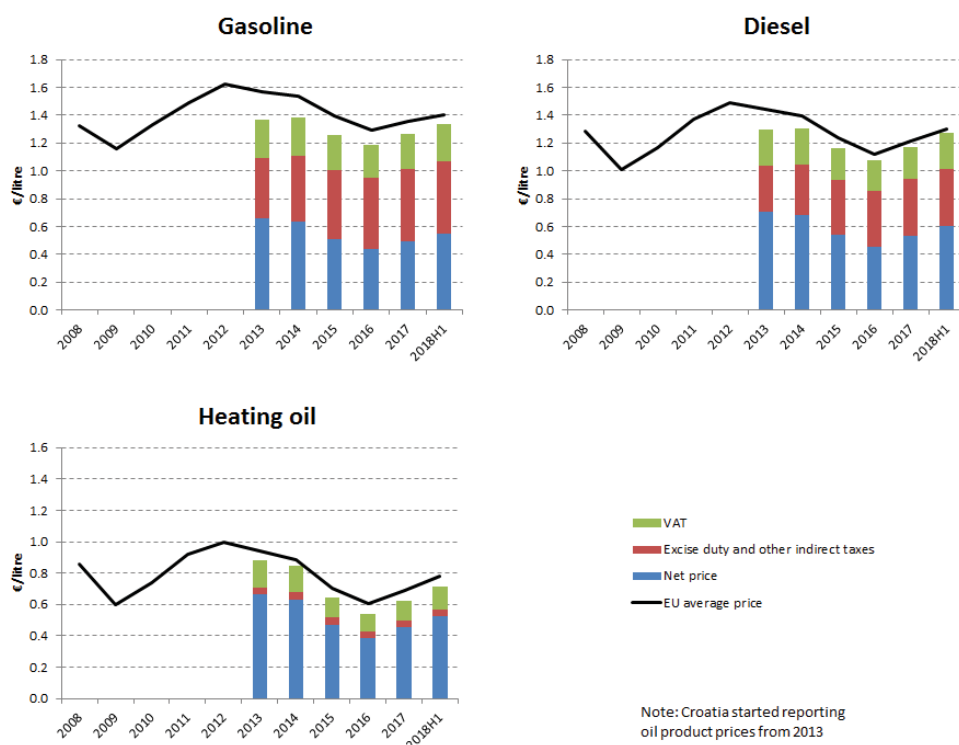
2017 natural gas prices in Croatia



Price regulation



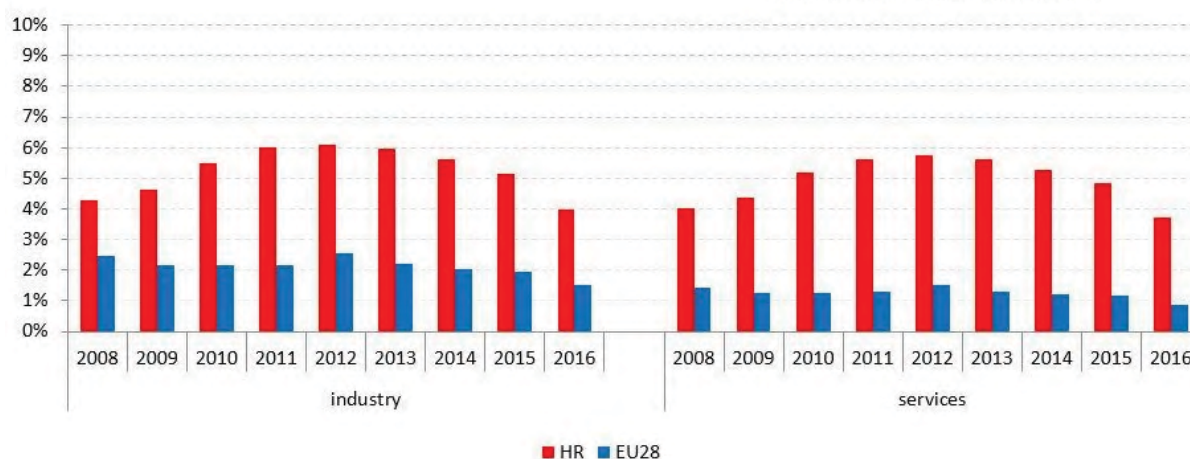
Oil product prices



Energy costs shares in total production costs

Share of energy costs in total production value in industry and services: HR vs. EU28

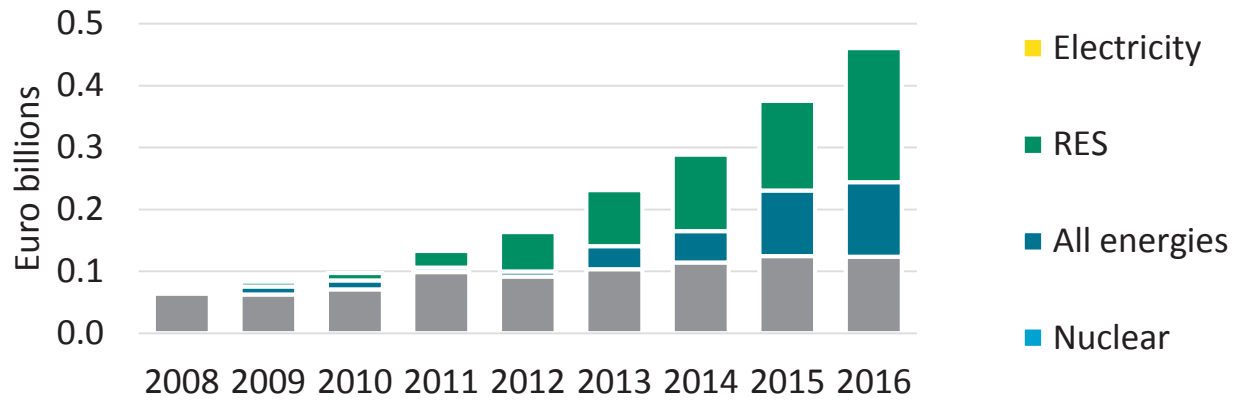
Source: ESTAT (SBS; NA), Primes, own calculations



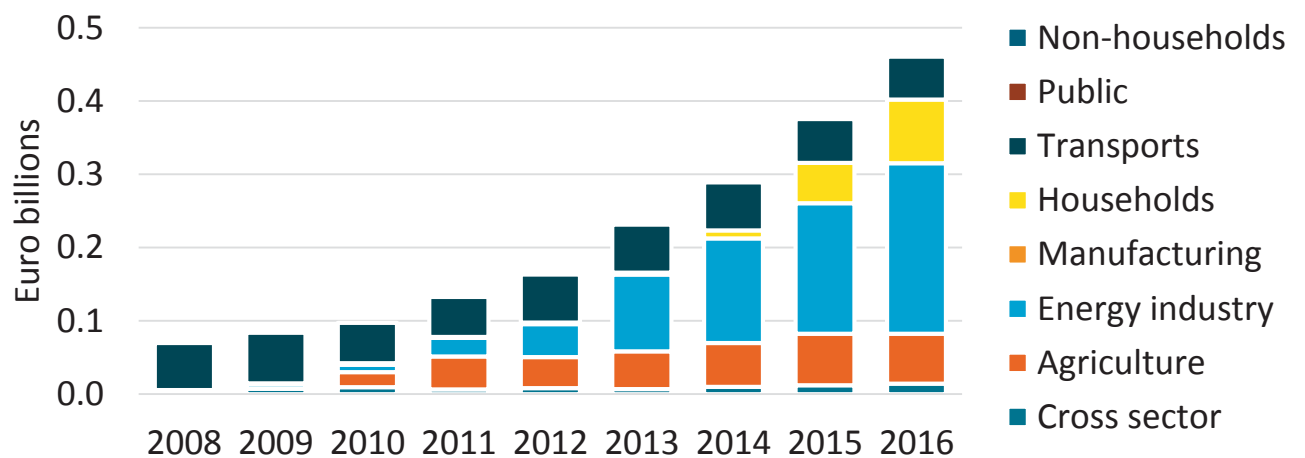
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Financial support interventions

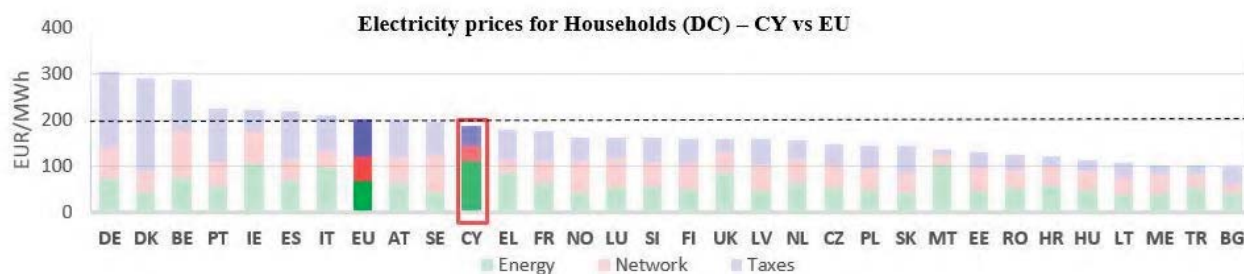
Financial support by energy/technology (billion euros)



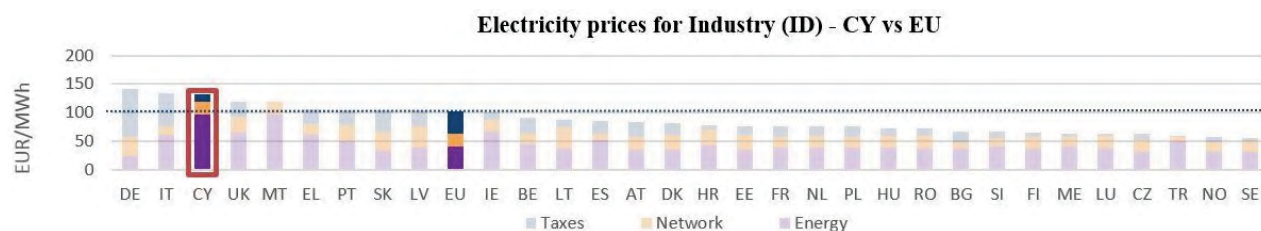
Financial support by sector (billion euros)



