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**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(2016) 769 final}

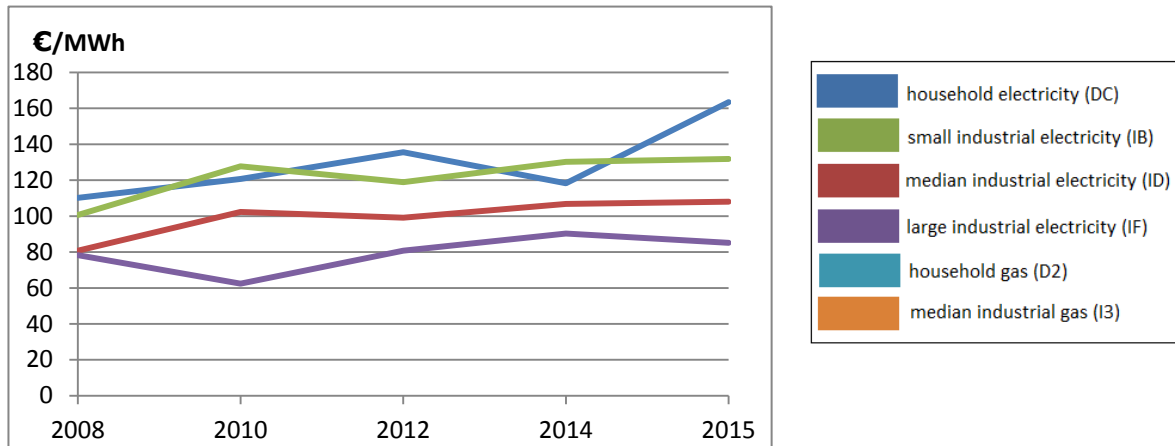
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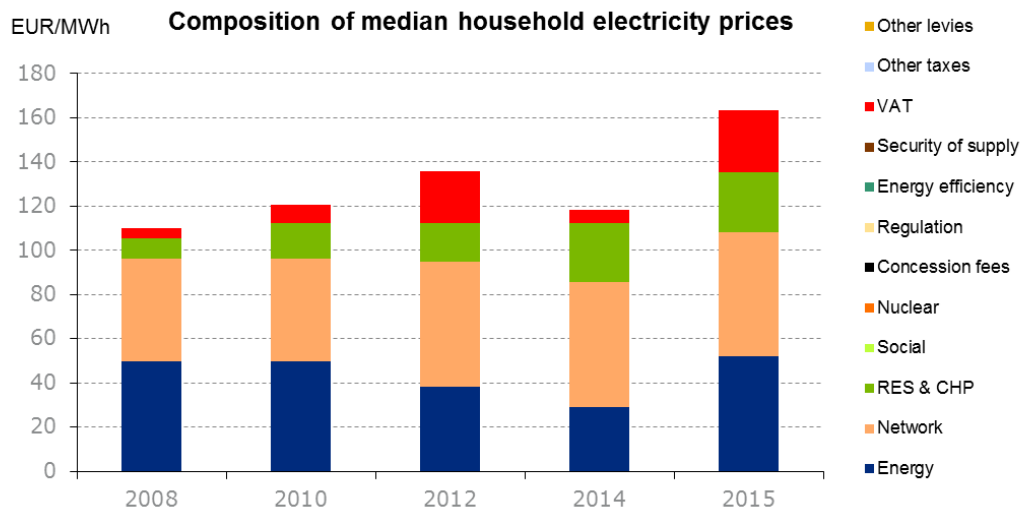
# Latvia

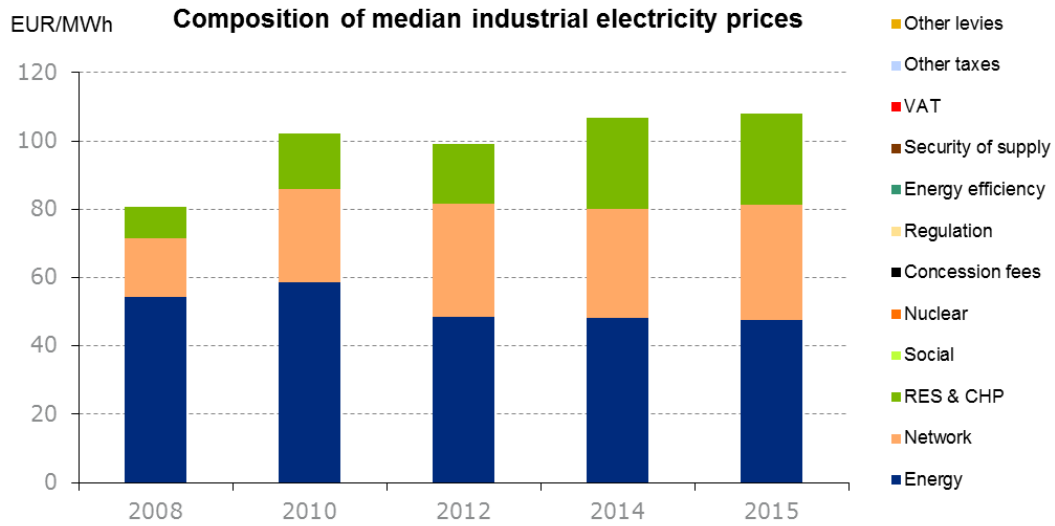


## Evolution of electricity and natural gas prices

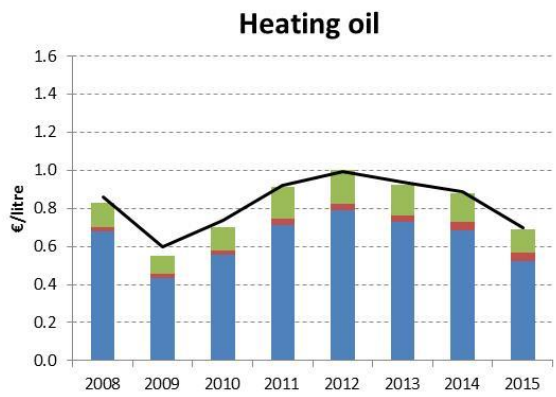
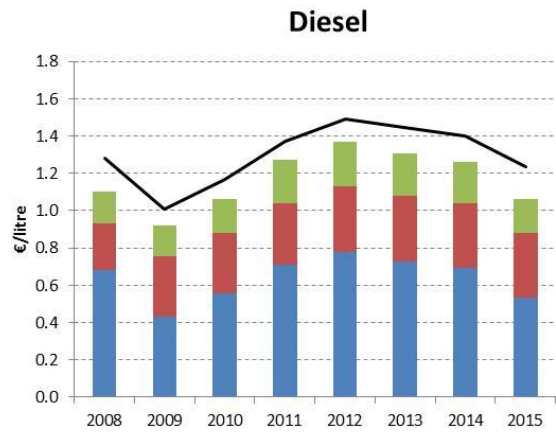
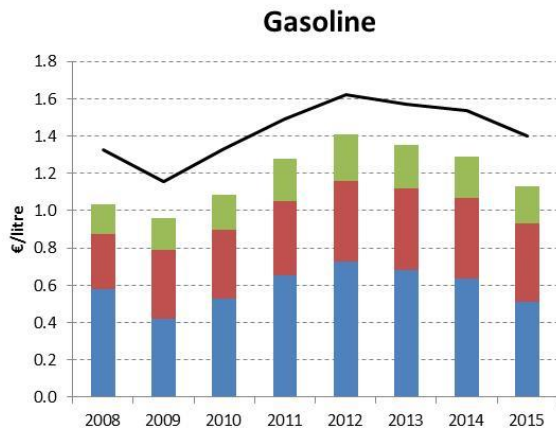


## Composition of electricity prices

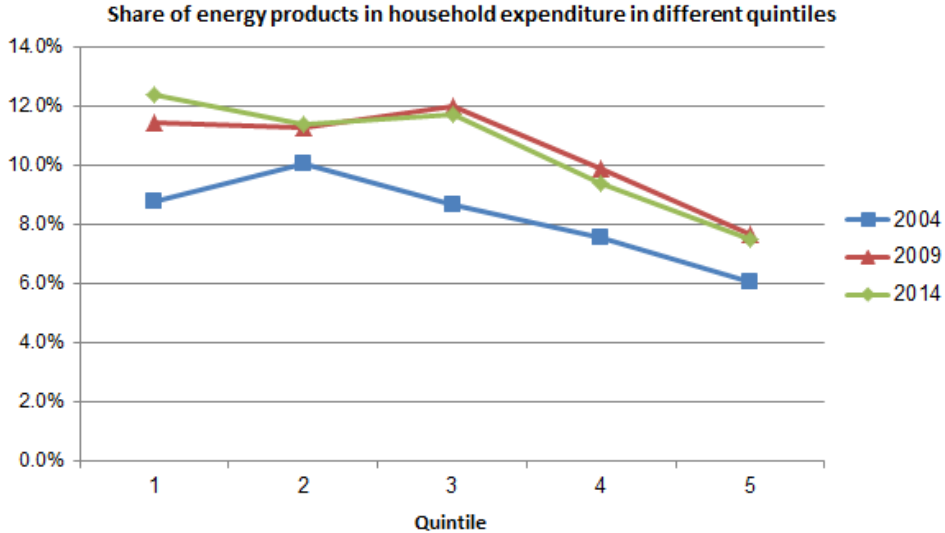




## Oil products prices

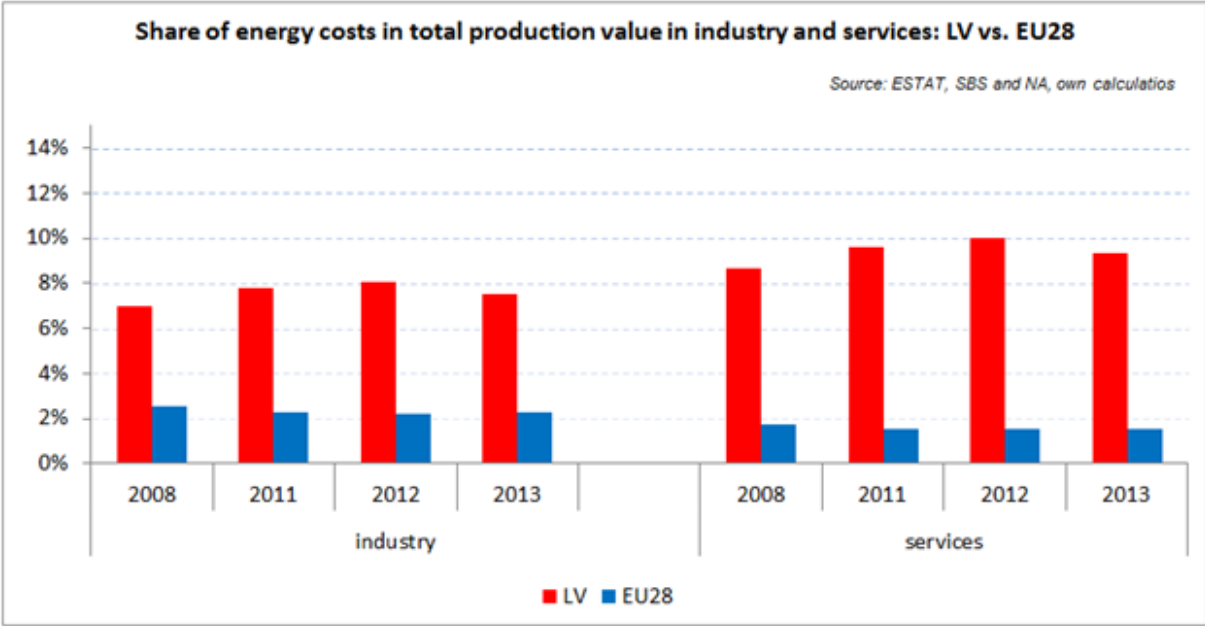


### Energy in Households budgets



Between 2004 (blue line) and 2014 (green line) the share of energy in total household expenditure rose measurably in each income quintile in Latvia; in the case of the poorest households (Quintile 1) it went up from 8.8% to 12.4%, while in the case of households with middle income (Quintile 3) it rose from 8.6% to 11.7%.

### Energy costs shares in total production costs



Notes  
 Data for Malta, Poland, Slovenia (prior to 2012) and Ireland (after 2012) is not available  
 Data for 2009 and 2010 is incomplete and not reported  
 Industry defined as NACE Rev.2 Section C (Manufacturing)  
 Services defined as NACE Rev. 2 Sections G - U

## Electricity and gas prices – Breakdown by price element

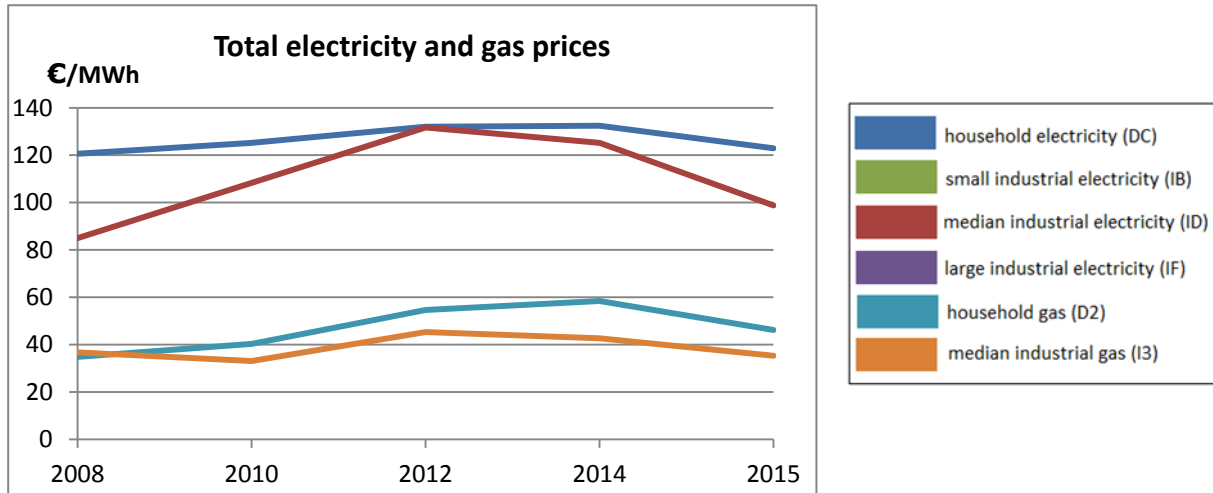
<b>Band DC</b>	<b>EUR/kWh 2015</b>
Energy	0.051900
<b>Total energy component</b>	<b>0.051900</b>
Network	0.056400
<b>Total network component</b>	<b>0.056400</b>
VAT	0.028400
Mandatory procurement component for CHP	0.016700
Mandatory procurement component for renewable energy resources	0.010100
<b>Total taxes &amp; levies component</b>	<b>0.055200</b>
<b>Total price</b>	<b>0.163500</b>
<b>Band ID</b>	<b>EUR/kWh 2015</b>
Energy	0.047600
<b>Total energy component</b>	<b>0.047600</b>
Network	0.033600
<b>Total network component</b>	<b>0.033600</b>
VAT	0.000000
Mandatory procurement component for CHP	0.016700
Mandatory procurement component for renewable energy resources	0.010100
<b>Total taxes &amp; levies component</b>	<b>0.026800</b>
<b>Total price</b>	<b>0.108000</b>

