

Gathering evidence on energy prices for households

Claire Morel and Markus Fager-Pintilä, IEA for EU4Energy data team EU4Energy Policy Forum, Issyk-Kul, June 26th 2018

Overview



International price comparison

• Taxation: a major component of energy prices

Energy end-use: what are the consumers paying for?

End-user prices are widely available in focus countries





- National statistical offices in focus countries provide excellent coverage of energy prices
- IEA prices statistics, with support of EU4Energy, put all together in comparable format in the World Energy Prices database













Fuels end lubricants

Daily prices for automotive fuels are published by the statistical committee **in Kyrgyzstan**

http://stat.kg/en/daily-prices/

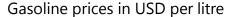


International price comparisons Household energy prices

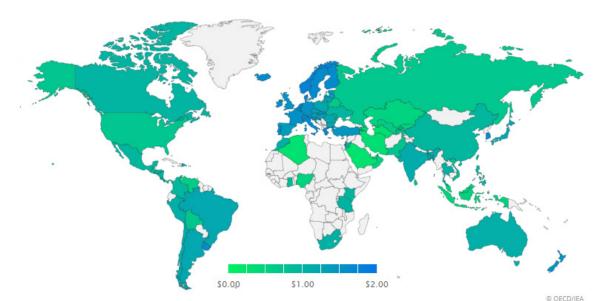
International comparison – gasoline

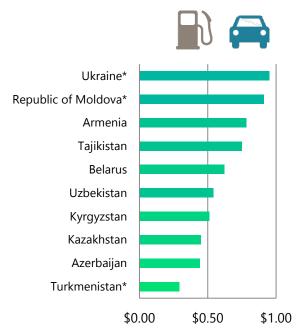






Mid-grade gasoline in 2017 unless otherwise specified*





Price range reflects diversity observed at the world level, outside Europe

Source: 2018 World Energy Prices, OECD/IEA, Paris
More information: http://wds.iea.org/wds/pdf/WorldEnergyPrices_Documentation.pdf

^{*} Ukraine, Republic of Moldova and Turkmenistan (mid-grade)

^{**}Armenia and Azerbaijan (regular gasoline, data for 2016).