Cyprus



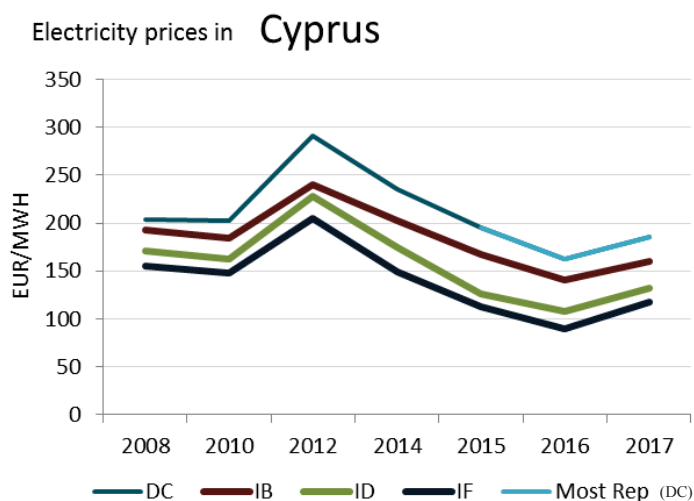
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Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

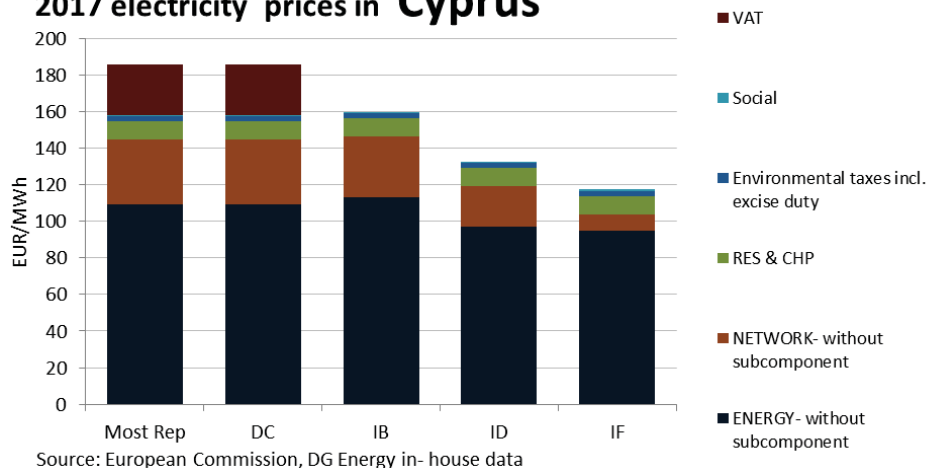
See footnote ²



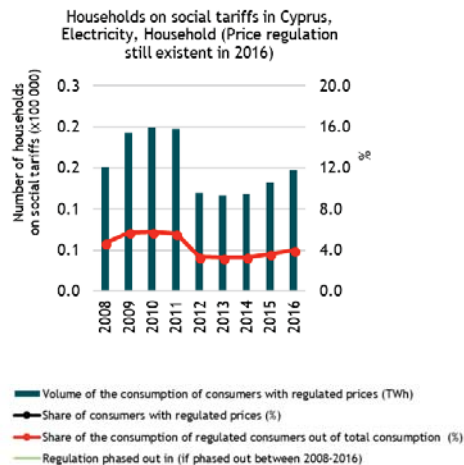
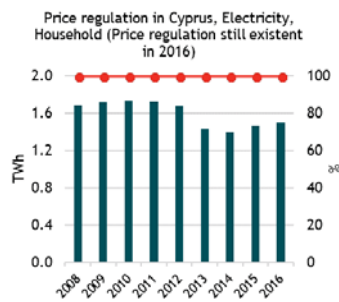
¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017.

² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.

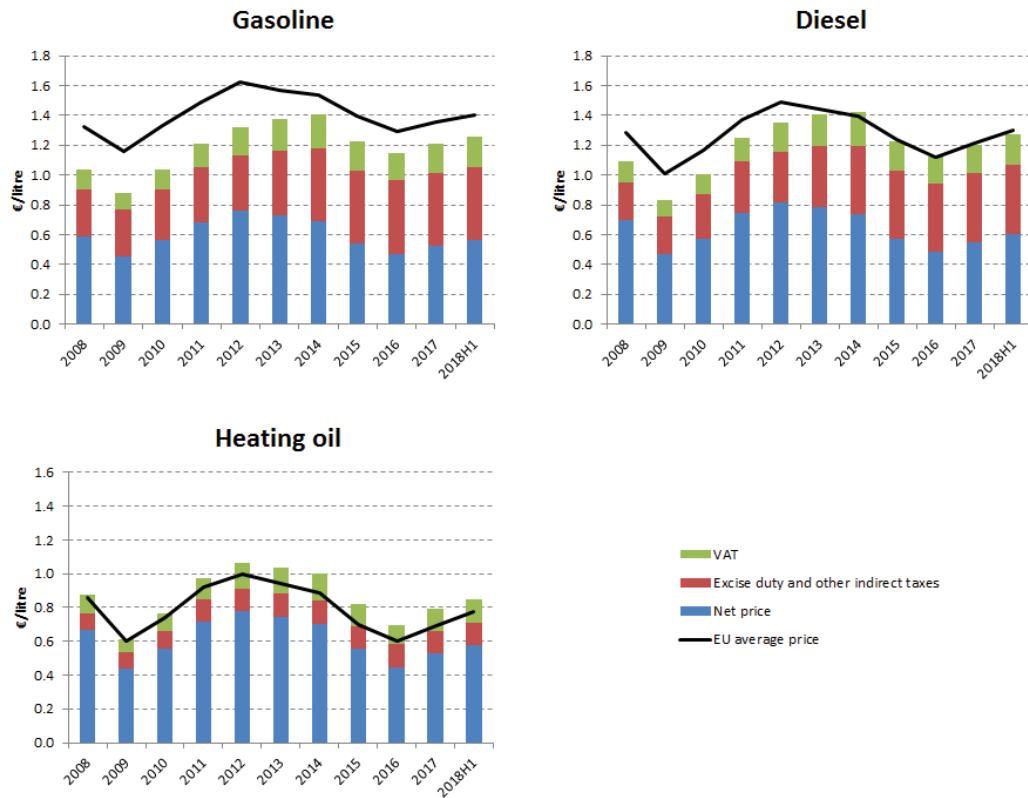
2017 electricity prices in Cyprus



Price regulation



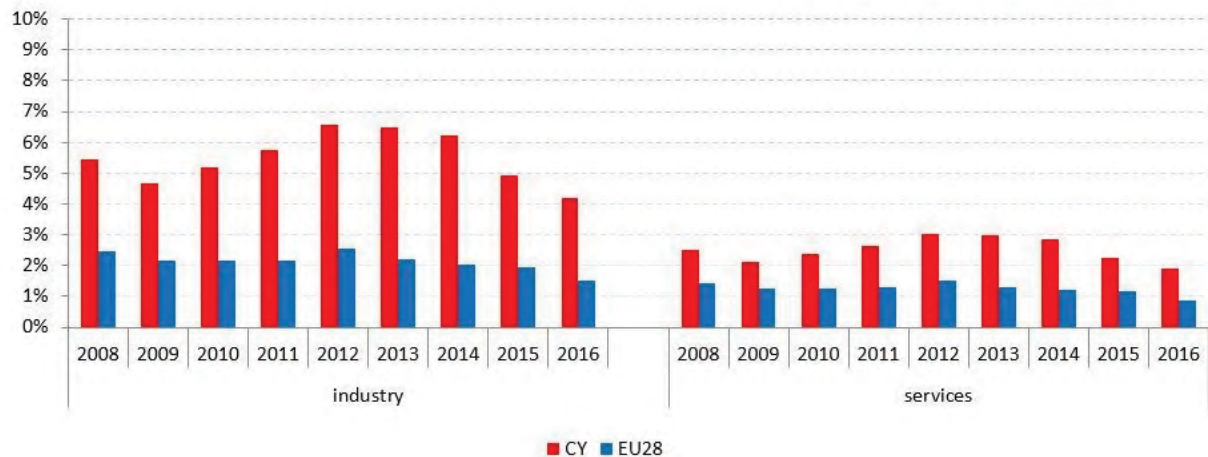
Oil products prices



Energy costs shares in total production costs

Share of energy costs in total production value in industry and services: CY vs. EU28

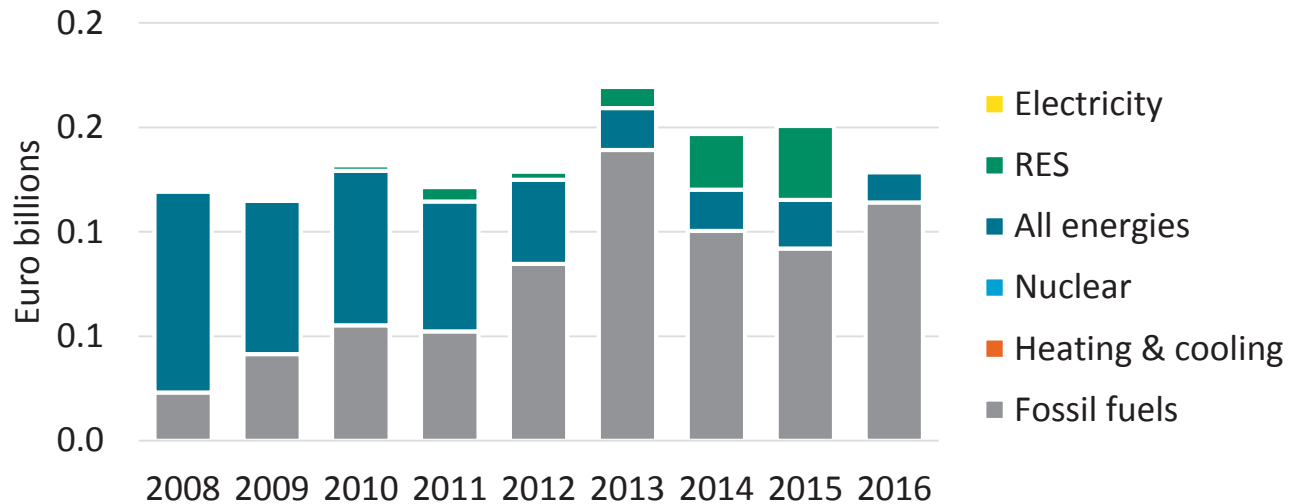
Source: ESTAT (SBS, NA), Primes, own calculations