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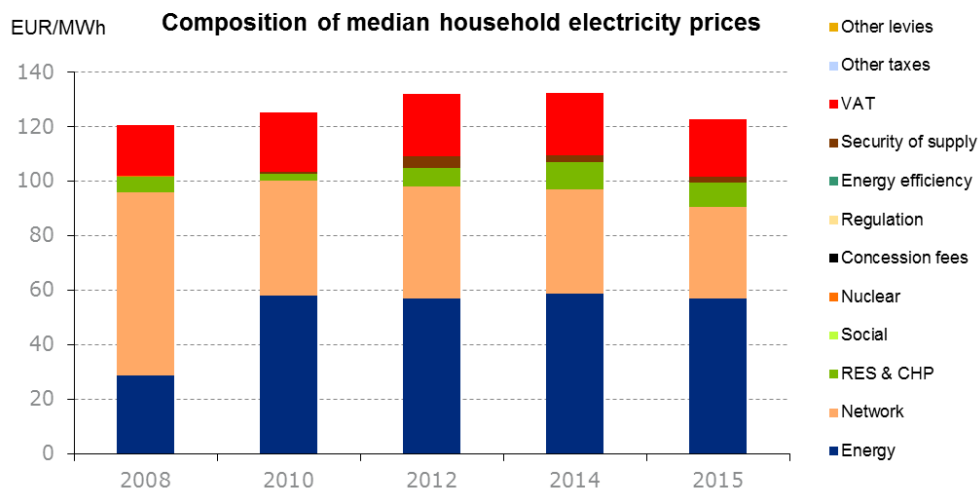
# Lithuania

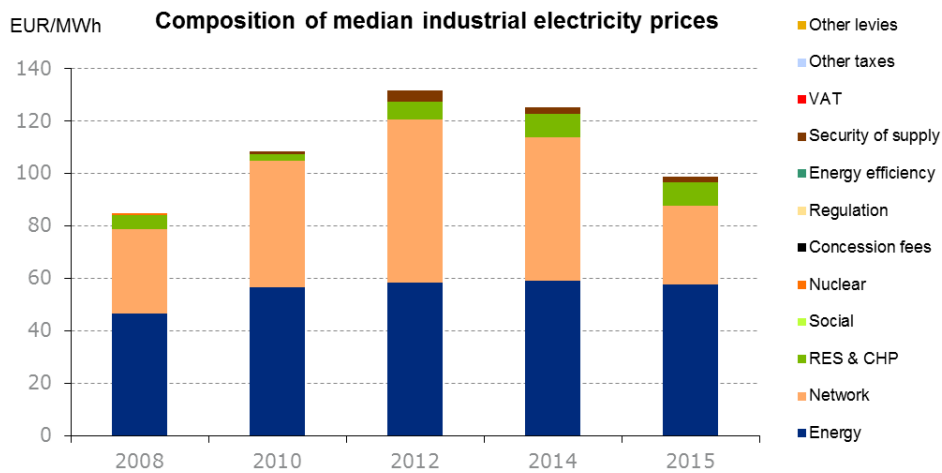


## Evolution of electricity and natural gas prices



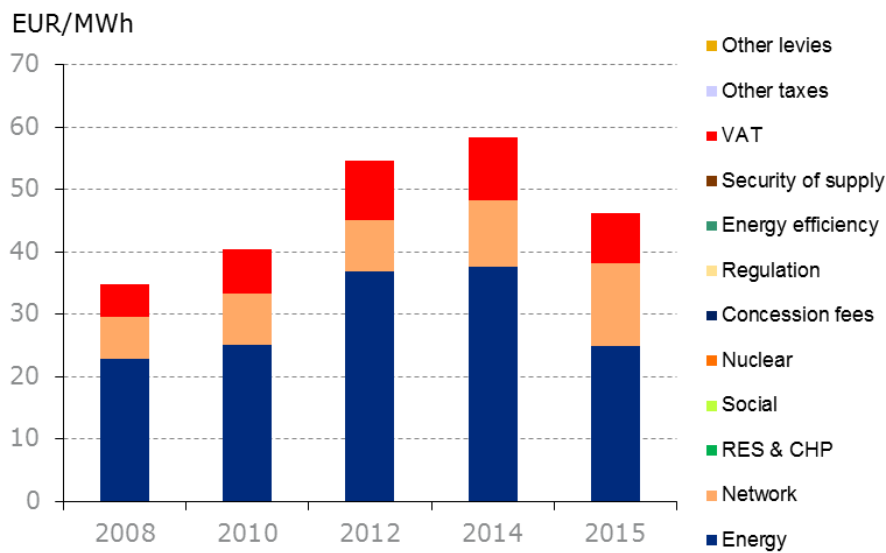
## Composition of electricity prices



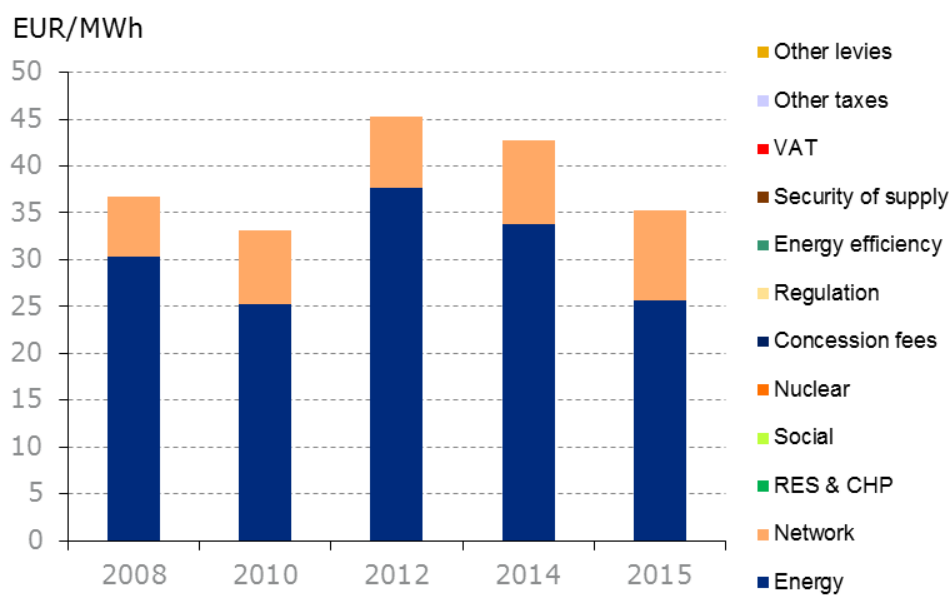


## Composition of gas prices

### Composition of median household gas prices

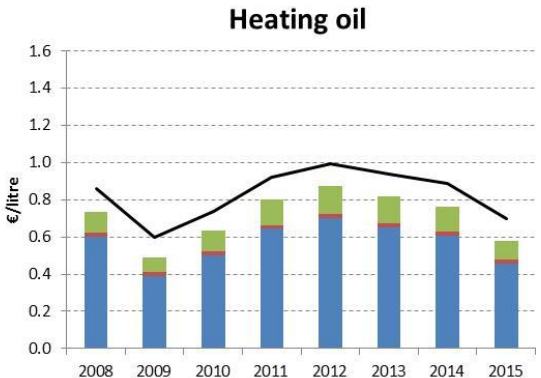
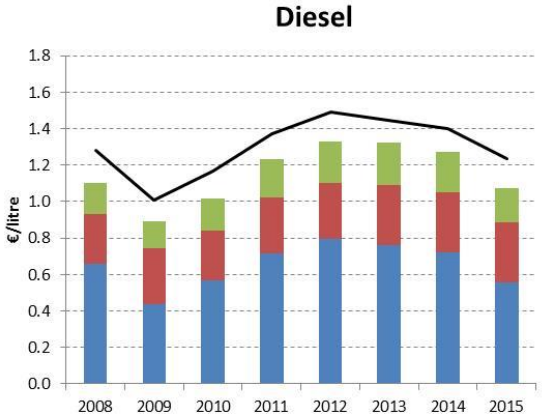
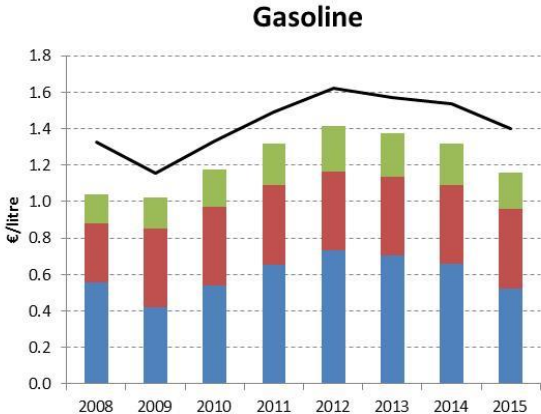


### Composition of median industrial gas prices



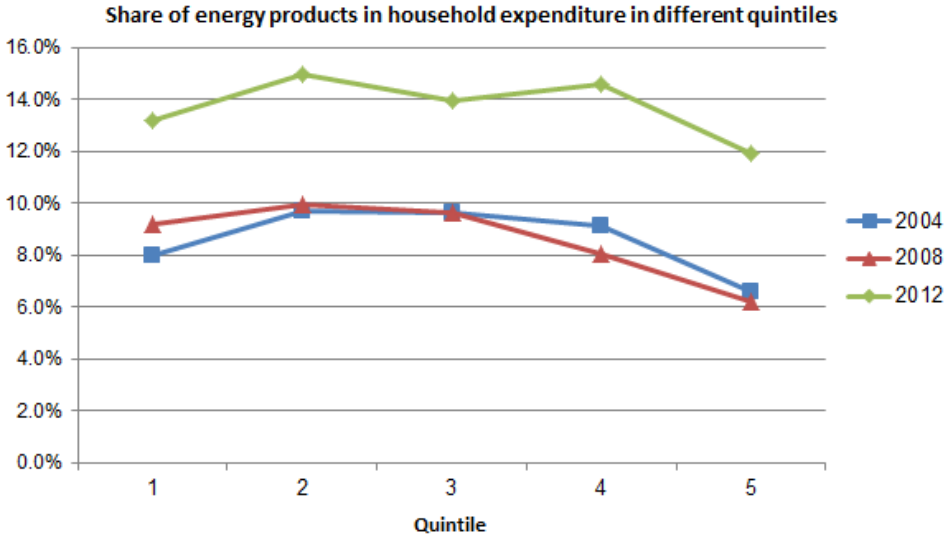


# Oil products prices



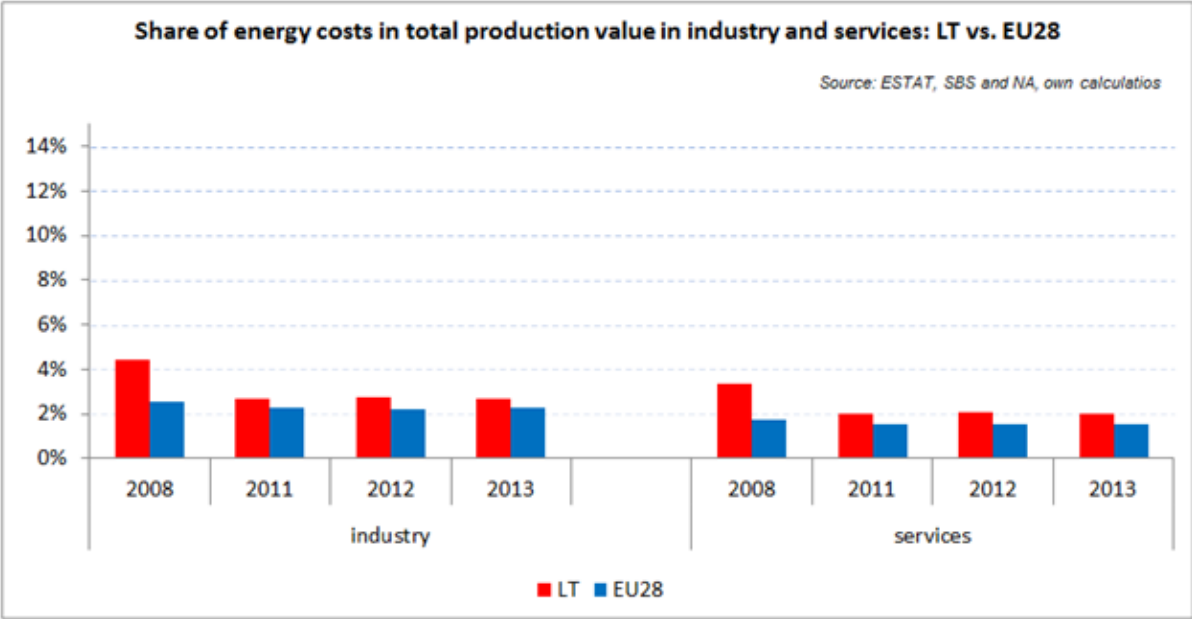
- VAT
- Excise duty and other indirect taxes
- Net price
- EU average price

### Energy in Households budgets



In Lithuania the share of energy in total household expenditure changed only slightly between 2004 (blue line) and 2008 (red line). However, by 2012 (green line) the share of energy rose to 13.2% in the case of the poorest households (Quintile 1), while for middle income households it reached 13.9%, up from 8% and 9.6% respectively measured in 2004.

### Energy costs shares in total production costs



Notes  
 Data for Malta, Poland, Slovenia (prior to 2012) and Ireland (after 2012) is not available  
 Data for 2009 and 2010 is incomplete and not reported  
 Industry defined as NACE Rev.2 Section C (Manufacturing)  
 Services defined as NACE Rev. 2 Sections G - U

## Electricity and gas prices – Breakdown by price element

<b>Band DC</b>	<b>EUR/kWh 2015</b>
Energy	0.050200
Public supplier price	0.001400
<b>Total energy component</b>	<b>0.051600</b>
Distribution	0.027300
Transmission	0.006300
<b>Total network component</b>	<b>0.033600</b>
RES Connection to the transmission and distribution grids	0.000000
PSO - Ignalina Nuclear Power Plant	0.000000
VAT	0.021400
PSO - Fixed costs of Lithuanian Power Plant	0.000000
PSO - Financing of the market operator	0.000000
PSO - Compensation for the solar producers	0.000000
PSO - Renewable energy sources (RES) PSO and RES balancing	0.006600
PSO - Strategic Projects (NordBalt)	0.002100
PSO – Connection revenues (part paid by RES)	-0.000200
PSO – Compensation for solar producers	0.000300
PSO - Lithuanian Power Plant PSO (production)	0.005200
PSO - Combined Heat and Power Plant (CHPP) PSO	0.001800
PSO - PSO – RES connection to the transmission and distribution grids	0.000500
<b>Total taxes &amp; levies component</b>	<b>0.037700</b>
<b>Total price</b>	<b>0.122900</b>
<b>Band ID (average of all bands)</b>	<b>EUR/kWh 2015</b>
Energy	0.051000
Public supplier price	0.001400
<b>Total energy component</b>	<b>0.052400</b>
Distribution	0.029200
Transmission	0.000900
<b>Total network component</b>	<b>0.030100</b>
RES Connection to the transmission and distribution grids	0.000000
PSO - Ignalina Nuclear Power Plant	0.000000
VAT	0.000000
PSO - Fixed costs of Lithuanian Power Plant	0.000000
PSO – Cost of market operator	0.000000
PSO - Renewable energy sources (RES) PSO and RES balancing	0.006600

PSO - Strategic Projects (NordBalt)	0.002100
PSO – Connection revenues (part paid by RES)	-0.000200
PSO – Compensation for solar producers	0.000300
PSO - Lithuanian Power Plant PSO (production)	0.005200
PSO - Combined Heat and Power Plant (CHPP) PSO	0.001800
PSO - PSO – RES connection to the transmission and distribution grids	0.000500
<b>Total taxes &amp; levies component</b>	<b>0.016300</b>
<b>Total price</b>	<b>0.098800</b>