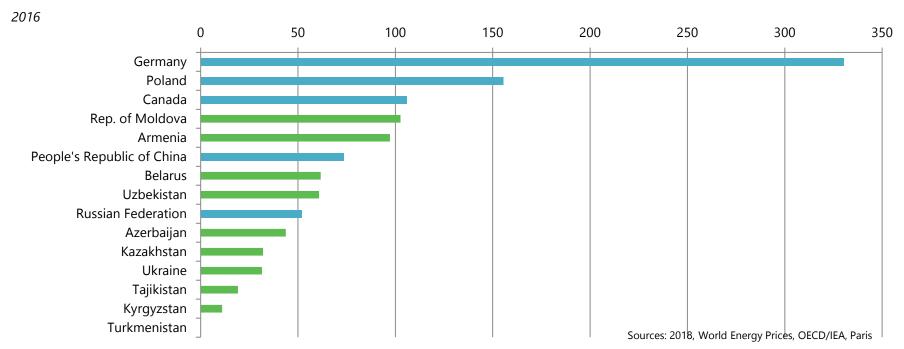
International comparison







Household electricity prices in USD per MWh



Highest "regional" prices paid by households close to North America

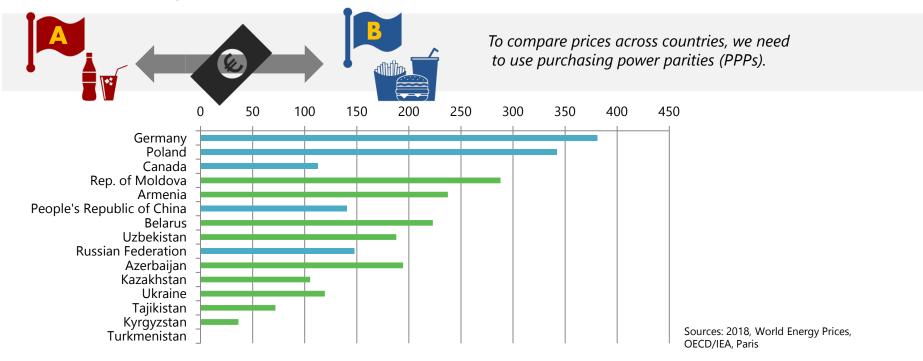
International comparison







Household electricity prices, 2016, in USD PPP per MWh



taking into account the differences in cost of living



Taxes A major component of end-user prices

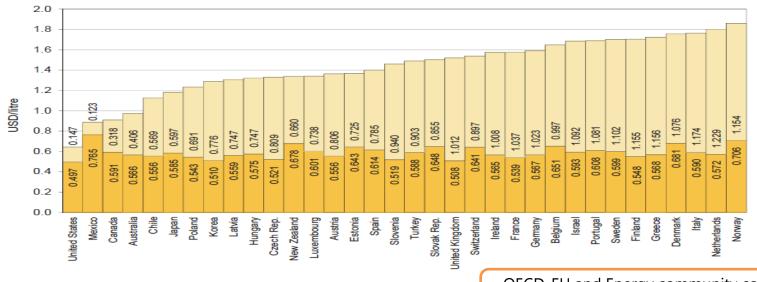
Taxation: a major component of end-user energy prices





Unleaded gasoline prices and taxes in OECD – 3Q2017

Ex-tax price Tax component



 Regular unleaded for Australia, Canada, Japan, Korea, Mexico, New Zealand and the United States premium unleaded 95 for all other countries. OECD, EU and Energy community countries publish quarterly data on energy taxes

Data on tax components is essential to understand end-user energy prices

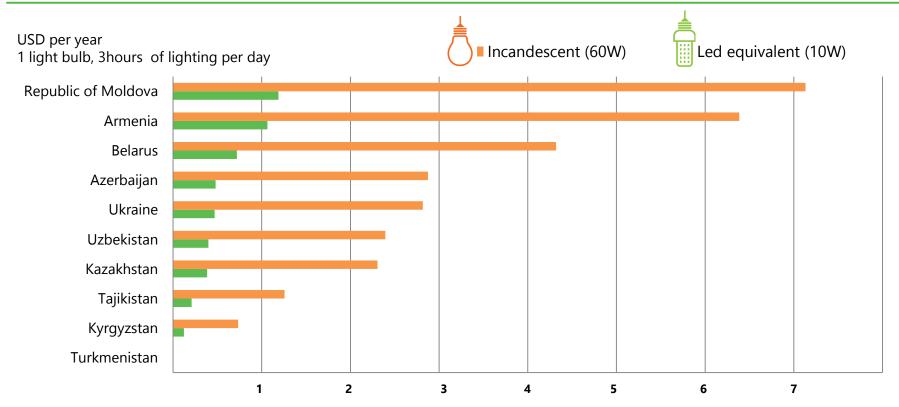


Energy end-uses Prices from a consumer perspective

How much do we pay to power a light bulb?







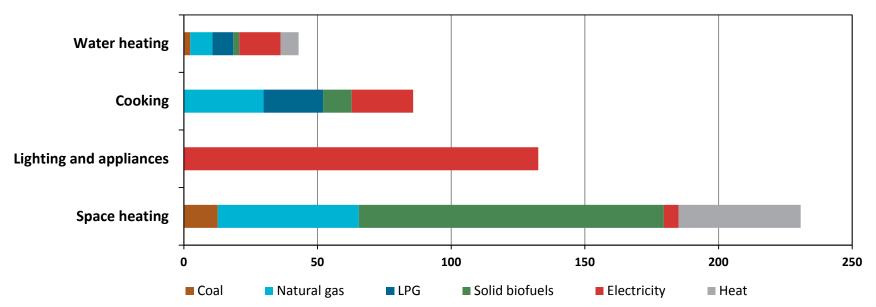
Data are based on average 2017 electricity prices for households except Azerbaijan, Armenia and Tajikistan (2016). Source: 2018 World Energy Prices, OECD/IEA, Paris More information: http://wds.iea.org/wds/pdf/WorldEnergyPrices_Documentation.pdf

What do households pay for?





Spending on energy in Moldova residential sector in 2015 (mln USD)



Footnotes: Data for the period 4/2015 - 4/2016. Cooling and other end uses account for < 1 mln USD thus they are not shown National Bureau of Statistics of the Republic of Moldova, 2016. Energy consumption in households and direct communication.

Understanding energy end-use is key

Conclusions





- Current statistical systems provide excellent data on end-user prices (except fuel wood)
- Additional data on tax components is key for price transparency
- But even more important is comprehensive end-use energy data :
 - How is energy used?
 - Who is/will be affected by prices changes?
 - How to mitigate?

More information





IEA Webinar: Energy Prices & Taxes



BOOK

Quarterly statistics

Energy prices and taxes

First quarter 2017

Company of the state of

https://youtu.be/PSj4-up0N3I

http://www.iea.org/statistics/prices/ prices@iea.org