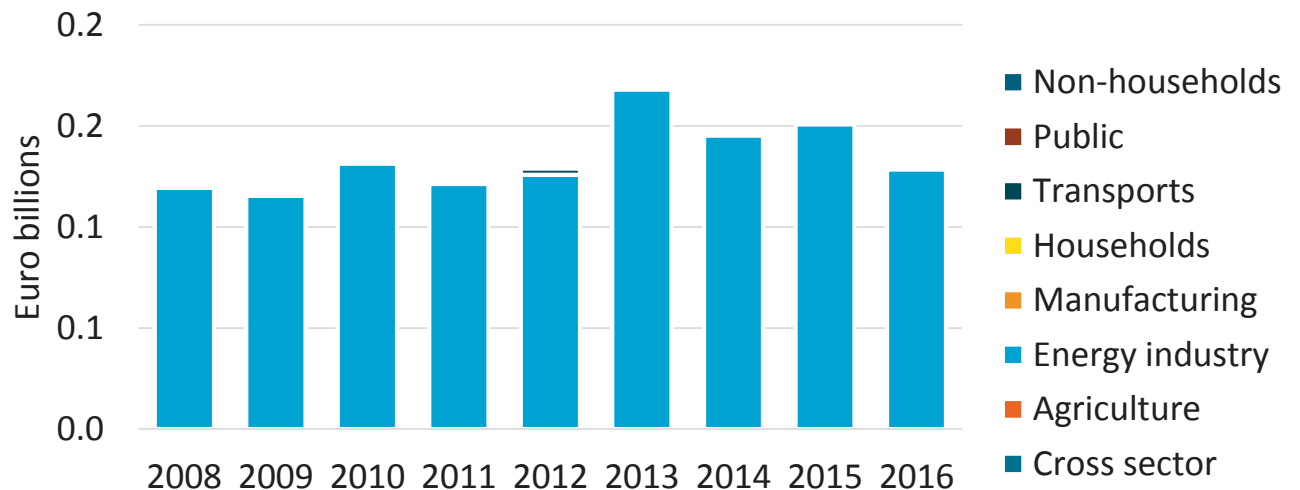
Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

Financial support interventions

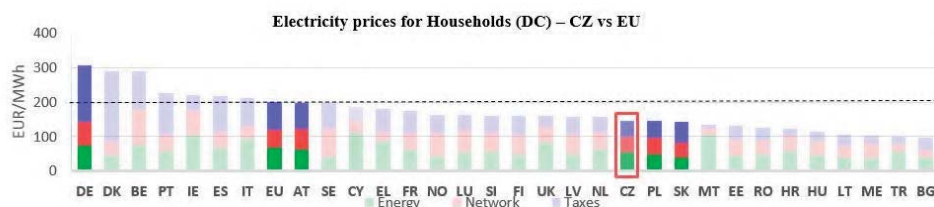
Financial support by energy/technology (billion euros)



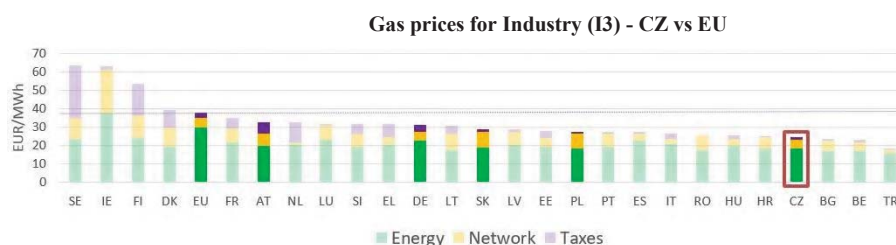
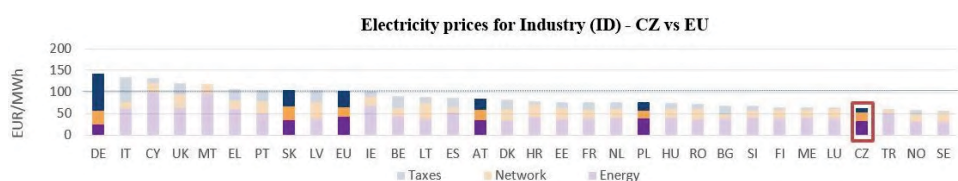
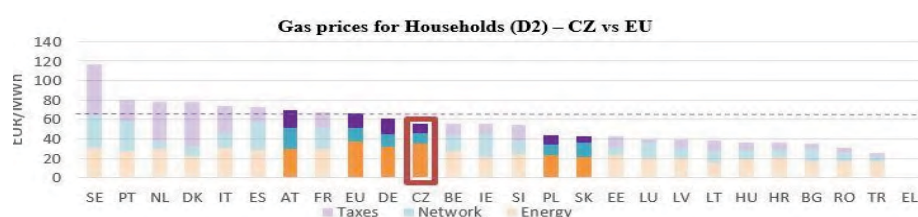
Financial support by sector (billion euros)



Czech Republic



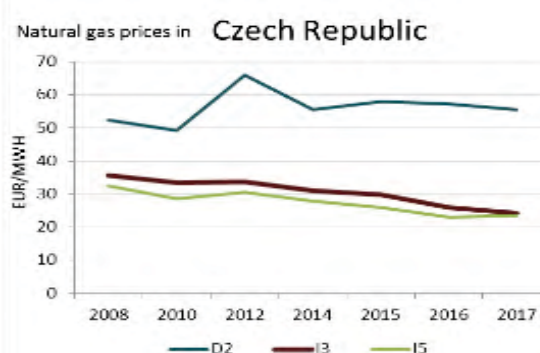
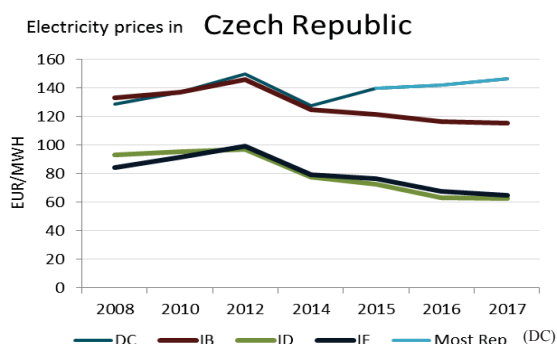
See footnote ¹



Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

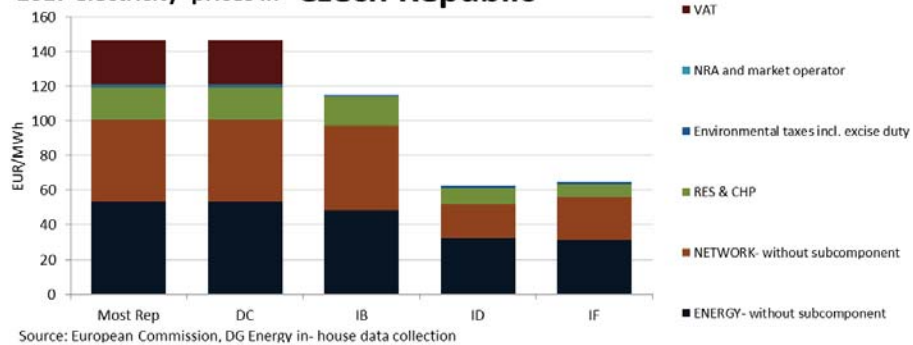
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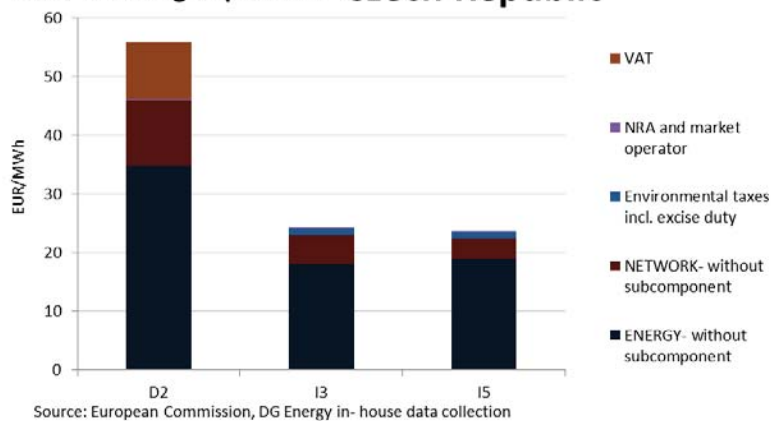
¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017.

² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.

2017 electricity prices in Czech Republic

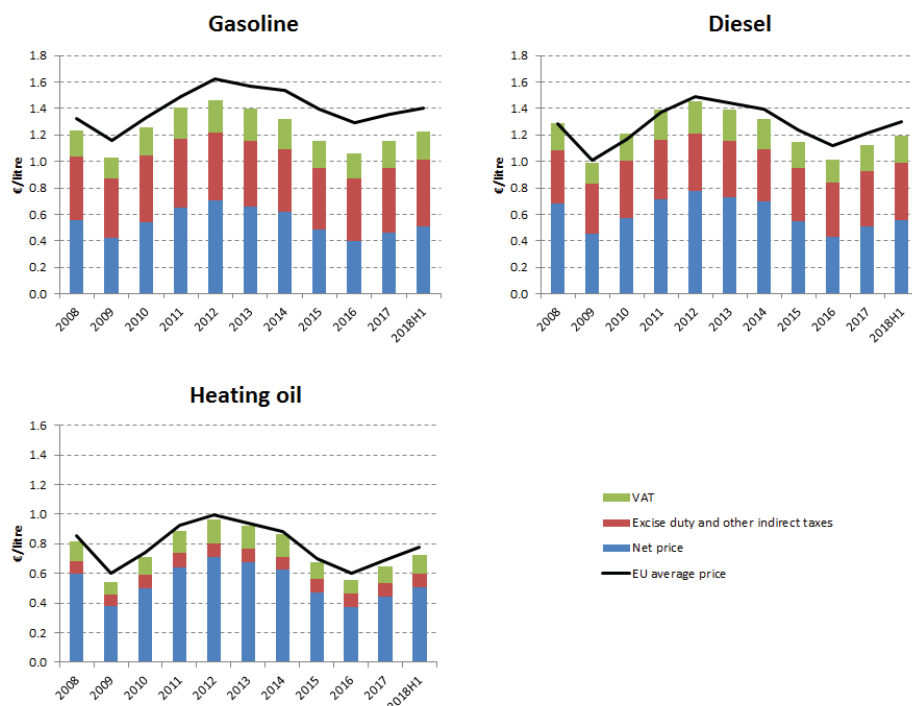


2017 natural gas prices in Czech Republic



This country liberalised prices before 2008.
No social tariffs identified.