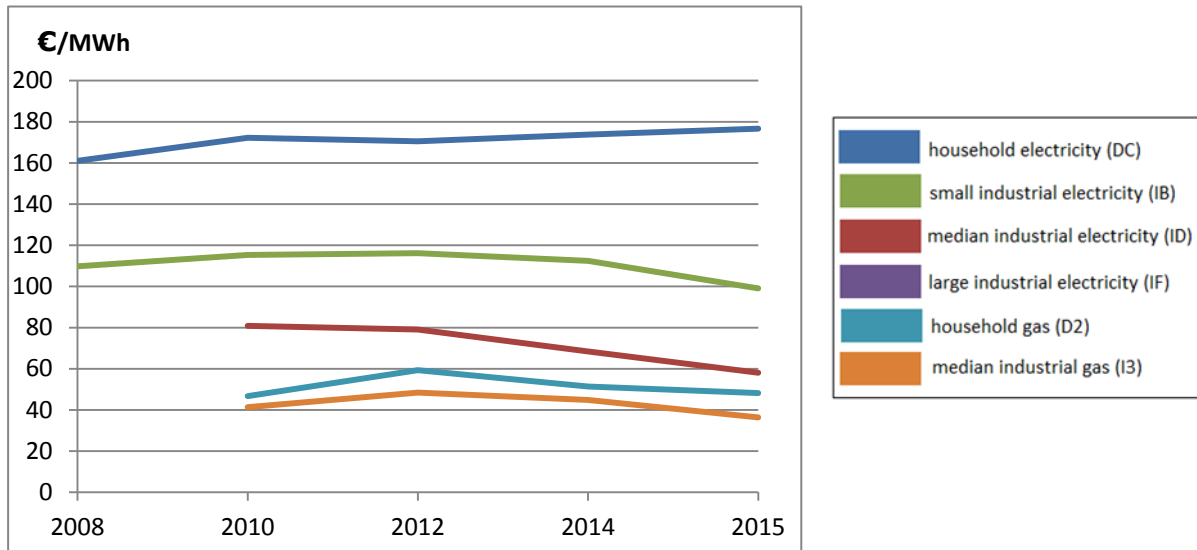
<b>Band D2</b>	<b>EUR/kWh 2015</b>
Price of gas supply	0.024800
<b>Total energy component</b>	<b>0.024800</b>
Network	0.013400
<b>Total network component</b>	<b>0.013400</b>
VAT	0.008000
<b>Total taxes &amp; levies component</b>	<b>0.008000</b>
<b>Total price</b>	<b>0.046200</b>

<b>Band I3</b>	<b>EUR/kWh 2015</b>
Price of gas supply	0.025700
<b>Total energy component</b>	<b>0.025700</b>
Network	0.009600
<b>Total network component</b>	<b>0.009600</b>
VAT	0.000000
<b>Total taxes &amp; levies component</b>	<b>0.000000</b>
<b>Total price</b>	<b>0.035300</b>

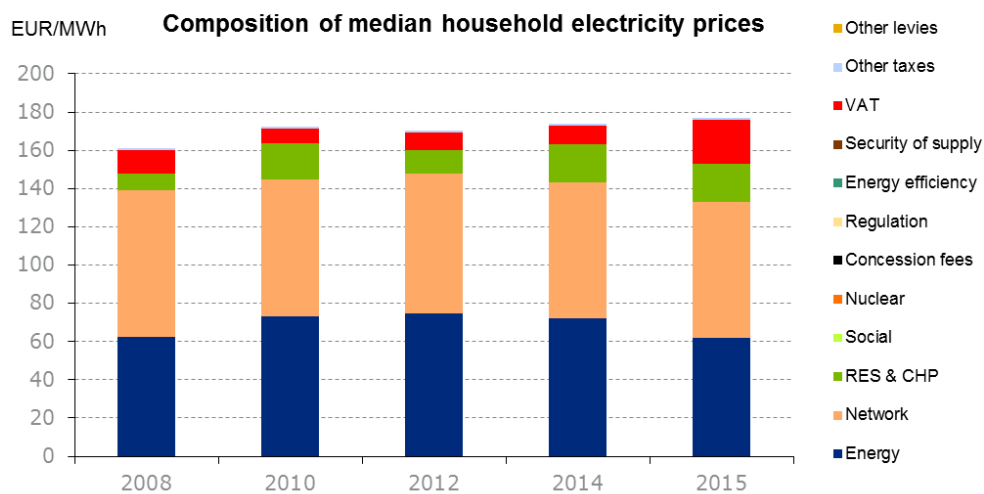
# Luxembourg

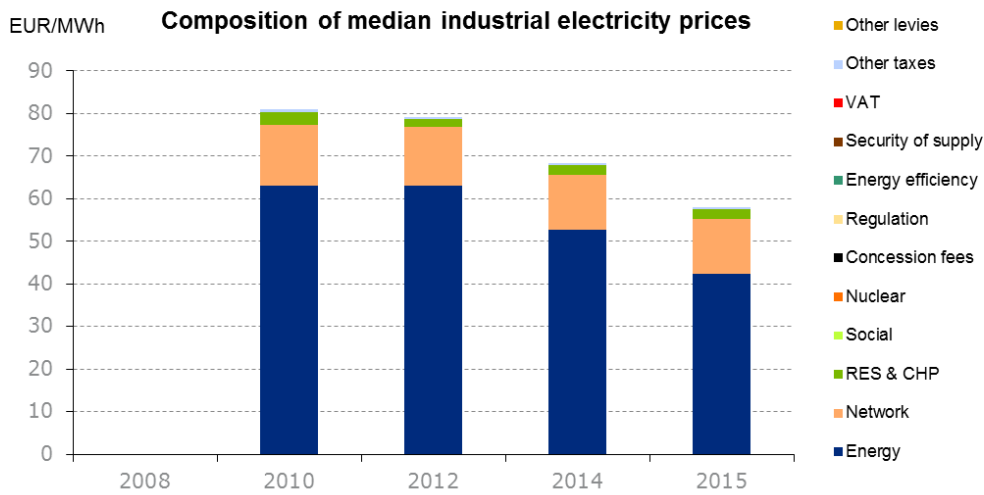


## Evolution of electricity and natural gas prices



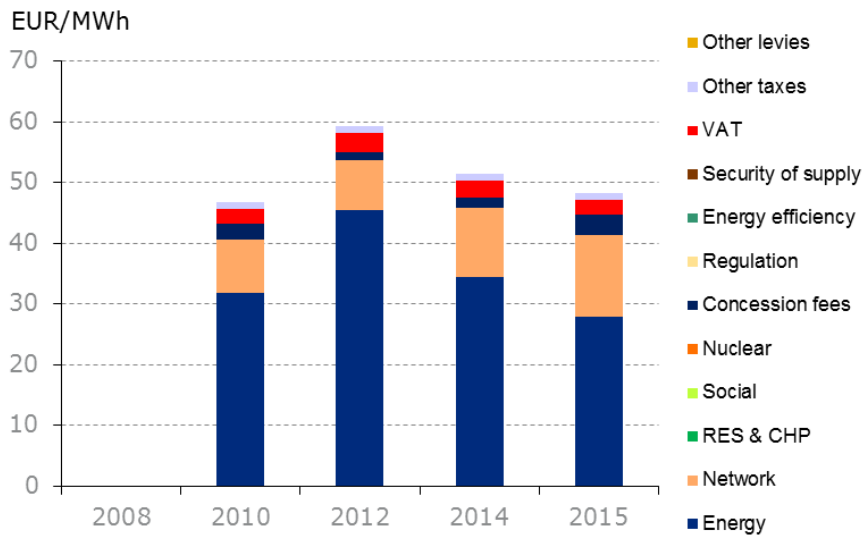
## Composition of electricity prices



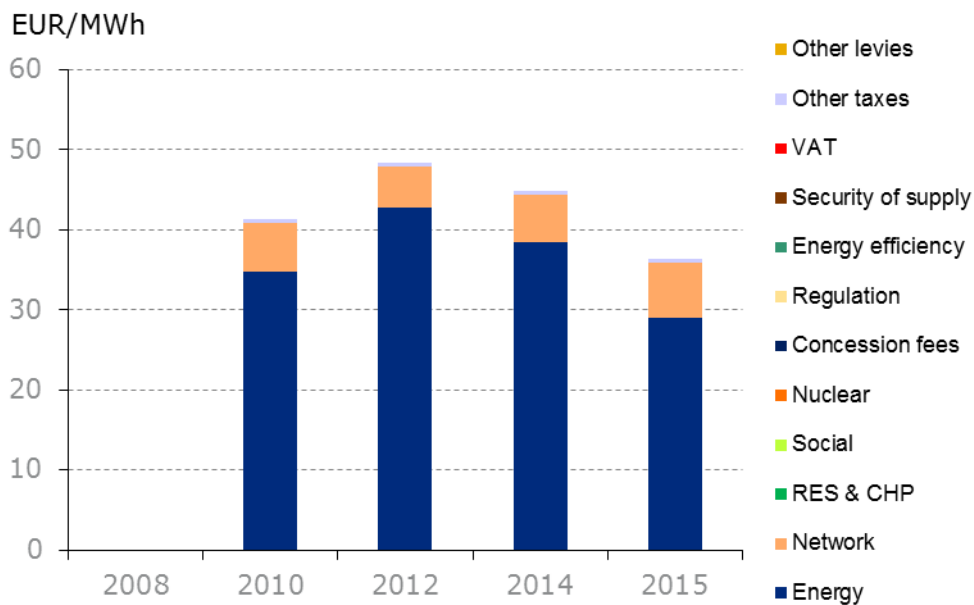


## Composition of gas prices

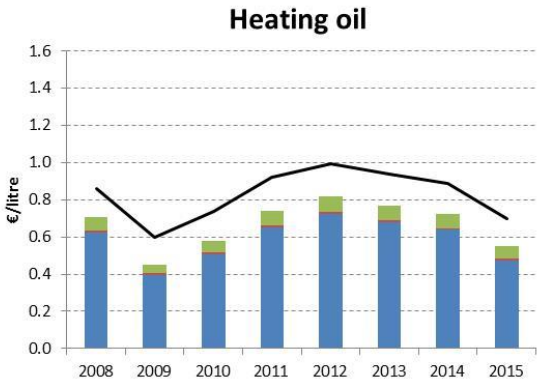
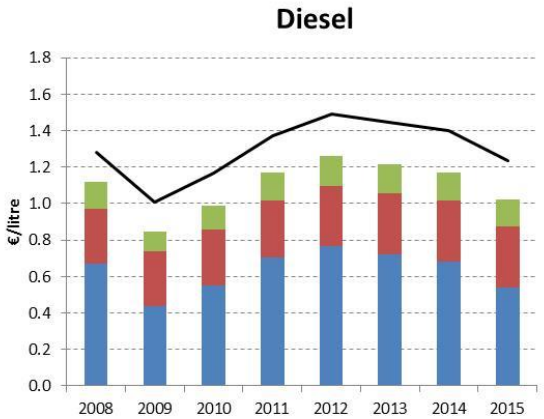
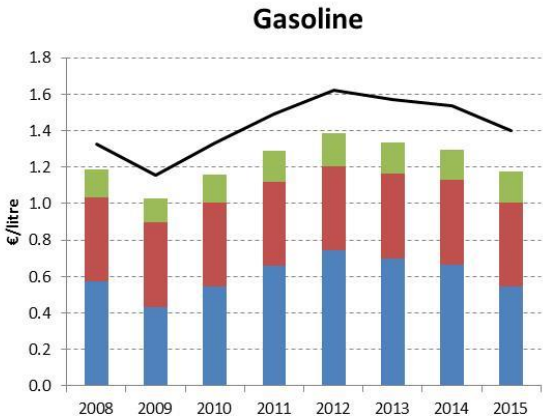
### Composition of median household gas prices



### Composition of median industrial gas prices

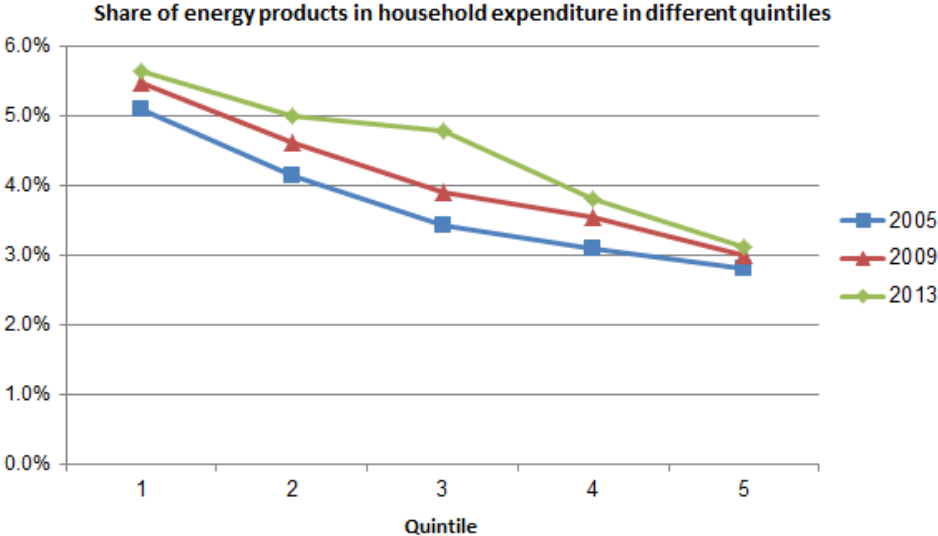


# Oil products prices



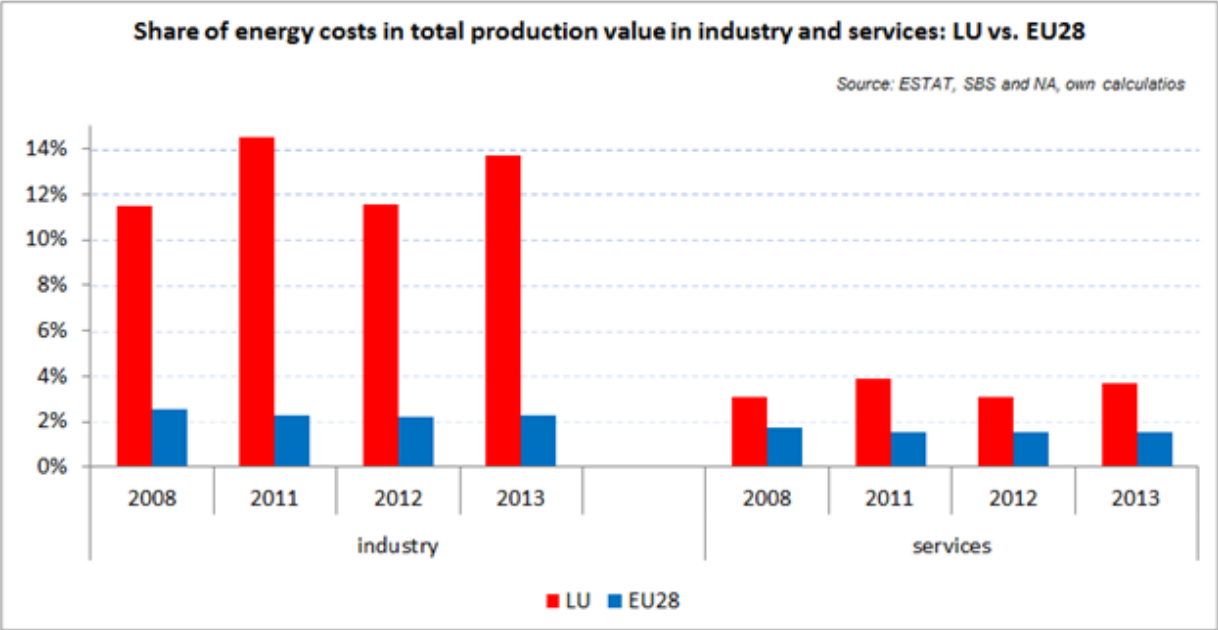
- VAT
- Excise duty and other indirect taxes
- Net price
- EU average price

### Energy in Households budgets



Between 2005 (blue line) and 2013 (green line) the share of energy in total household expenditure rose from 5.1% to 5.6% for the poorest households (Quintile 1) in Luxembourg, while for middle income households (Quintile 3) it went up from 3.4% to 4.8%, which was still moderate in EU comparison.

### Energy costs shares in total production costs



Notes  
 Data for Malta, Poland, Slovenia (prior to 2012) and Ireland (after 2012) is not available  
 Data for 2009 and 2010 is incomplete and not reported  
 Industry defined as NACE Rev.2 Section C (Manufacturing)  
 Services defined as NACE Rev. 2 Sections G - U



## Electricity and gas prices – Breakdown by price element

<b>Band DC</b>	<b>EUR/kWh 2015</b>
Energy	0.058500
other services	0.003600
<b>Total energy component</b>	<b>0.062100</b>
Network	0.060700
Other services - network	0.010300
<b>Total network component</b>	<b>0.071000</b>
support for renewable energy	0.019900
Electricity tax	0.001000
VAT	0.022700
<b>Total taxes &amp; levies component</b>	<b>0.043600</b>
<b>Total price</b>	<b>0.176700</b>

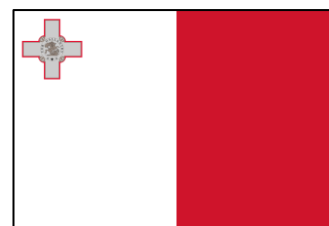
<b>Band ID</b>	<b>EUR/kWh 2015</b>
Energy	0.041044
other services	0.001356
<b>Total energy component</b>	<b>0.042400</b>
Network	0.011546
Other services - network	0.001254
<b>Total network component</b>	<b>0.012800</b>
support for renewable energy	0.002363
Electricity tax	0.000500
<b>Total taxes &amp; levies component</b>	<b>0.002863</b>
<b>Total price</b>	<b>0.058063</b>

<b>Band D2</b>	<b>EUR/kWh 2015</b>
Energy	0.024400
Other services - energy	0.003500
<b>Total energy component</b>	<b>0.027900</b>
Network	0.011700

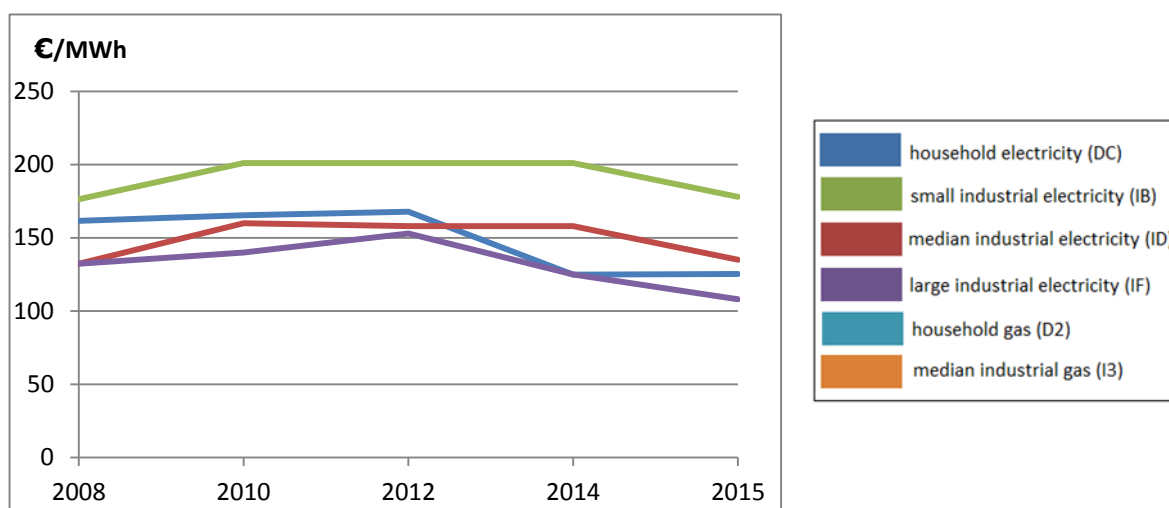
Other services - network	0.001800
<b>Total network component</b>	<b>0.013500</b>
Other regional fee	0.003200
VAT	0.002500
Gas tax	0.001100
<b>Total taxes &amp; levies component</b>	<b>0.006800</b>
<b>Total price</b>	<b>0.048200</b>

<b>Band I3</b>	<b>EUR/kWh 2015</b>
Energy	0.028500
Other services - energy	0.000500
<b>Total energy component</b>	<b>0.029000</b>
Network	0.006700
Other services - network	0.000200
<b>Total network component</b>	<b>0.006900</b>
Gas tax	0.000500
<b>Total taxes &amp; levies component</b>	<b>0.000500</b>
<b>Total price</b>	<b>0.036400</b>

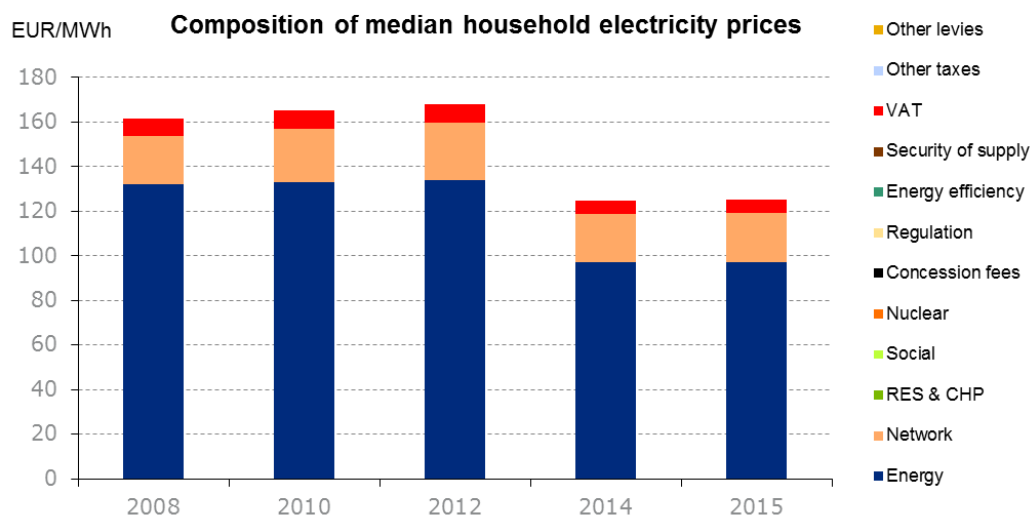
# Malta

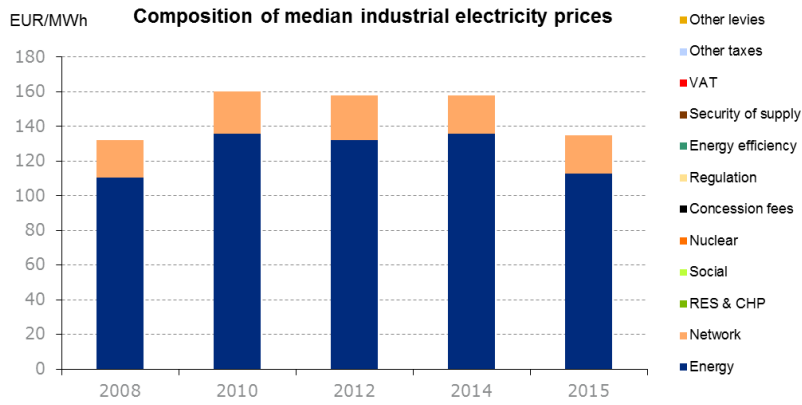


## Evolution of electricity and natural gas prices

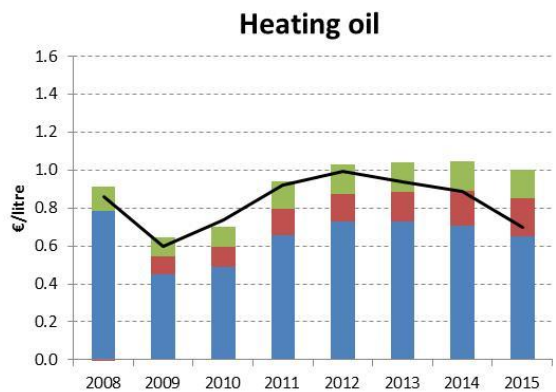
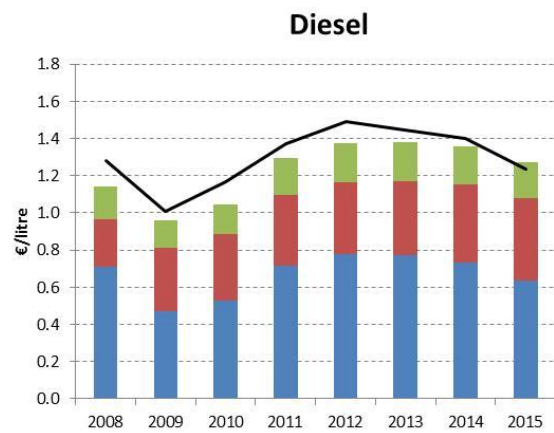
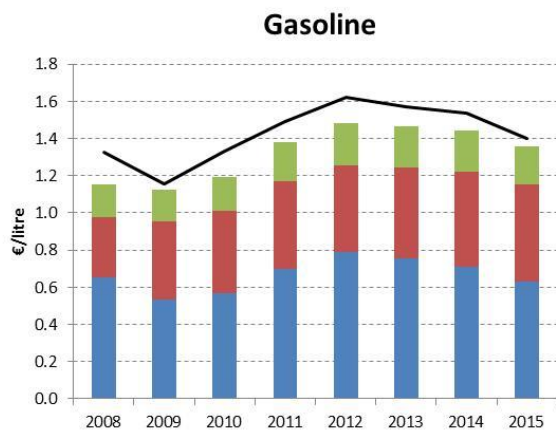


## Composition of electricity prices

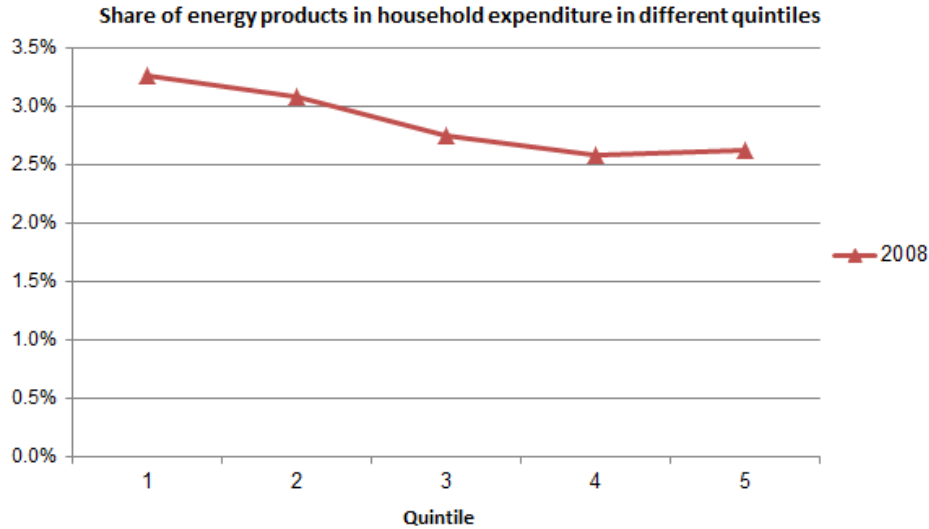




## Oil products prices



### Energy in Households budgets



In Malta 2008 data (most recently available) on the share of energy in total household expenditure show that households basically spent relatively low share on energy from their expenditures in EU comparison. The poorest households (Quintile 1) spent 3.3% of their expenditure on energy, while households with middle or high income (Quintile 3 and Quintile 5) spent slightly more than 2.5% on this purpose.

### Energy costs shares in total production costs

*Eurostat SBS data not available due to confidentiality issues*

## Electricity and gas prices – Breakdown by price components and subcomponents

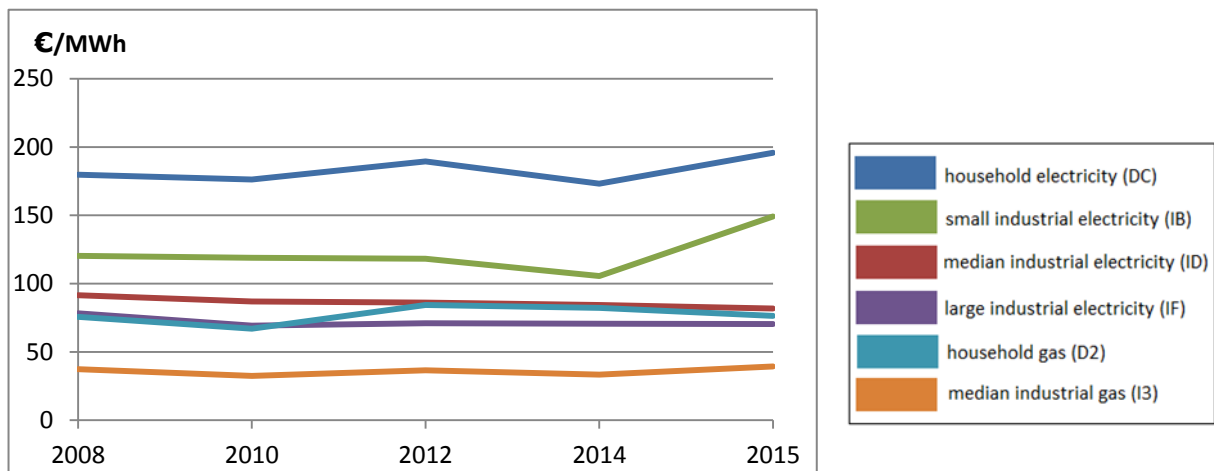
<b>Band DC</b>	<b>EUR/kWh 2015</b>
Energy and supply Meter charge	0.079300 0.018000
<b>Total energy component</b>	<b>0.097300</b>
Network	0.022000
<b>Total network component</b>	<b>0.022000</b>
VAT	0.006000
<b>Total taxes &amp; levies component</b>	<b>0.006000</b>
<b>Total price</b>	<b>0.125300</b>

<b>Band ID</b>	<b>EUR/kWh 2015</b>
Energy and supply Meter charge	0.103000 0.010000
<b>Total energy component</b>	<b>0.113000</b>
Network	0.022000
<b>Total network component</b>	<b>0.022000</b>
VAT	0.000000
<b>Total taxes &amp; levies component</b>	<b>0.000000</b>
<b>Total price</b>	<b>0.135000</b>