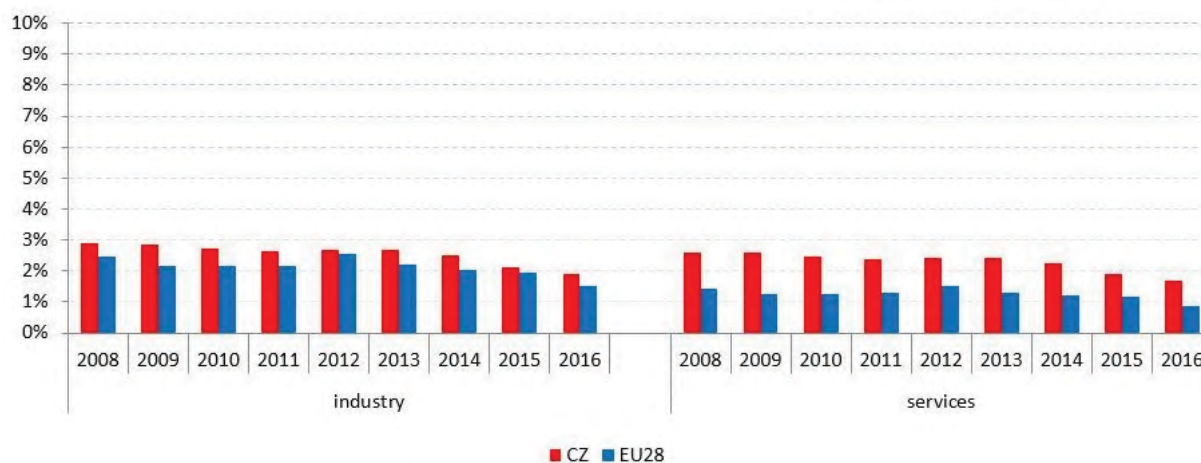
Oil products prices



Energy costs shares in total production costs

Share of energy costs in total production value in industry and services: CZ vs. EU28

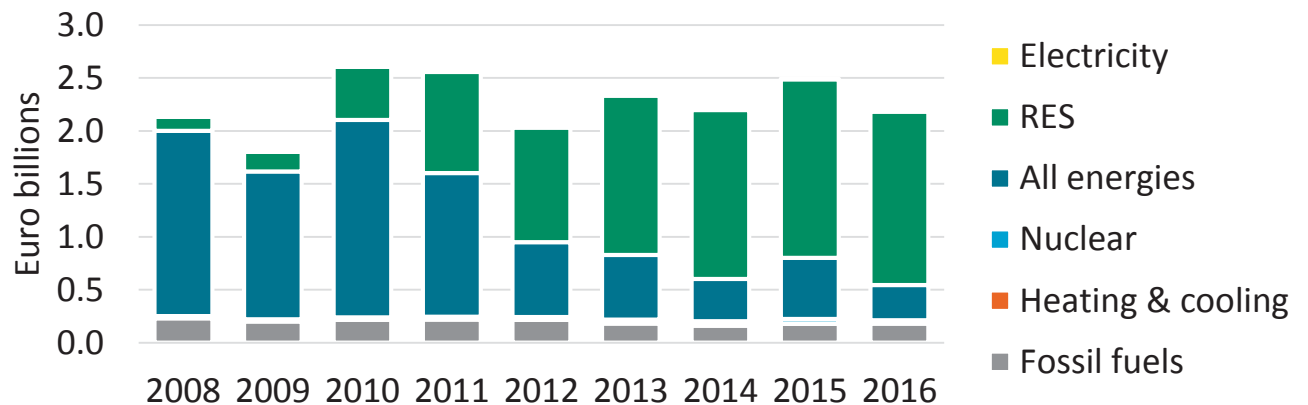
Source: ESTAT (SBS, NA), Primes, own calculations



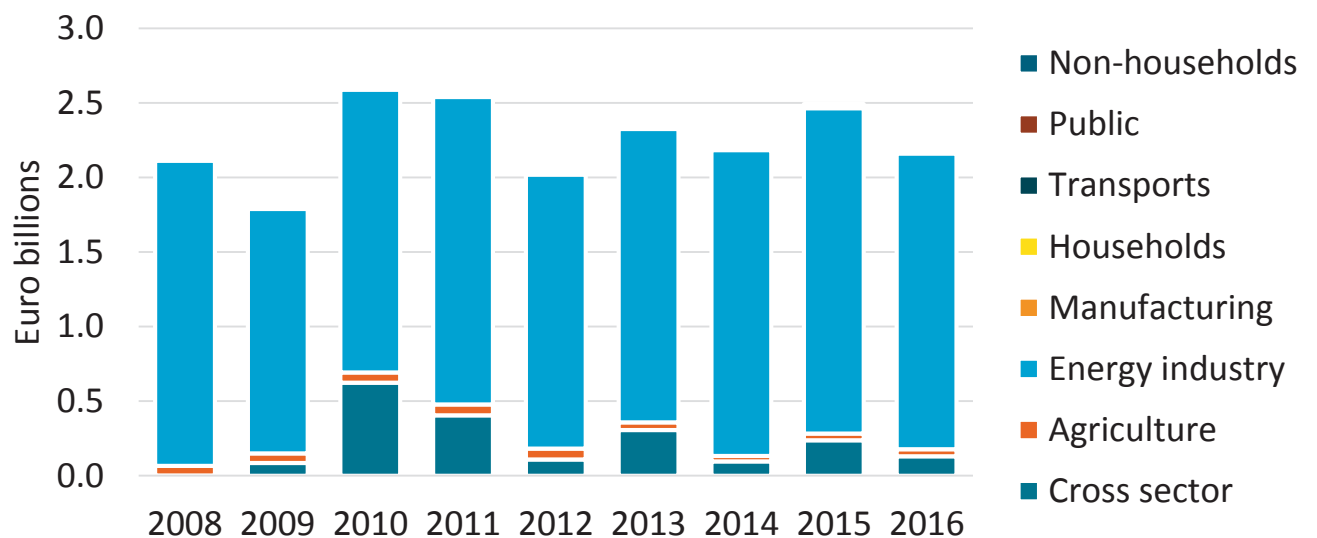
Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

Financial support interventions

Financial support by energy/technology (billion euros)



Financial support by sector (billion euros)



Denmark

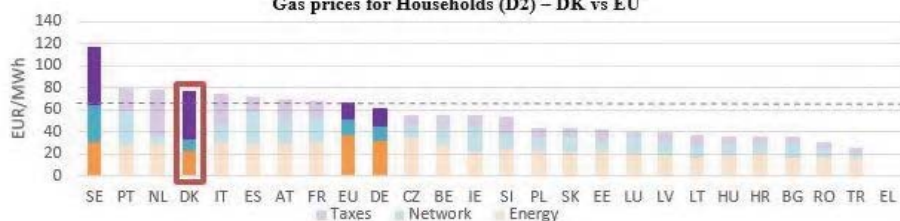


Electricity prices for Households (DC) – DK vs EU

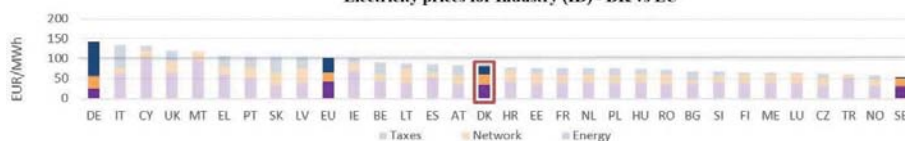


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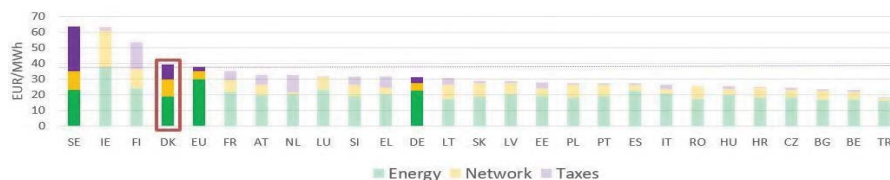
Gas prices for Households (D2) – DK vs EU



Electricity prices for Industry (ID) – DK vs EU



Gas prices for Industry (I3) – DK vs EU

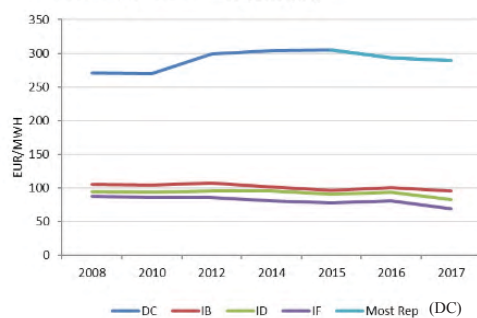


Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

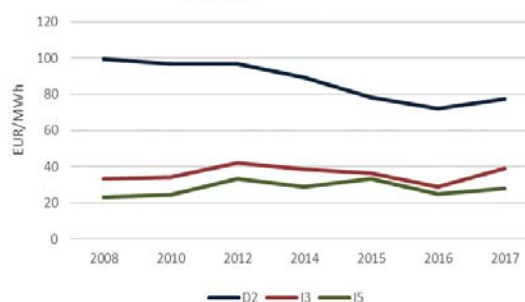
Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