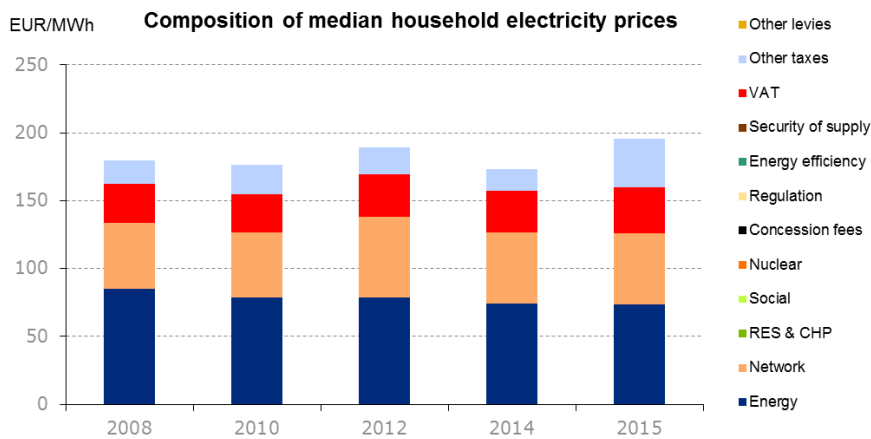
# Netherlands

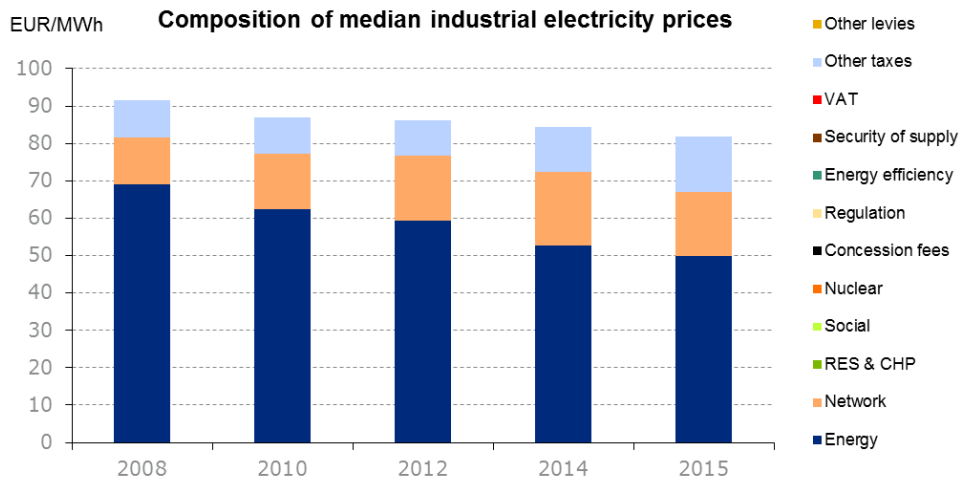


## Evolution of electricity and natural gas prices



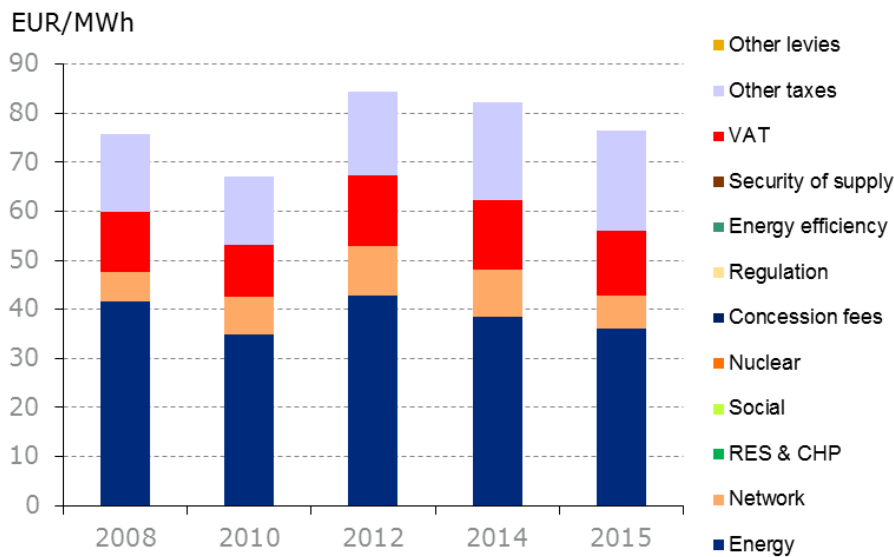
## Composition of electricity prices



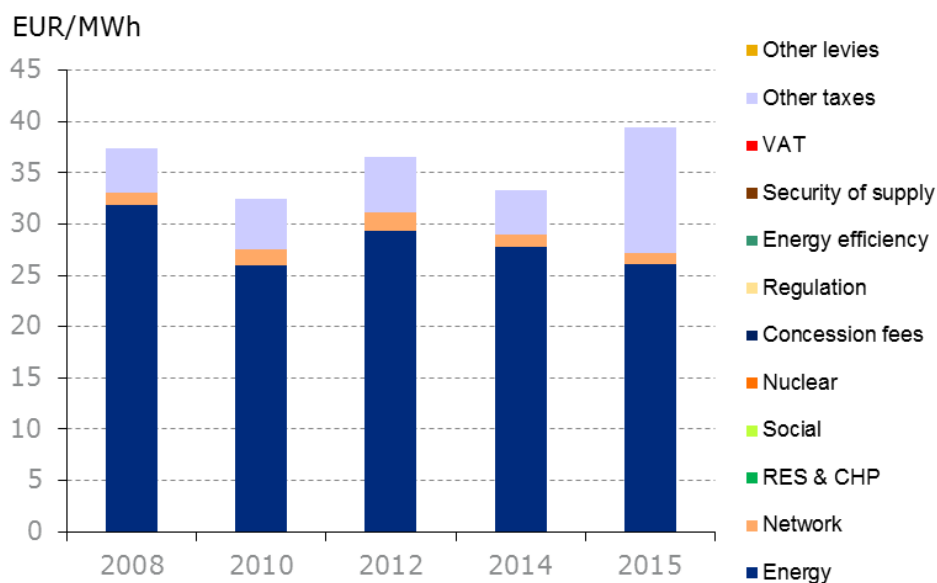


## Composition of gas prices

### Composition of median household gas prices

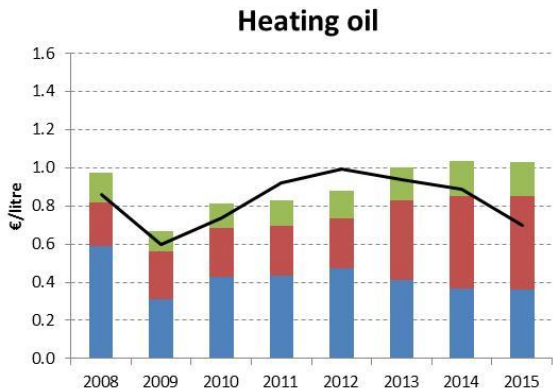
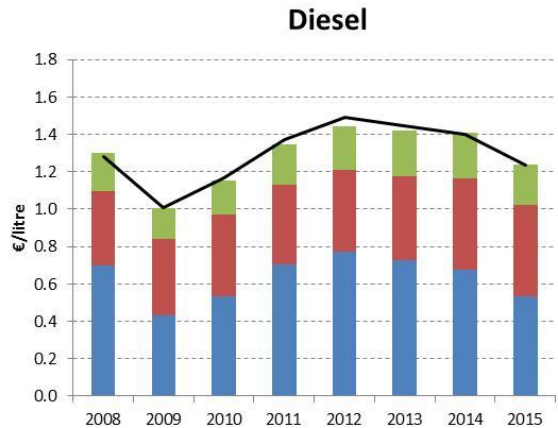
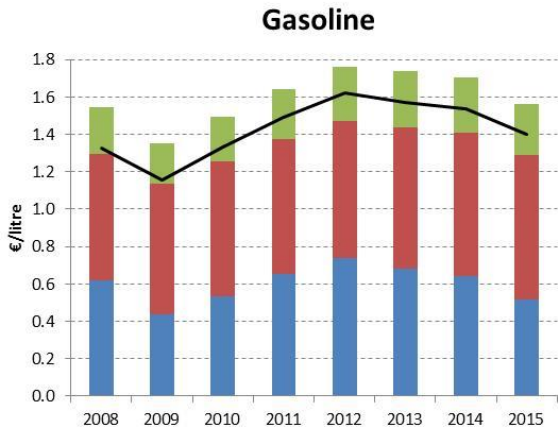


### Composition of median industrial gas prices



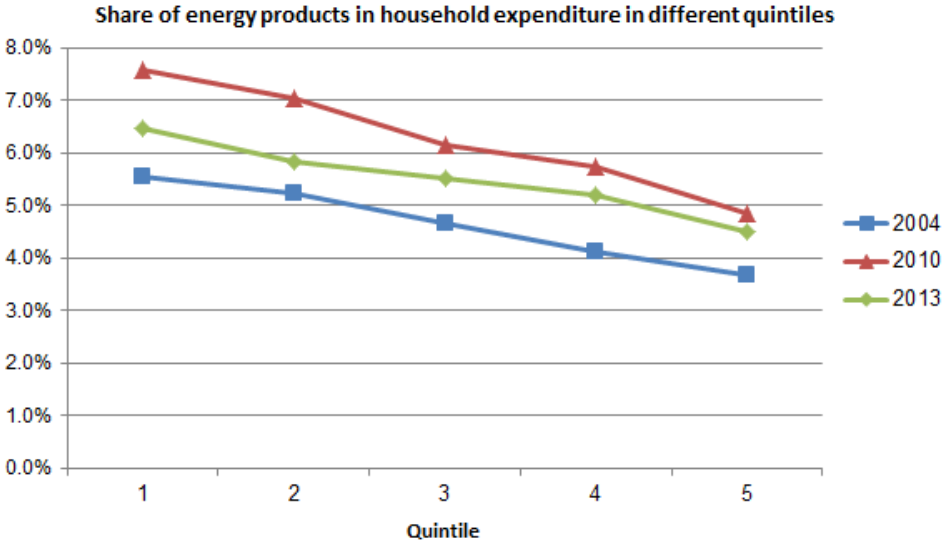


# Oil products prices



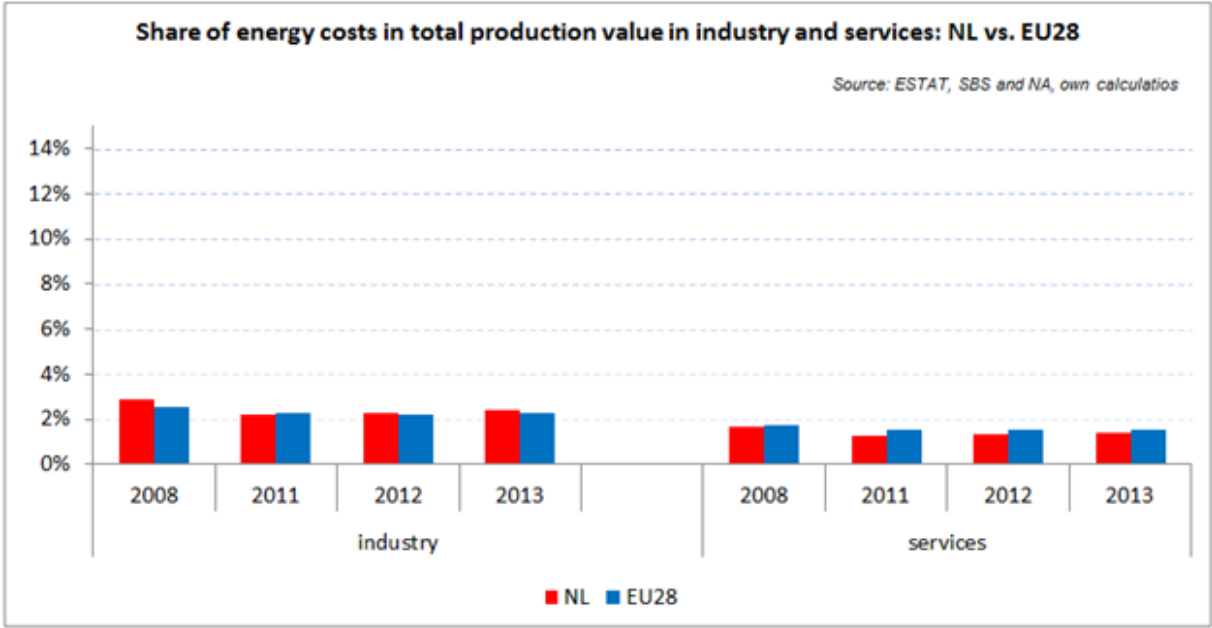
- VAT
- Excise duty and other indirect taxes
- Net price
- EU average price

### Energy in Households budgets



In the Netherlands the share of energy in total household expenditure rose measurably in all income quintiles between 2004 (blue line) and 2013 (green line). In the case of the poorest households (Quintile 1) the energy share went up from 5.5% to 7.6%, while in the case of households with middle income (Quintile 3) it rose from 4.6% to 6.2%.

### Energy costs shares in total production costs



Notes  
 Data for Malta, Poland, Slovenia (prior to 2012) and Ireland (after 2012) is not available  
 Data for 2009 and 2010 is incomplete and not reported  
 Industry defined as NACE Rev.2 Section C (Manufacturing)  
 Services defined as NACE Rev. 2 Sections G - U

## Electricity and gas prices – Breakdown by price element

<b>Band DC</b>	<b>EUR/kWh 2015</b>
Energy Supply	0.073300
<b>Total energy component</b>	<b>0.073300</b>
Transmission	0.006300
Standing charge	0.046500
<b>Total network component</b>	<b>0.052800</b>
Environmental tax on energy	0.035700
VAT	0.034000
<b>Total taxes &amp; levies component</b>	<b>0.069700</b>
<b>Total price</b>	<b>0.195800</b>

<b>Band ID</b>	<b>EUR/kWh 2015</b>
Energy Supply	0.049800
<b>Total energy component</b>	<b>0.049800</b>
Transmission	0.017200
Standing charge	0.000100
<b>Total network component</b>	<b>0.017300</b>
Environmental tax on energy	0.014700
VAT	0.000000
<b>Total taxes &amp; levies component</b>	<b>0.014700</b>
<b>Total price</b>	<b>0.081800</b>

<b>Band D2</b>	<b>EUR/kWh 2015</b>
Energy Supply	0.036031
<b>Total energy component</b>	<b>0.036031</b>
Standing charge	0.001185
Transmission	0.005643
<b>Total network component</b>	<b>0.006828</b>
Environmental tax on energy	0.020318
VAT	0.013267

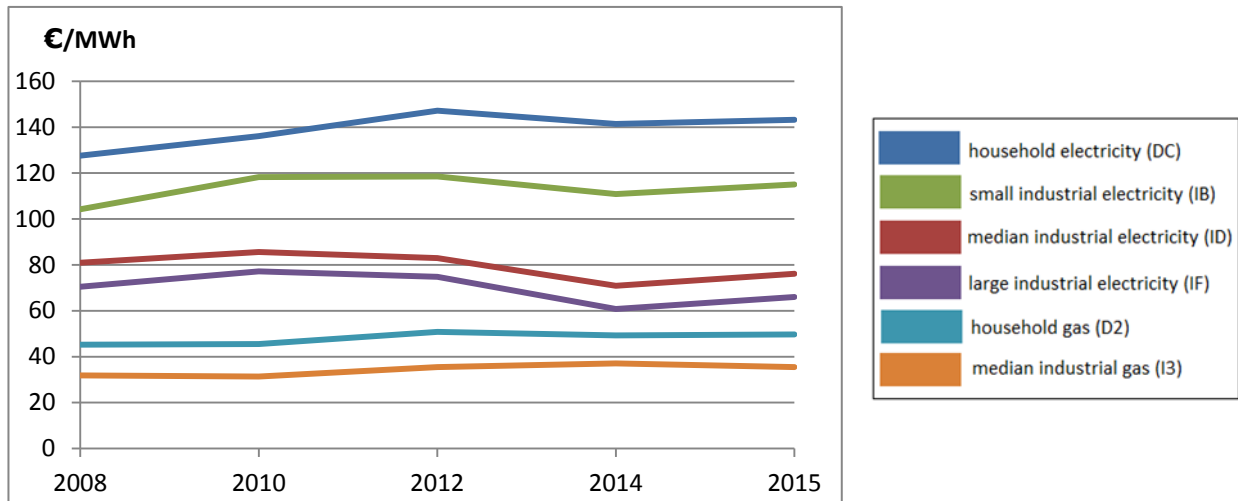
<b>Total taxes &amp; levies component</b>	<b>0.033586</b>
<b>Total price</b>	<b>0.076445</b>

<b>Band I3</b>	<b>EUR/kWh 2015</b>
Energy Supply	0.026124
<b>Total energy component</b>	<b>0.026124</b>
Standing charge	0.000021
Transmission	0.001000
<b>Total network component</b>	<b>0.001021</b>
Environmental tax on energy	0.012227
VAT	0.000000
<b>Total taxes &amp; levies component</b>	<b>0.012227</b>
<b>Total price</b>	<b>0.039372</b>