See footnote ²

Electricity prices in Denmark

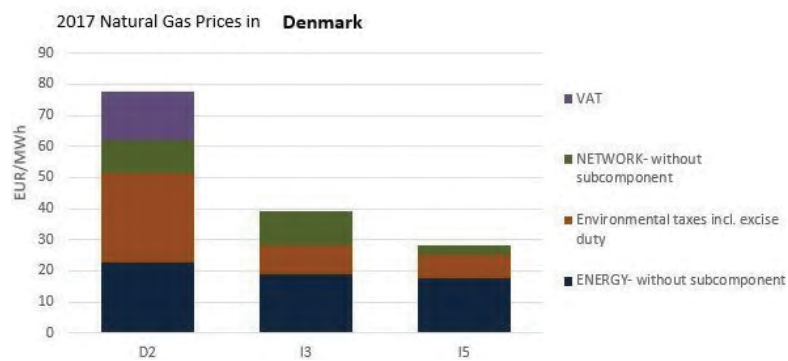
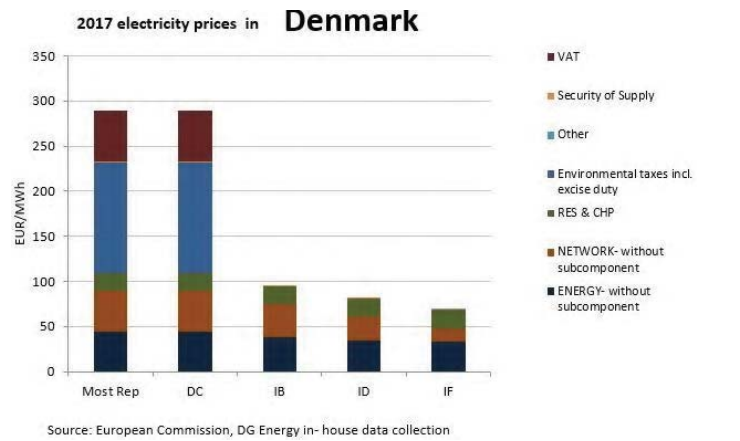


Natural Gas Prices in Denmark

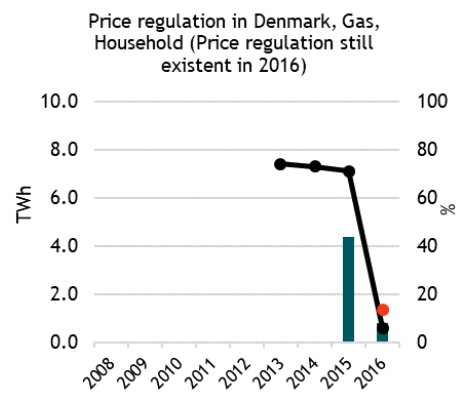
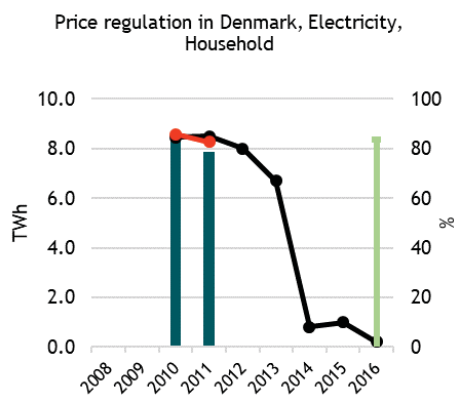


¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017.

² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.

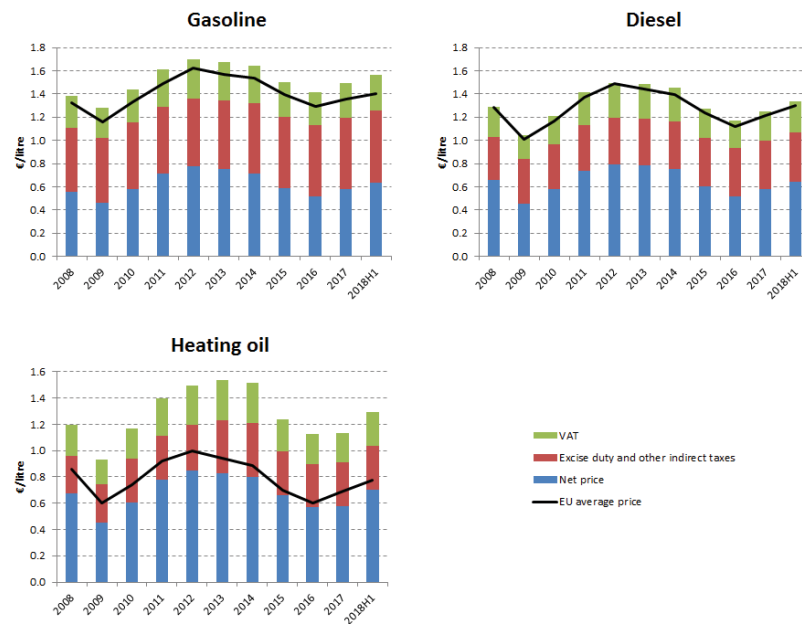


Price regulation



- Volume of the consumption of consumers with regulated prices (TWh)
- Share of consumers with regulated prices (%)
- Share of the consumption of regulated consumers out of total consumption (%)
- Regulation phased out in (if phased out between 2008-2016)

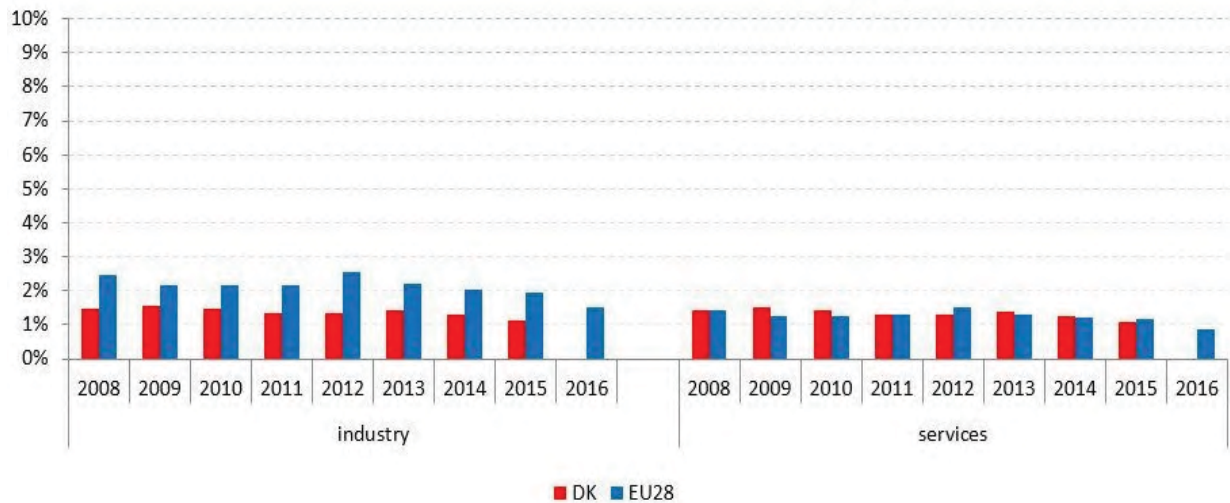
Oil products prices



Energy costs shares in total production costs

Share of energy costs in total production value in industry and services: DK vs. EU28

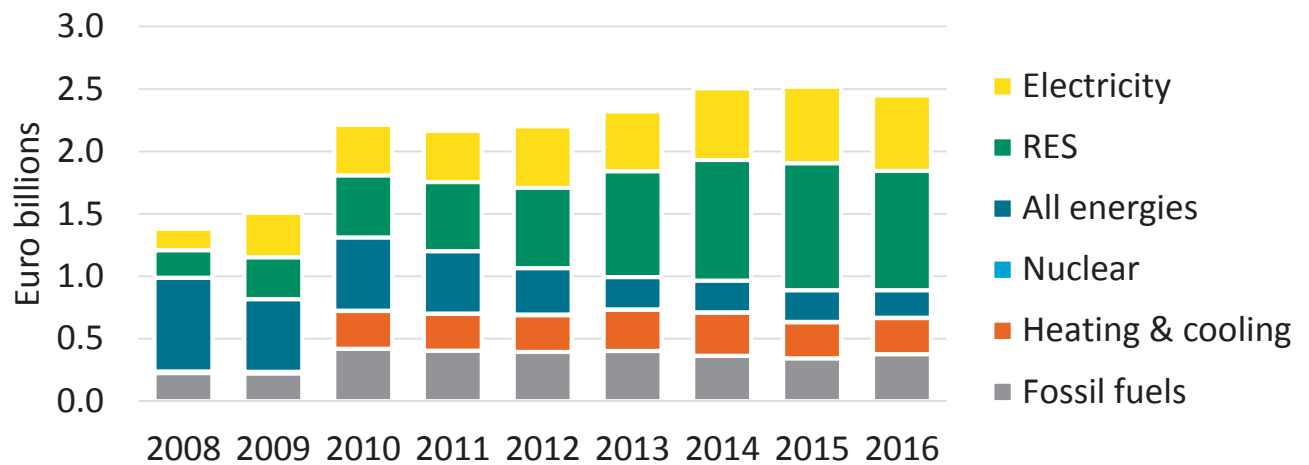
Source: ESTAT (SBS; NA), Primes, own calculations



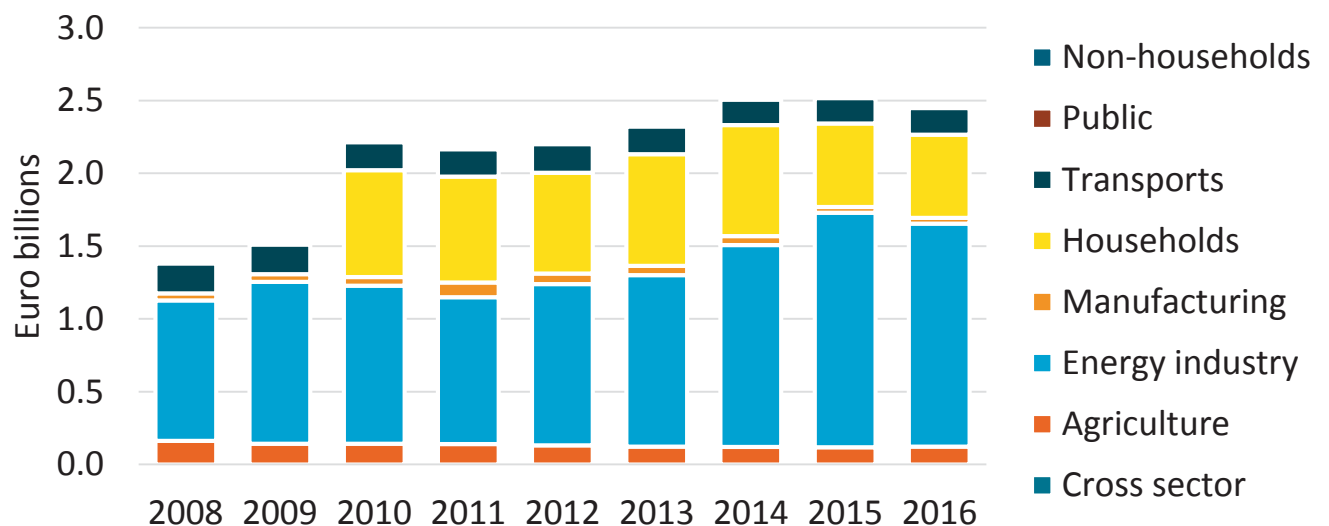
Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