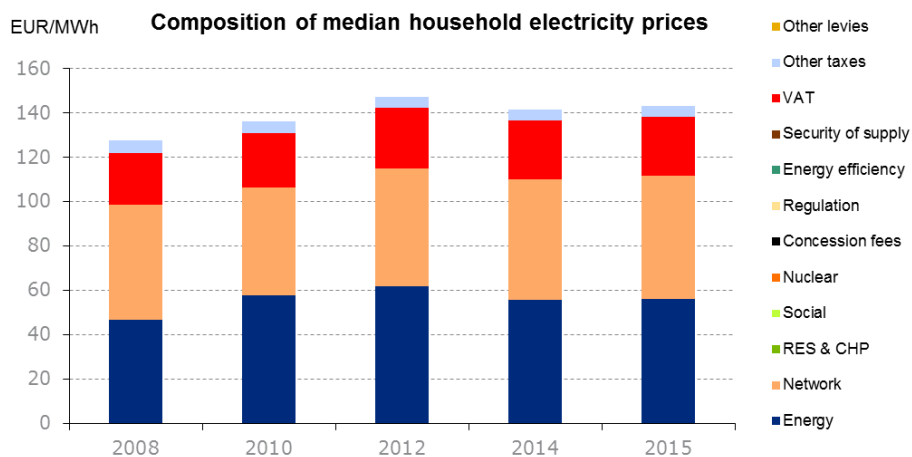
# Poland

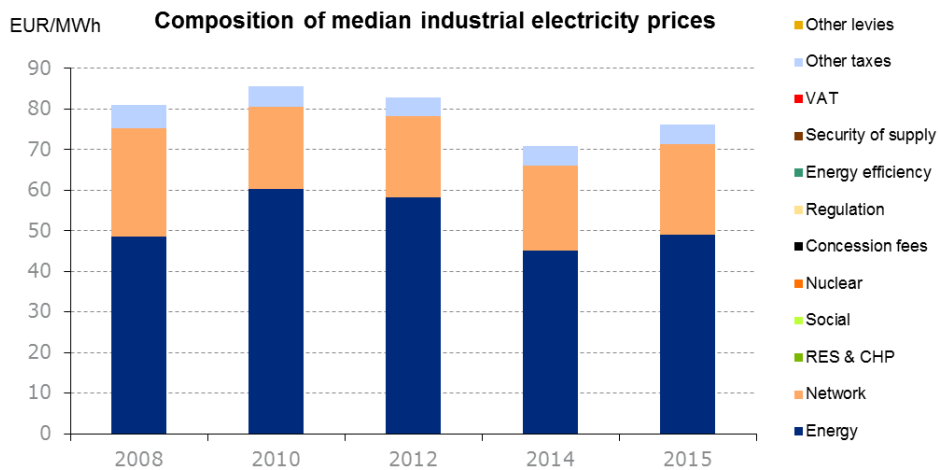


## Evolution of electricity and natural gas prices



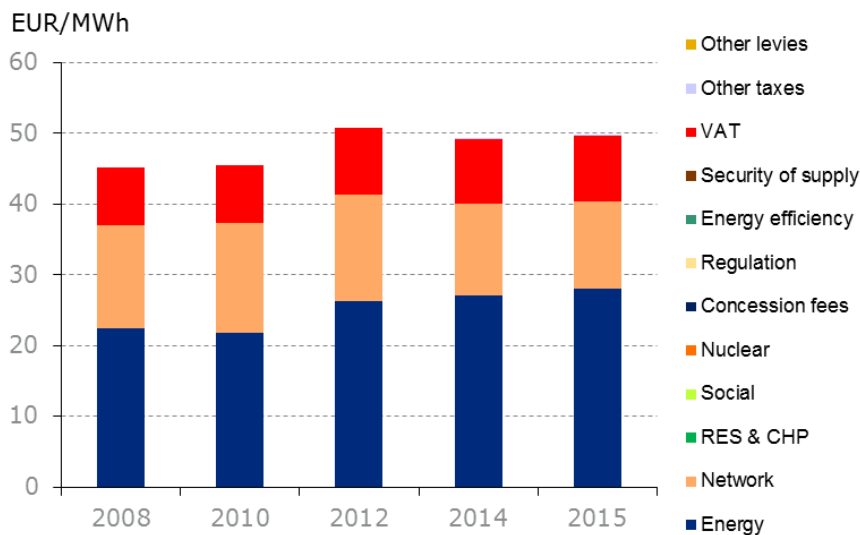
## Composition of electricity prices



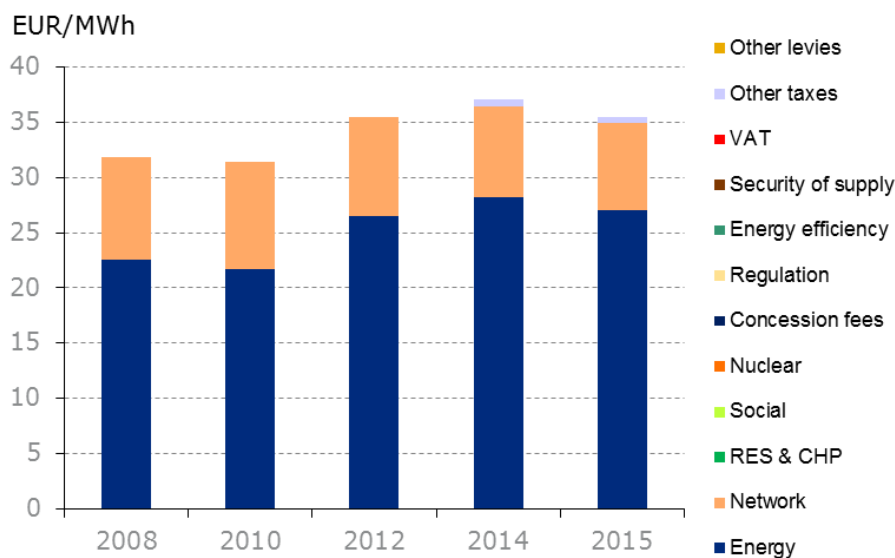


## Composition of gas prices

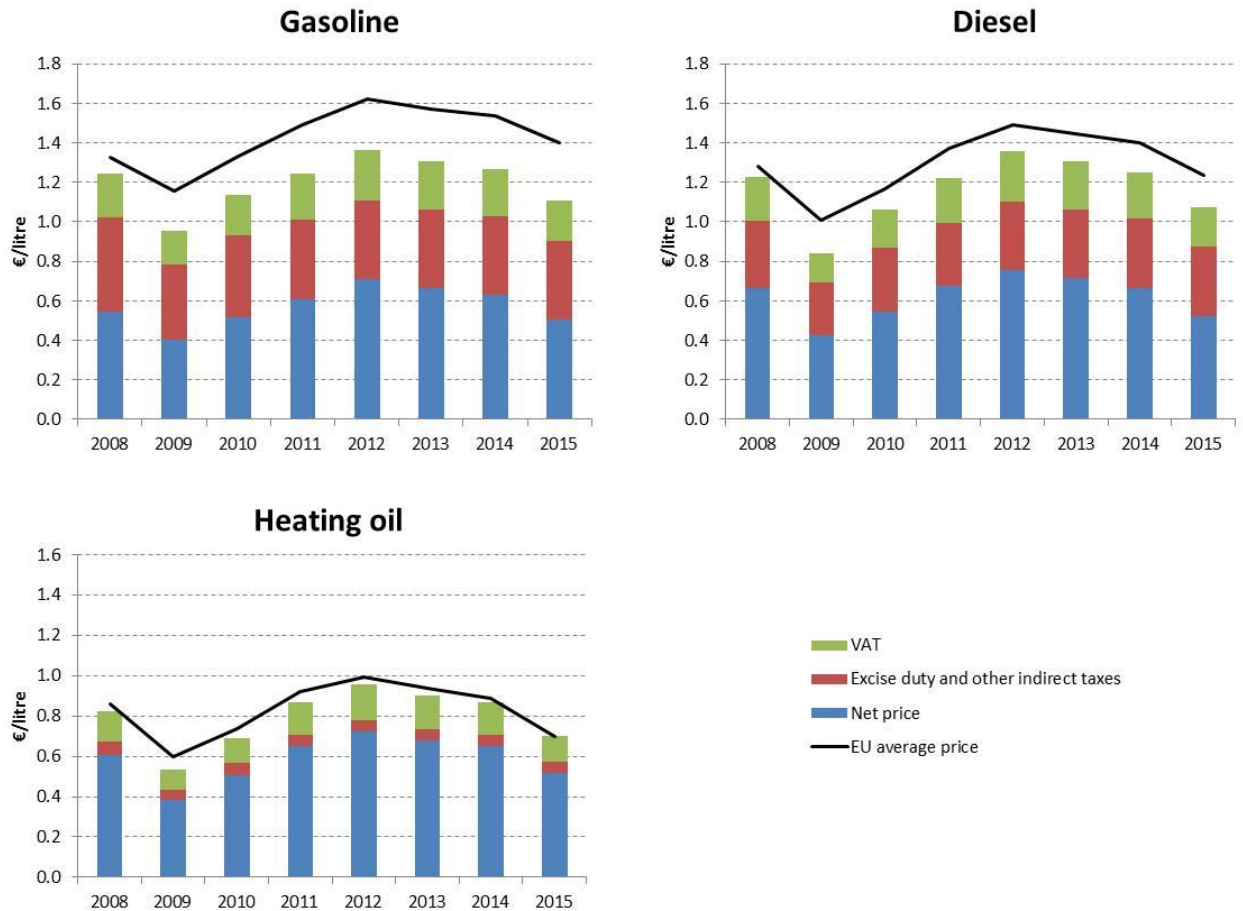
### Composition of median household gas prices



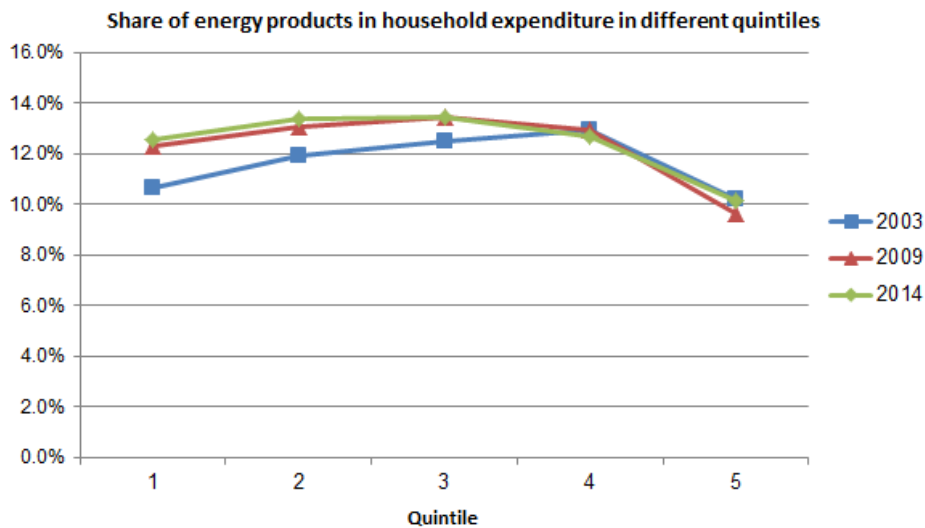
### Composition of median industrial gas prices



## Oil products prices



## Energy in Households budgets



In Poland the share of energy in total household expenditure went up from 10.6% to 12.5% in the case of the poorest households (Quintile 1) between 2003 (blue line) and 2014 (green line). In the case of households with middle income (Quintile 3) the energy share rose from 12.5% to 13.4% in the same period.

## Energy costs shares in total production costs

*Data not available*

### Electricity and gas prices – Breakdown by price element

<b>Band DC</b>	<b>EUR/kWh 2015</b>
Energy and supply	0.055976
<b>Total energy component</b>	<b>0.055976</b>
network	0.055617
<b>Total network component</b>	<b>0.055617</b>
excise tax	0.004790
VAT	0.026779
<b>Total taxes &amp; levies component</b>	<b>0.031569</b>
<b>Total price</b>	<b>0.143162</b>

<b>Band ID</b>	<b>EUR/kWh 2015</b>
Energy and supply	0.049126
<b>Total energy component</b>	<b>0.049126</b>
network	0.022228
<b>Total network component</b>	<b>0.022228</b>
excise tax	0.004790
VAT	0.000000
<b>Total taxes &amp; levies component</b>	<b>0.004790</b>
<b>Total price</b>	<b>0.076144</b>

<b>Band D2</b>	<b>EUR/kWh 2015</b>
Energy	0.028120
<b>Total energy component</b>	<b>0.028120</b>
network	0.012240
<b>Total network component</b>	<b>0.012240</b>
excise tax	0.000024
VAT	0.009293
<b>Total taxes &amp; levies</b>	<b>0.009317</b>



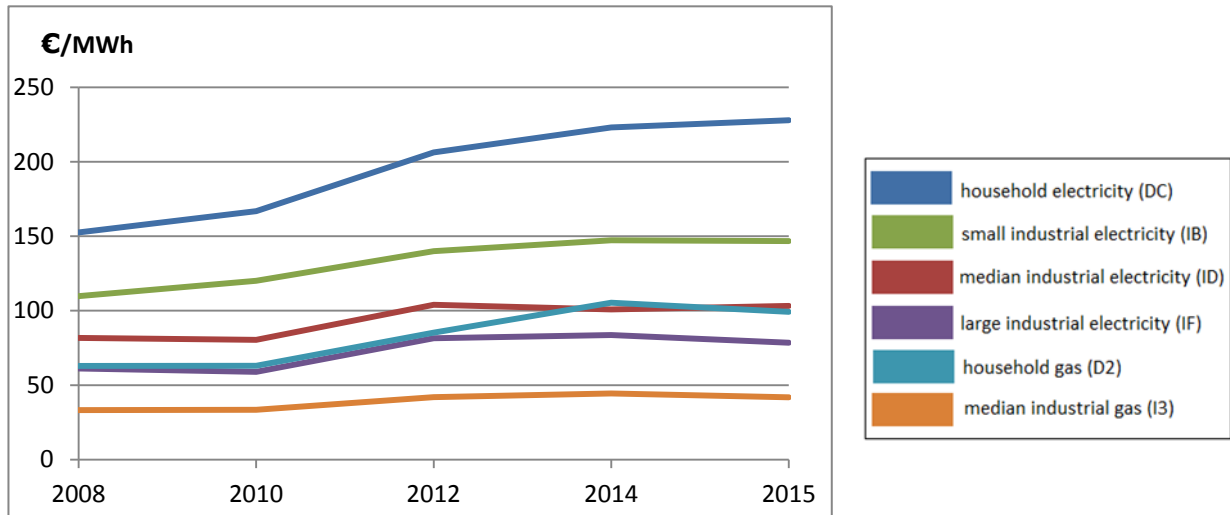
<b>component</b>	
<b>Total price</b>	<b>0.049677</b>

<b>Band I3</b>	<b>EUR/kWh 2015</b>
Energy	0.027018
<b>Total energy component</b>	<b>0.027018</b>
network	0.007904
<b>Total network component</b>	<b>0.007904</b>
excise tax	0.000551
VAT	0.000000
<b>Total taxes &amp; levies component</b>	<b>0.000551</b>
<b>Total price</b>	<b>0.035473</b>

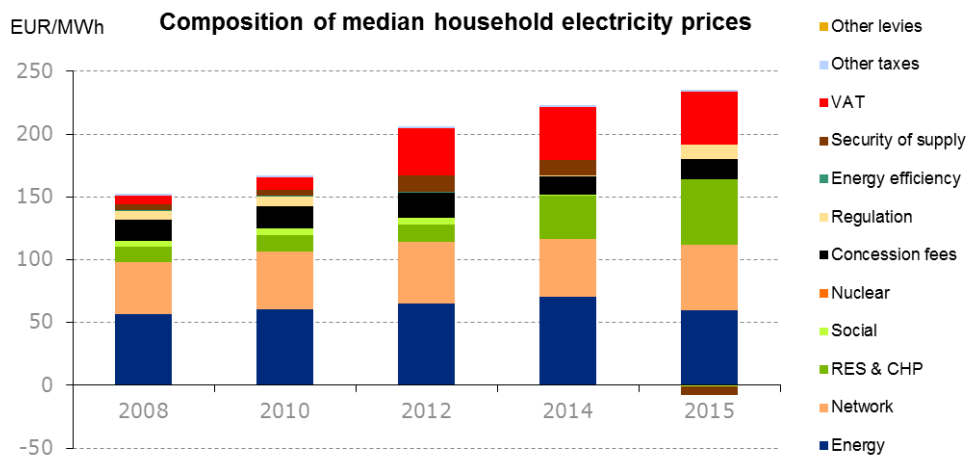
# Portugal

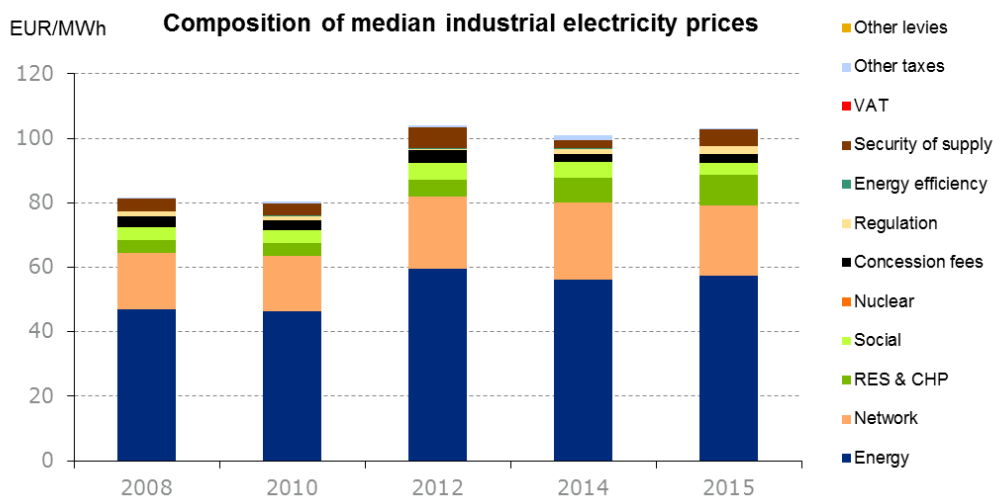


## Evolution of electricity and natural gas prices



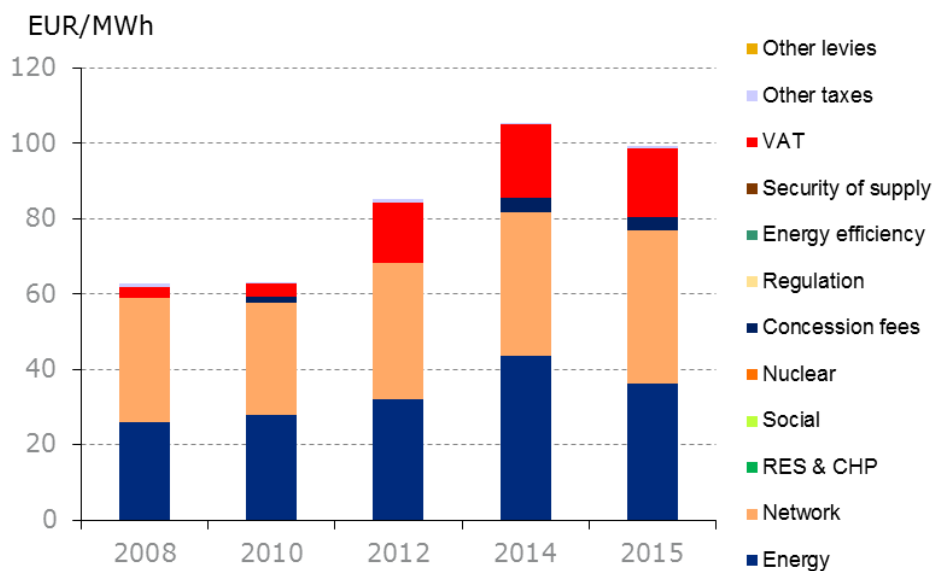
## Composition of electricity prices



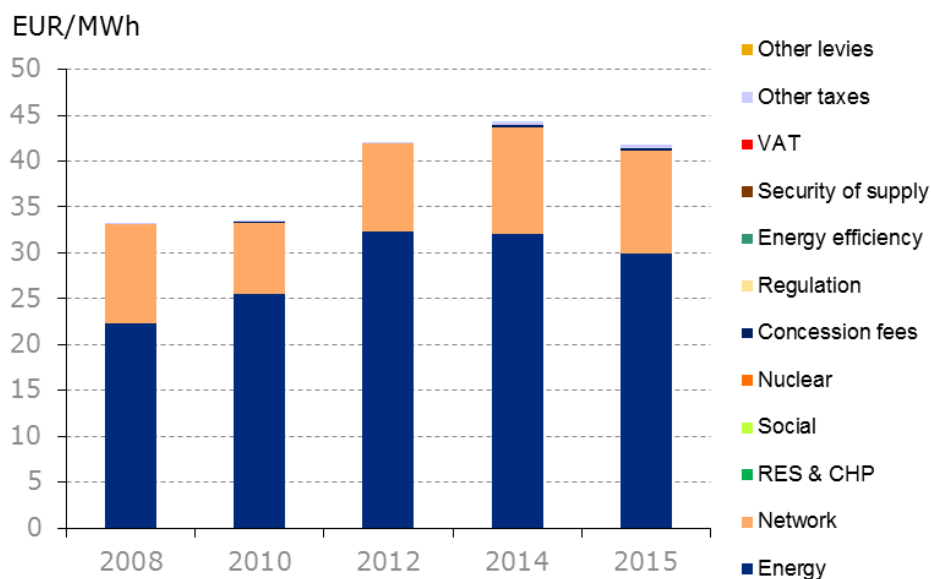


## Composition of gas prices

### Composition of median household gas prices

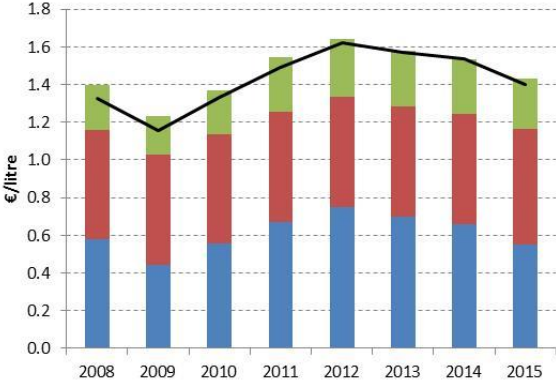


### Composition of median industrial gas prices

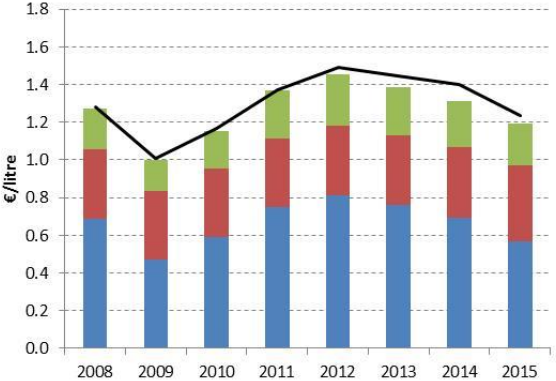


# Oil products prices

## Gasoline



## Diesel

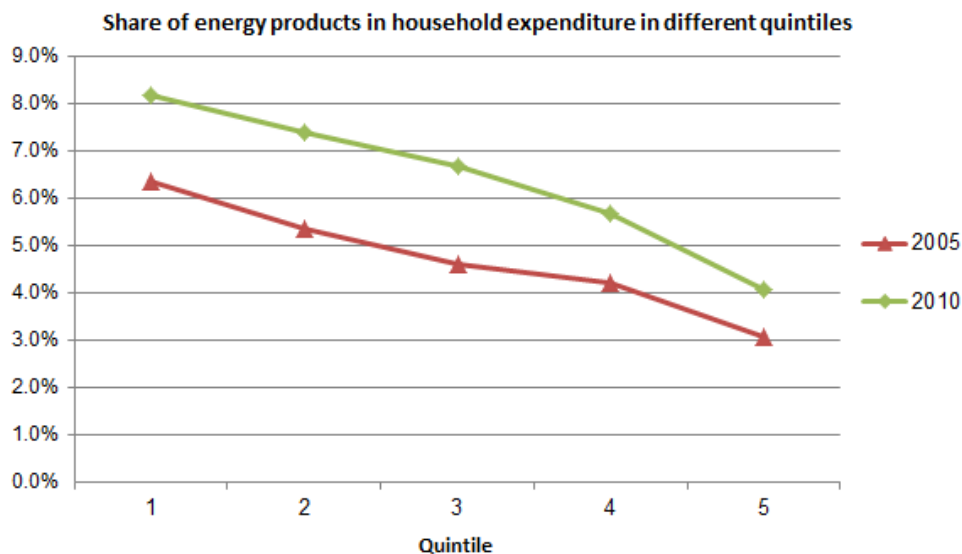


## Heating oil



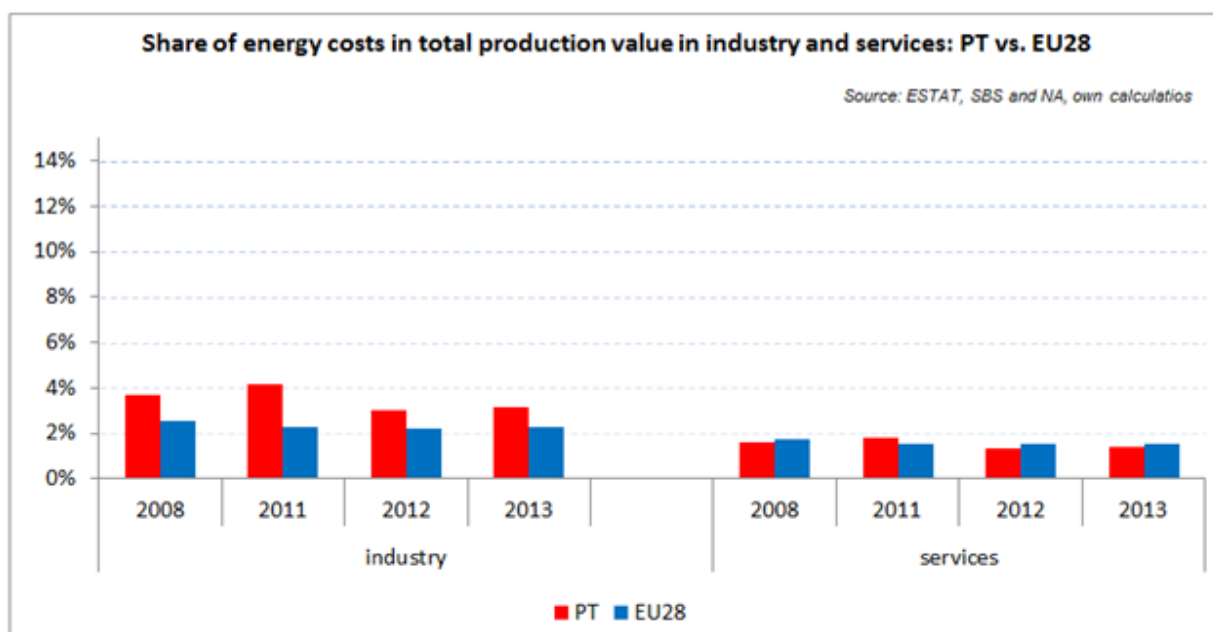
- VAT
- Excise duty and other indirect taxes
- Net price
- EU average price

## Energy in Households budgets



Between 2005 (red line) and 2010 (green line) the share of energy in total household expenditure in Portugal rose from 6.4% to 8.2% for the poorest households (Quintile 1), while in the case of households with middle income (Quintile 3) it went up from 4.6% to 6.7%.

## Energy costs shares in total production costs



Notes  
 Data for Malta, Poland, Slovenia (prior to 2012) and Ireland (after 2012) is not available  
 Data for 2009 and 2010 is incomplete and not reported  
 Industry defined as NACE Rev.2 Section C (Manufacturing)  
 Services defined as NACE Rev. 2 Sections G - U

## Electricity and gas prices – Breakdown by price element

<b>Band DC</b>	<b>EUR/kWh</b>
	<b>2015</b>
balancing energy	0.002766
electricity generation	0.056949
<b>Total energy component</b>	<b>0.059715</b>
Losses Transport	0.000977
Losses HV Distribution tariffs	0.000827
Losses MV Distribution tariffs	0.002511
Losses LV Distribution tariffs	0.003888
MV Distribution tariffs	0.008603
general system costs	0.005123
HV distribution tariffs	0.002062
LV distribution tariffs	0.022319
Transmission	0.006087
<b>Total network component</b>	<b>0.052398</b>
Plan for Promoting the Efficient Use	
isolated islands compensation	-0.001220
charges related with allocation mechanism incentive warranted guaranty	0.000000
Stranded Cost Compensation Mechanism	0.000000
Plans for energy efficient use and environmental performance	
stranded costs	-0.006266
concession fees or local/regional fiscal taxes	
support for renewable energy	0.041501
other taxes (financing NRA: ERSE, AdC, OMIP...)	0.000730
compensation to stranded costs CMECs	
concession fees related with tariffs deficits	0.003816
Support for combined heat and power (CHP)	0.010742

VAT	0.042300
CMECs	0.010281
excise tax	0.001720
Concession Fee	0.012183
renewable energy act	
other taxes (NRA...)	
Power purchase agreements (PPA)	
<b>Total taxes &amp; levies component</b>	<b>0.115786</b>
<b>Total price</b>	<b>0.227900</b>
<b>Band ID</b>	<b>EUR/kWh</b>
	<b>2015</b>
balancing energy	0.002500
electricity generation	0.054900
<b>Total energy component</b>	<b>0.057400</b>
Losses Transport	
Losses HV Distribution tariffs	
Losses MV Distribution tariffs	
MV Distribution tariffs	0.010200
general system costs	0.004400
HV distribution tariffs	0.001800
Transmission	0.005500
<b>Total network component</b>	<b>0.021900</b>
generation fields	
isolated islands compensation	0.003700
charges related with allocation mechanism incentive warranted guaranty	
Stranded Cost Compensation Mechanism	
Plans for energy efficient use and environmental performance	0.000000
stranded costs	0.005200

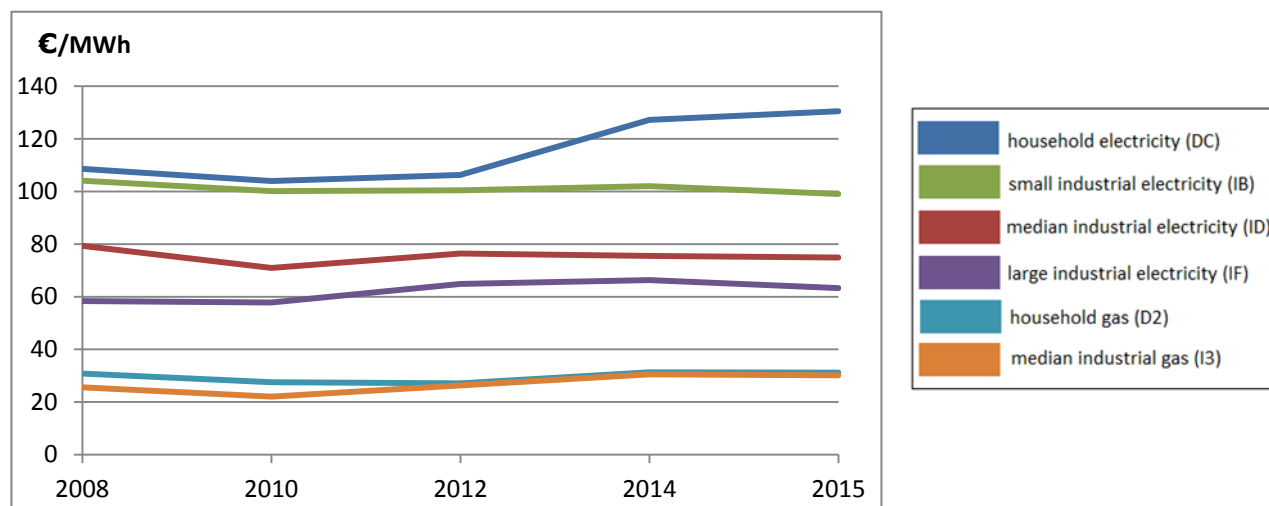
support for renewable energy	0.000000
other taxes (financing NRA: ERSE, AdC, OMIP...)	0.000000
compensation to stranded costs CMECs	0.000000
concession fees related with tariffs deficits	0.002500
Support for combined heat and power (CHP)	0.009300
VAT	0.000000
CMECs	0.001700
excise tax	0.000500
Concession Fee	0.000200
renewable energy act	0.000200
other taxes (NRA...)	0.000600
<b>Total taxes &amp; levies component</b>	<b>0.023900</b>
<b>Total price</b>	<b>0.103200</b>