Financial support interventions

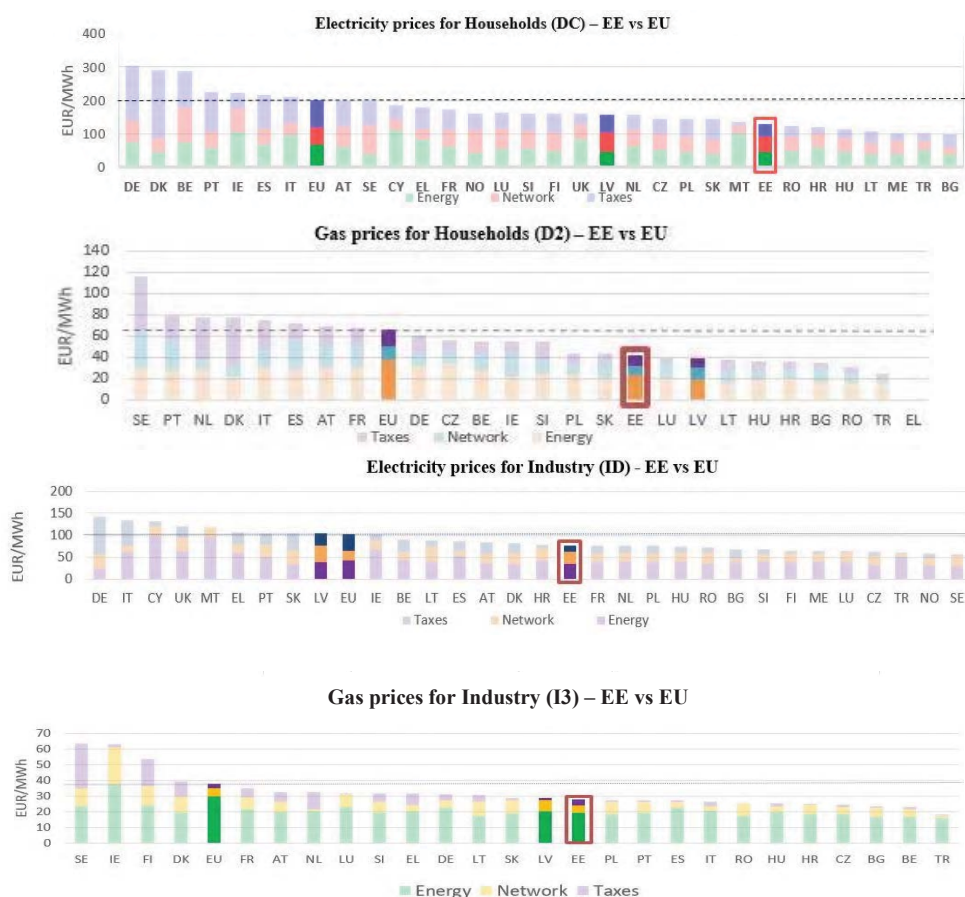
Financial support by energy/technology (billion euros)



Financial support by sector (billion euros)



Estonia

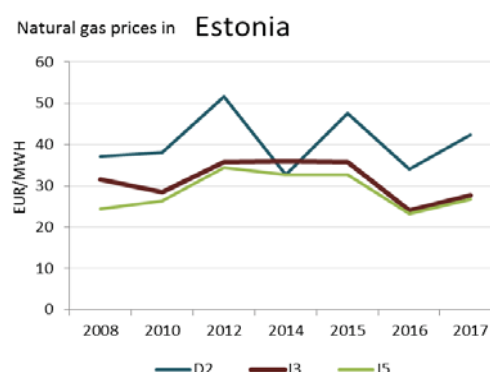
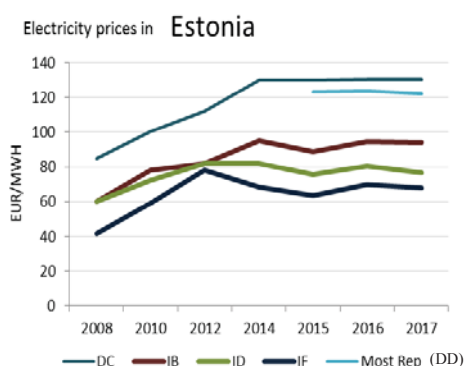


See footnote ¹

Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

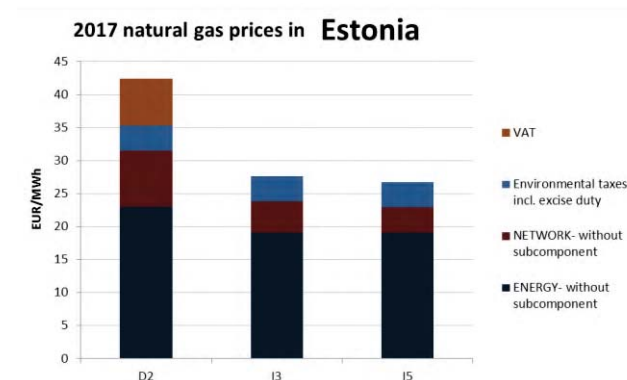
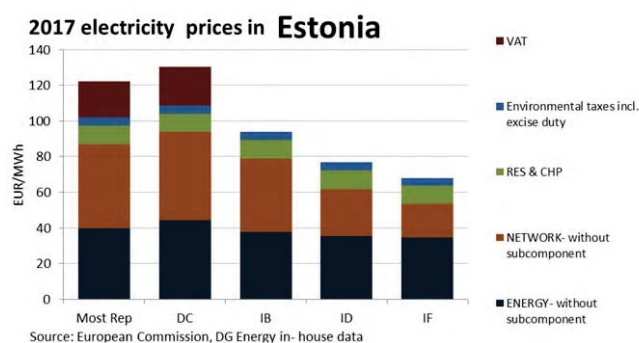
Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

See footnote ²

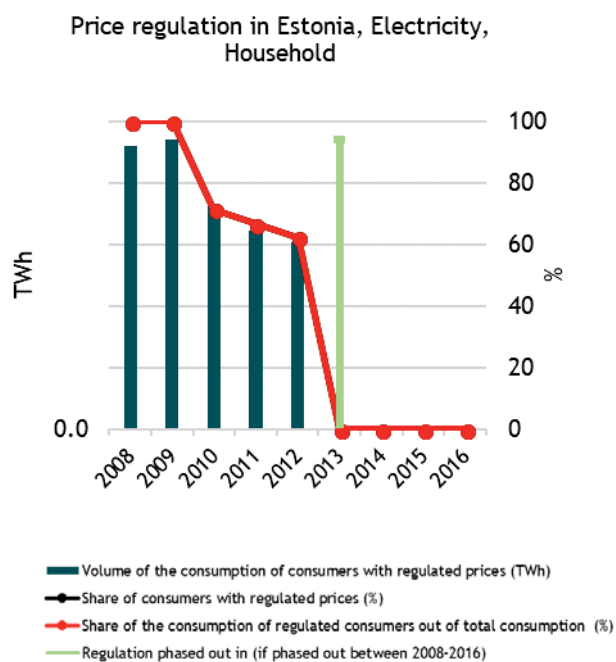


¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017.

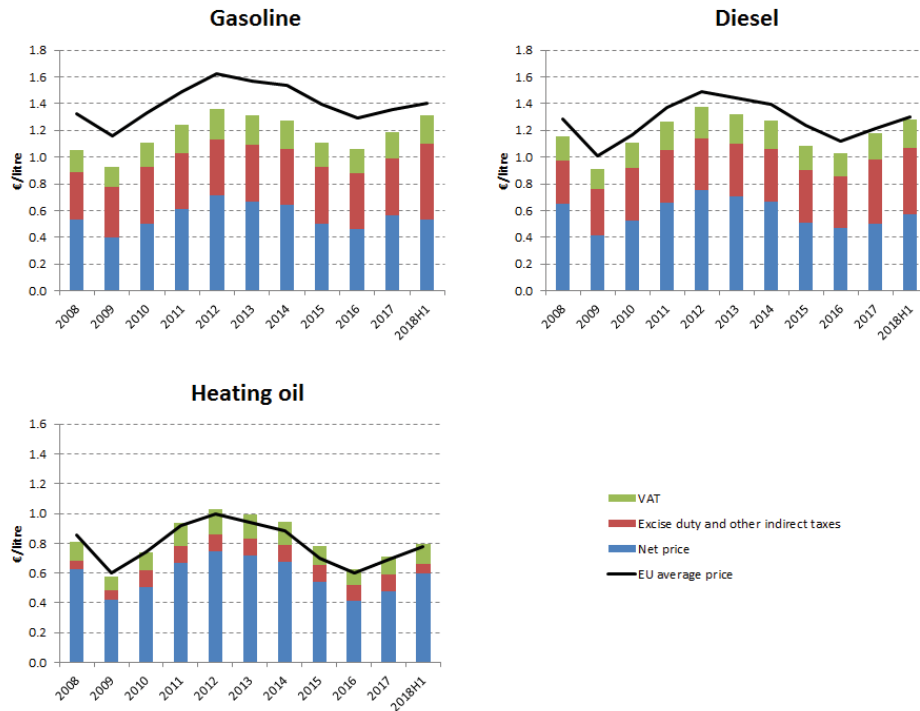
² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.