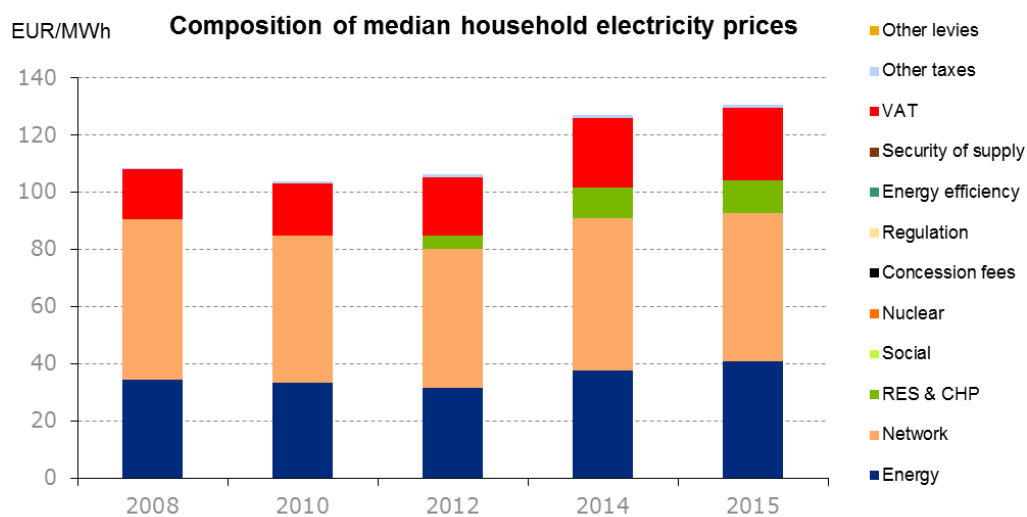
# Romania

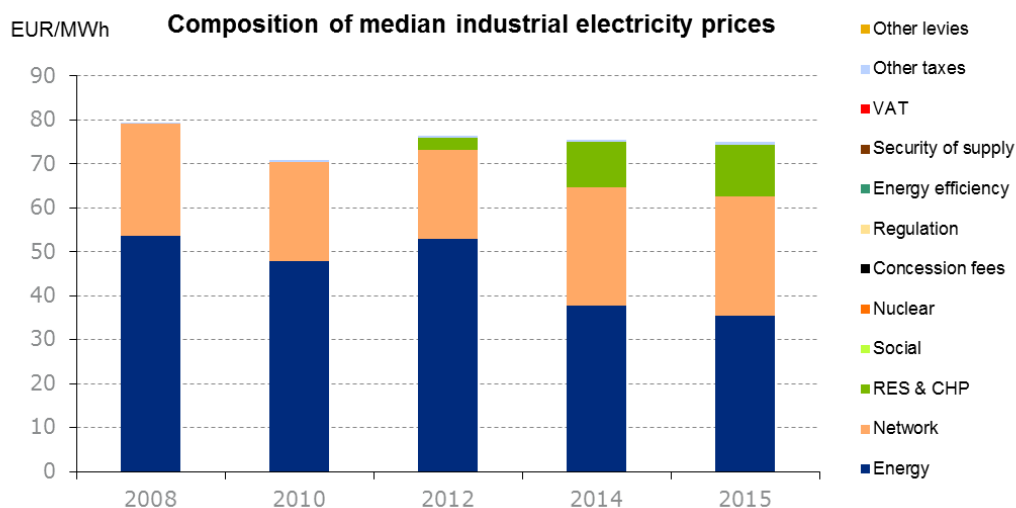


## Evolution of electricity and natural gas prices



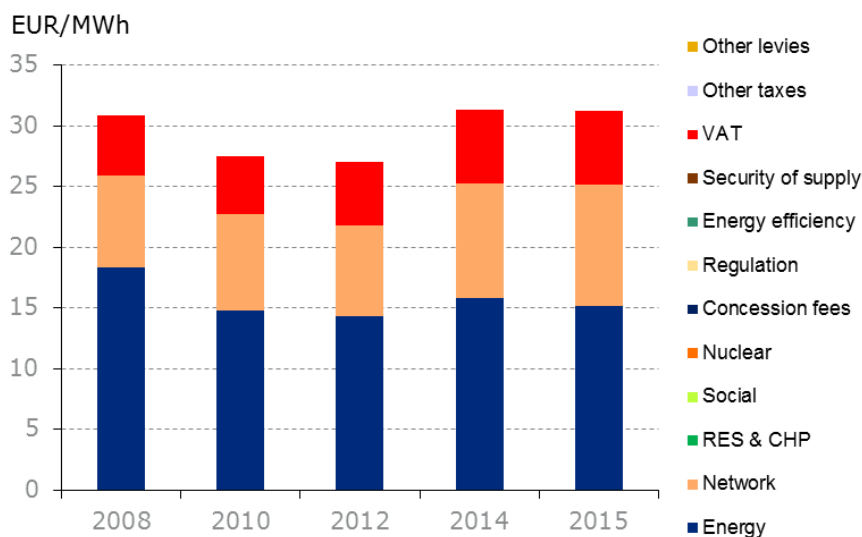
## Composition of electricity prices



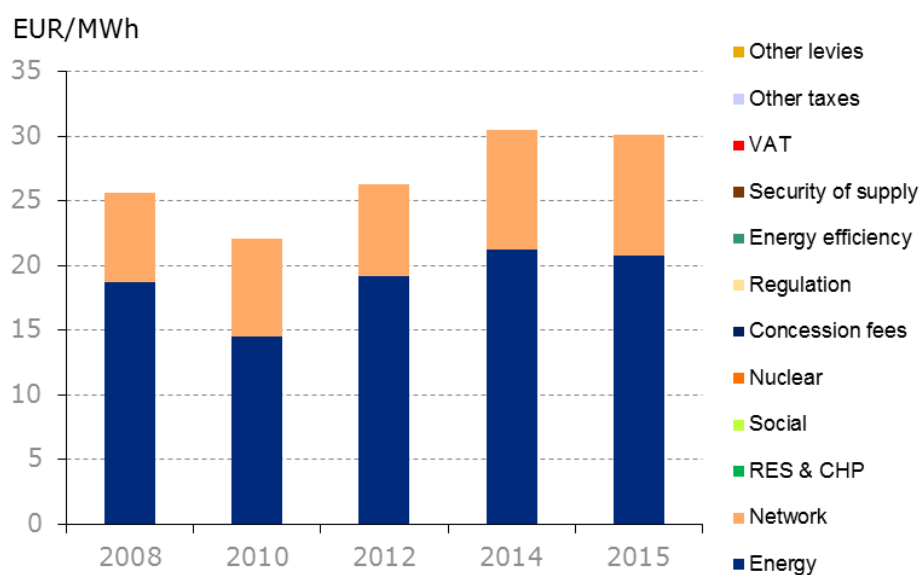


## Composition of gas prices

### Composition of median household gas prices

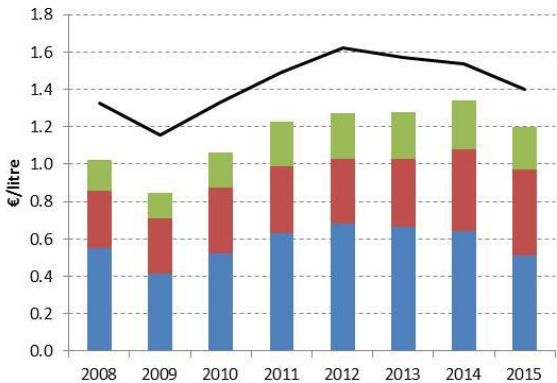


### Composition of median industrial gas prices

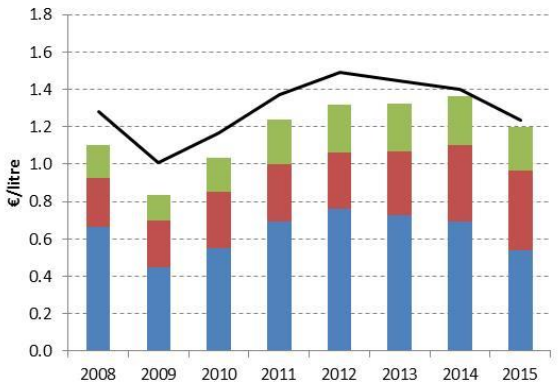


# Oil products prices

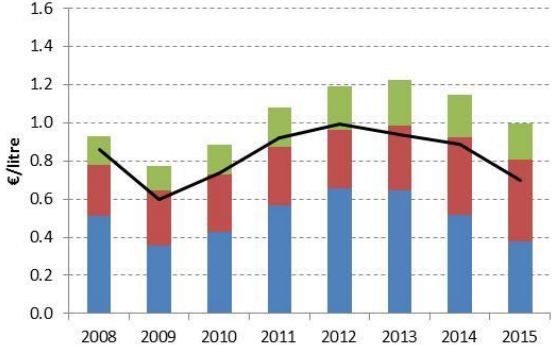
## Gasoline



## Diesel

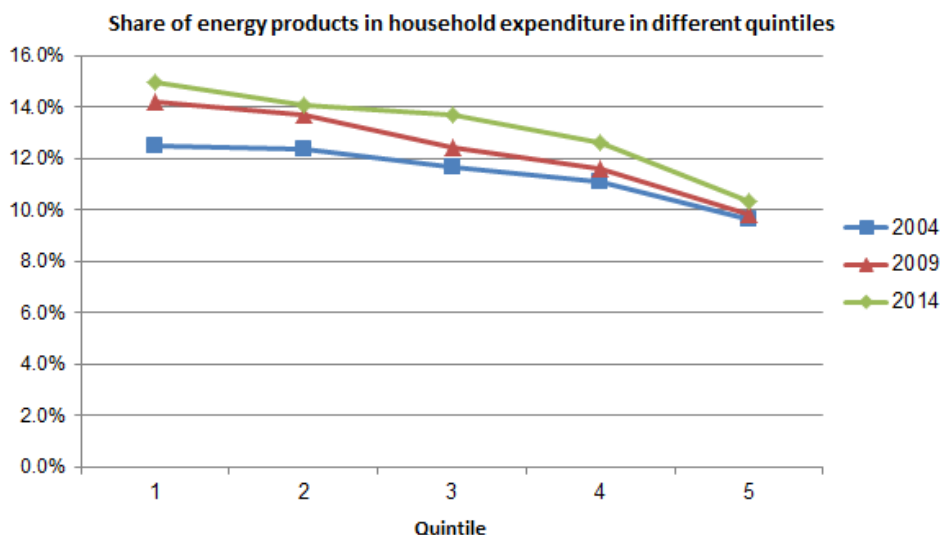


## Heating oil



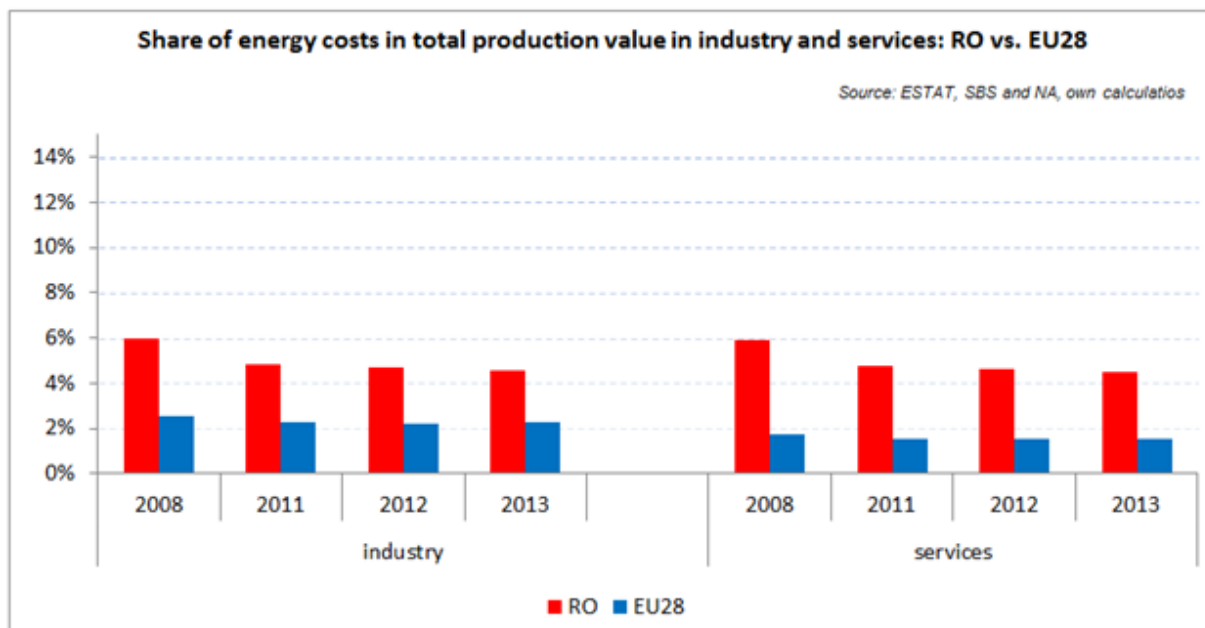
- VAT
- Excise duty and other indirect taxes
- Net price
- EU average price

## Energy in Households budgets



In Romania the share of energy in total household expenditure rose significantly between 2004 (blue line) and 2014 (green line): in the case of the poorest households (Quintile 1) it rose from 12.5% to 15%, while at the same time households with middle income (Quintile 3) also faced increasing share of energy in their expenditures (from 11.7% to 13.7%).

## Energy costs shares in total production costs



Notes  
 Data for Malta, Poland, Slovenia (prior to 2012) and Ireland (after 2012) is not available  
 Data for 2009 and 2010 is incomplete and not reported  
 Industry defined as NACE Rev.2 Section C (Manufacturing)  
 Services defined as NACE Rev. 2 Sections G - U

### Electricity and gas prices – Breakdown by price element

<b>Band DC</b>	<b>EUR/kWh</b>
	<b>2015</b>
Energy and supply	0.040904
<b>Total energy component</b>	<b>0.040904</b>
network	0.051956
<b>Total network component</b>	<b>0.051956</b>
Excise Tax	0.001077
VAT	0.025261
Support for RES and CHP combined	0.011326
<b>Total taxes &amp; levies component</b>	<b>0.037663</b>
<b>Total price</b>	<b>0.130523</b>
<b>Band IB</b>	<b>EUR/kWh</b>
	<b>2015</b>
Energy and supply	0.044738
<b>Total energy component</b>	<b>0.044738</b>
network	0.042116
<b>Total network component</b>	<b>0.042116</b>
Excise Tax	0.000599
VAT	0.000000
Support for RES and CHP combined	0.011581
<b>Total taxes &amp; levies component</b>	<b>0.012180</b>
<b>Total price</b>	<b>0.099033</b>

<b>Band D2</b>	<b>EUR/kWh 2015</b>
Energy and supply	0.015119
<b>Total energy component</b>	<b>0.015119</b>
Transmission	0.002151
Distribution	0.007892
<b>Total network component</b>	<b>0.010043</b>
VAT	0.006038
<b>Total taxes &amp; levies component</b>	<b>0.006038</b>
<b>Total price</b>	<b>0.031200</b>

<b>Band I3</b>	<b>EUR/kWh 2015</b>
Energy and supply	0.020729
<b>Total energy component</b>	<b>0.020729</b>
Transmission	0.002151
Distribution	0.007241
<b>Total network component</b>	<b>0.009392</b>
VAT	0.000000
<b>Total taxes &amp; levies component</b>	<b>0.000000</b>
<b>Total price</b>	<b>0.030121</b>