Price regulation



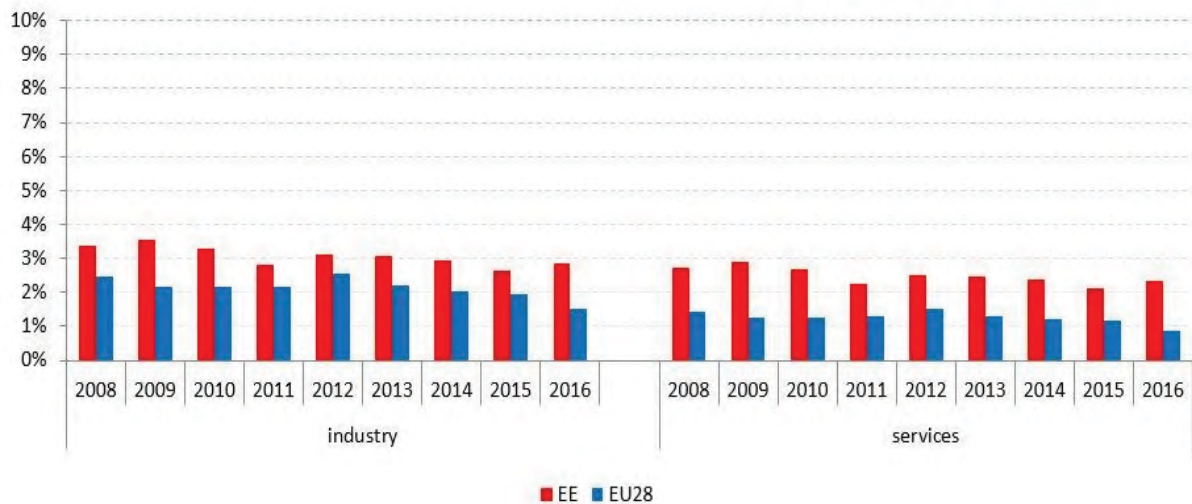
Oil prices



Energy costs shares in total production costs

Share of energy costs in total production value in industry and services: EE vs. EU28

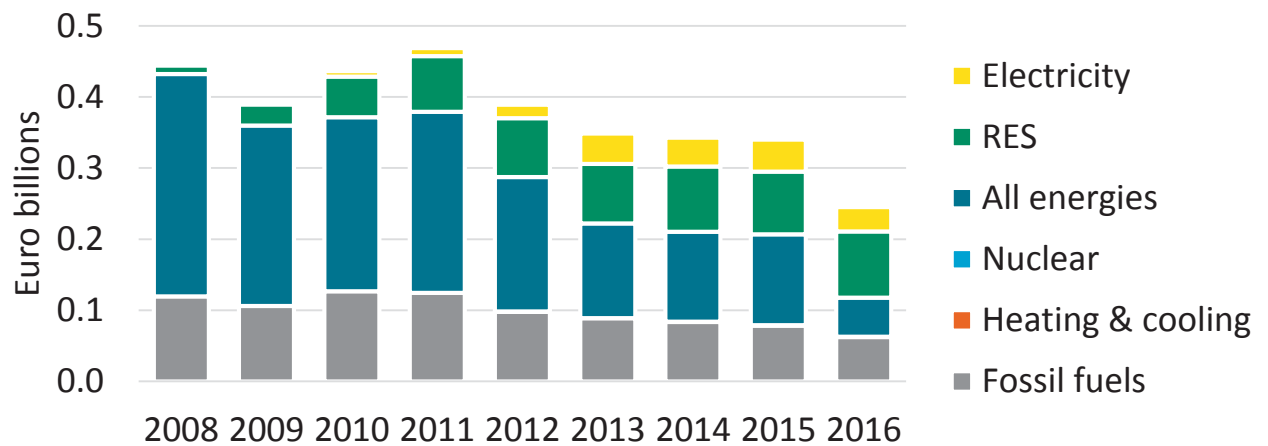
Source: ESTAT (SBS, NA), Primes, own calculations



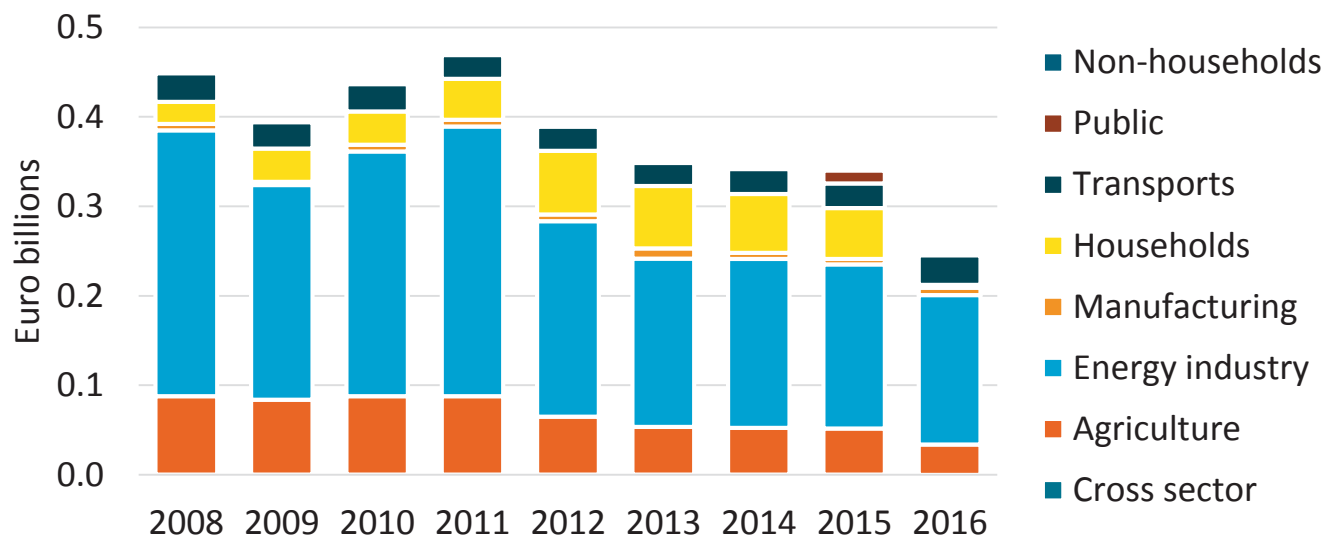
Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

Financial support interventions

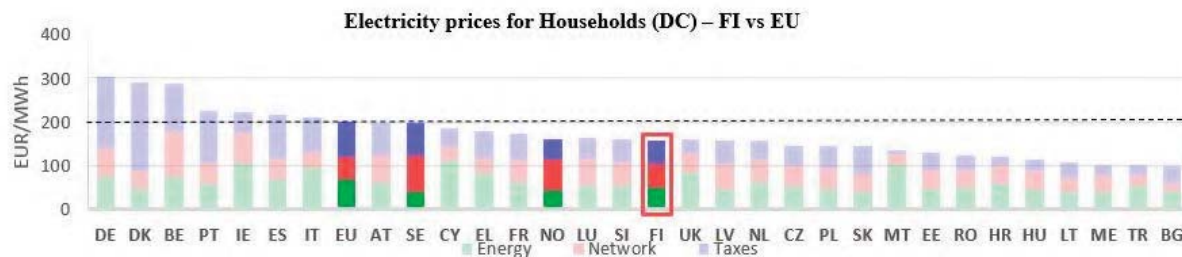
Financial support by energy/technology (billion euros)



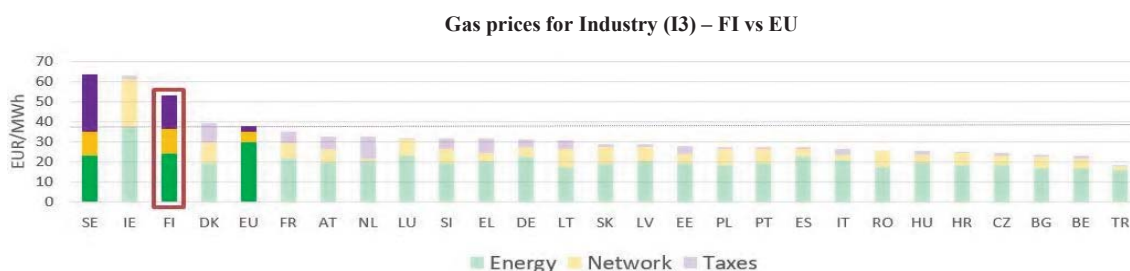
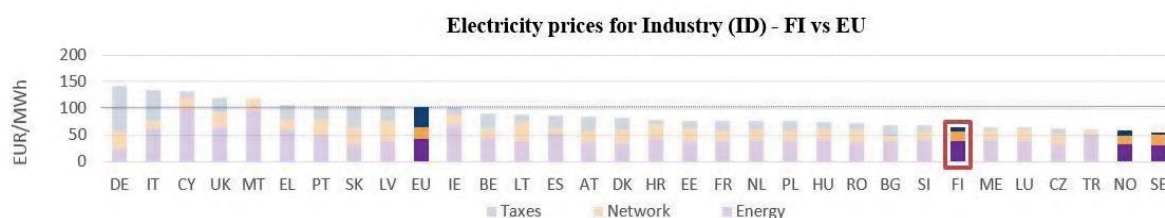
Financial support by sector (billion euros)



Finland



See footnote ¹

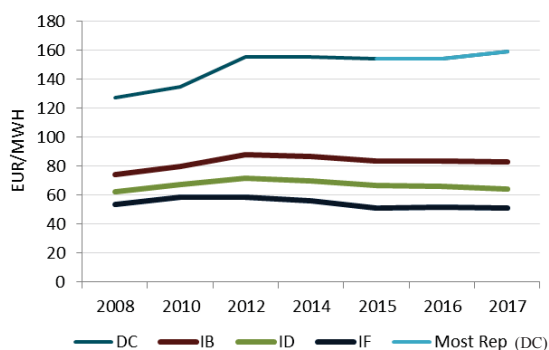


Electricity	DC	IB	ID	IF
	Household	Small Industry	Medium Industry	Large Industry

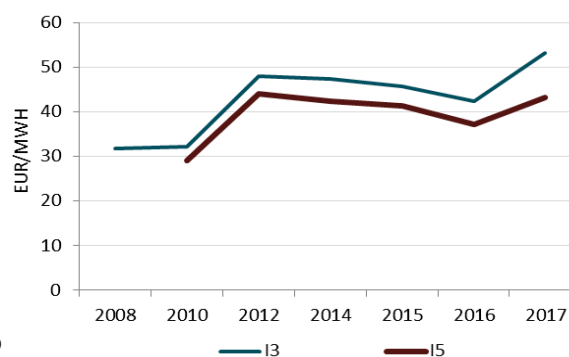
Gas	D2	I3	I5
	Household	Medium Industry	Large Industry

See footnote ²

Electricity prices in Finland



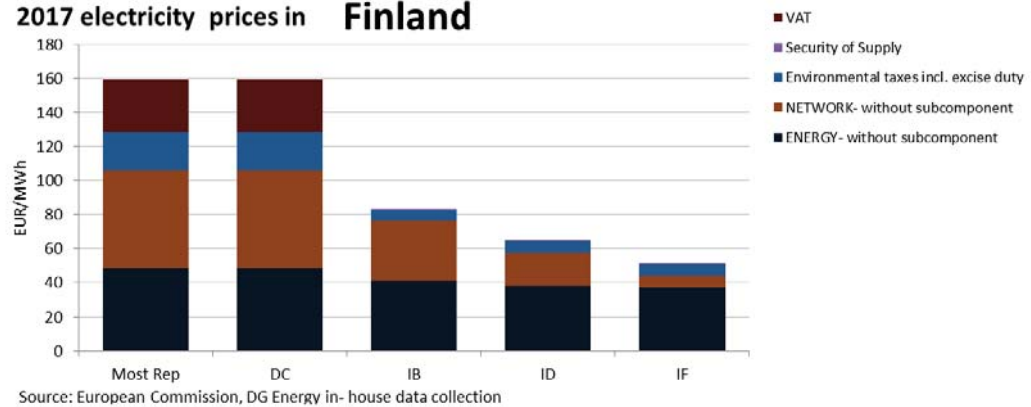
Natural gas prices in Finland



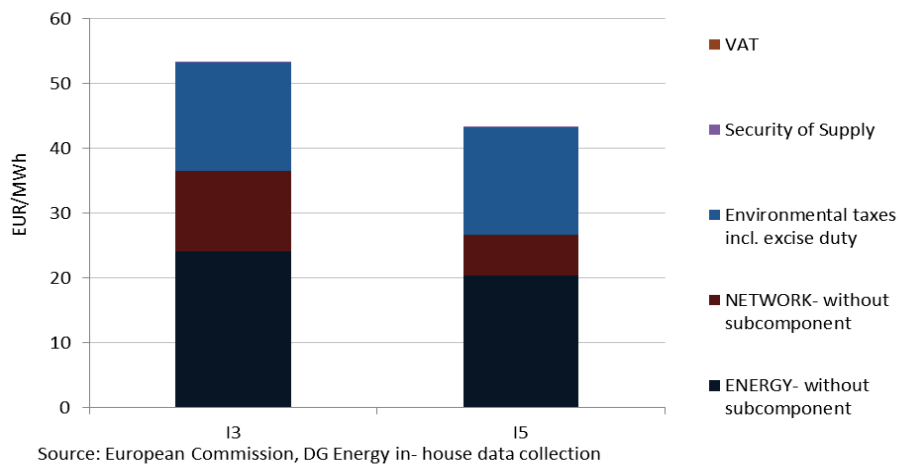
¹ Neighbour countries and EU 28. No gas household prices available for Greece for 2017.

² Annual electricity consumption: DB 1 - 2.5 MWh, DC 2.5 - 5 MWh, DD 5 - 15 MWh, DE above 15 MWh, IB 20-500 MWh, ID 2000-20000 MWh, IF 70000-150000 MWh. Annual Gas consumption: D2 20-200 GJ, I3 10000-100000 GJ, I5 1 mil - 4 mil GJ.

2017 electricity prices in Finland

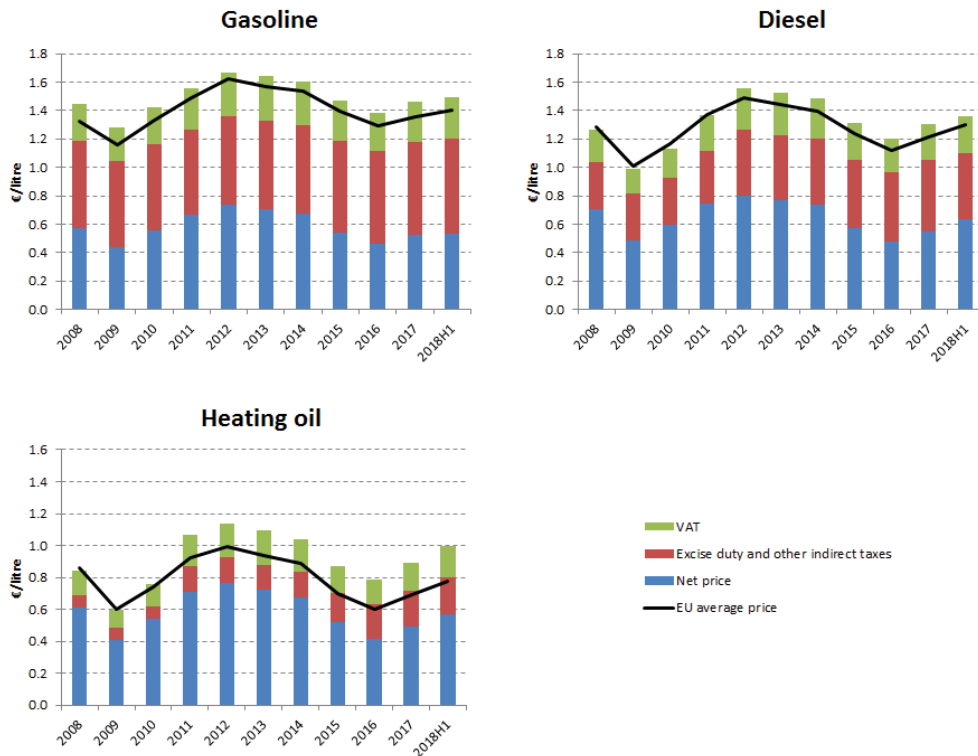


2017 Natural gas prices in Finland



This country liberalised prices before 2008.
No social tariffs identified.

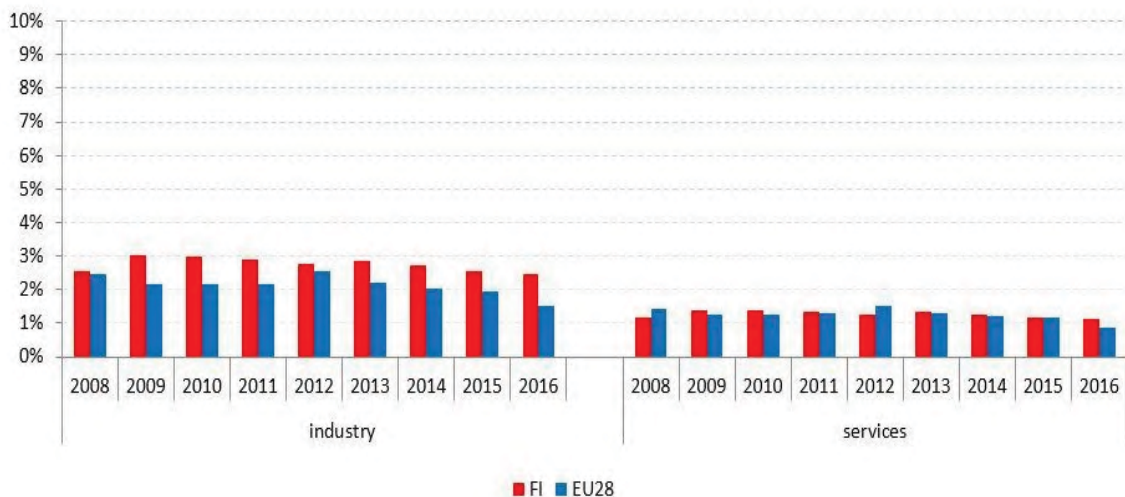
Oil products prices



Energy costs shares in total production costs

Share of energy costs in total production value in industry and services: FI vs. EU28

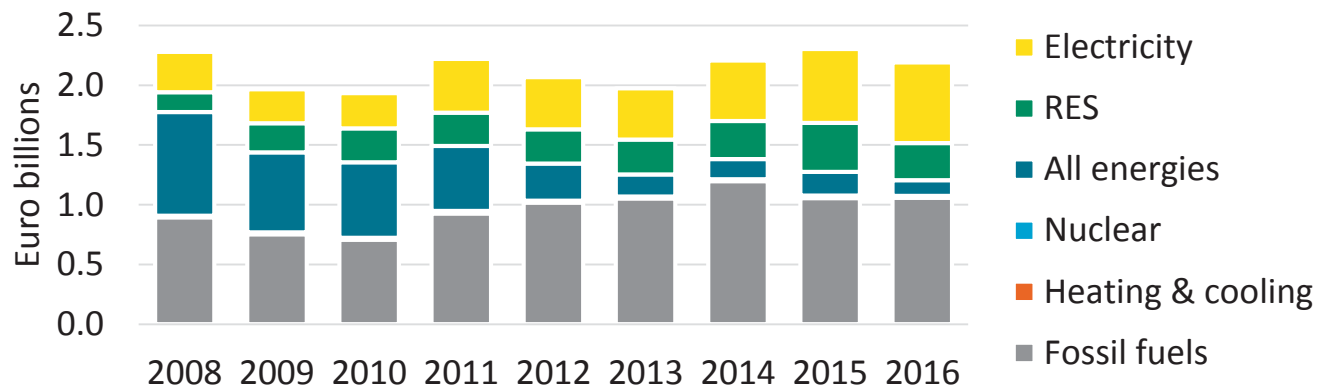
Source: ESTAT (SBS; NA), Primes, own calculations



Notes: Data for Malta (prior to 2016), Poland (prior to 2015), Slovenia (prior to 2012) and Greece (prior to 2008) is not available. Data for Denmark, Sweden and the United Kingdom for 2016 was missing by the time of extraction

Financial support interventions

Financial support by energy/technology (billion euros)



Financial support by sector (billion euros)

