

How to adjust Ukraine's energy tariffs? International experience of energy reform and social protection

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Outline

1. Introduction

- 2. Poland Shock therapy
- 3. Hungary Adjustment with obstacles
- 4. Bulgaria Gradual increase and targeted support
- 5. Conclusions and recommendations

1. Introduction

- Ukraine faces the urgent need to adjust energy tariffs especially gas to market levels
- Other countries in the region have been in a similar position many of which have already completed their adjustment of energy tariffs
- Main question: How did these countries conduct the energy tariff adjustment and what lessons can be drawn?

To answer this question, we conducted case studies for Poland, Hungary and Bulgaria, which describe:

- The situation before the adjustment
- The speed of the adjustment process
- The complementary measures taken to cushion the tariff rise
- The socio-economic impact on incomes, energy costs, poverty, etc.
- What lessons can be learned for Ukraine's adjustment process?



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Poland was one of the first countries to adjust energy tariffs following the collapse of communism. Its adjustment period can be separated in two parts – a first period of rapid and steep price increases between 1990 and 1994 and a more gradual increase of tariffs thereafter.

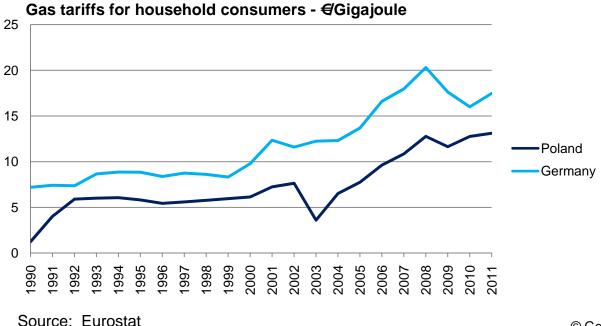
Situation before adjustment:

- The energy share of household's total expenditure ranged between
 2.5% for workers and 4.9% for pensioners before the adjustment in a system that substantially subsidised energy use
- Economic climate: Collapse of economic system; characterised through a deep recession with a 14% real GDP decline between 1991-1992
- Rising unemployment (reaching 16% in 1993) combined with low incomes and rising poverty incidence



Adjustment process:

- Introduction of a new pricing system for energy, including gas in the early 1990s; subsidies were eliminated over a four year period
- Natural gas tariffs increased by over 220% in 1991 and 50% in 1992
- Other prices were also adjusted: District heating tariffs increased sixfold until 1994





Complementary measures:

- Despite sharp increase, new tariff policy was not accompanied by any specifically designed measures to protect the poor
- Additionally, existing social assistance programmes poorly designed and badly administrated – so could not cope with increase in fuel poverty
- Ineffective administration, mostly through local governments, led to patchy distribution of social benefits
 - Support funds to be distributed by local government partly used for unrelated public spending, for example road maintenance
 - Indeed, in 1995 one-third of eligible poor families did not received the full benefit they would have been entitled to
- To address the issues a housing allowance system was introduced in 1995 – yet flaws persisted
- Complex eligibility criteria led to a low coverage only 6% of households benefitted in September 1997



Socio-economic impact:

- By 1993 the energy expenditure share of total expenditure rose to 8.8% for workers (from 2.5%) and to 11.7% for pensioners (from 4.9%)
- The average household spent around 7% of its expenditure on energy
 compared to below 4% in Germany in 1993
- The poverty incidence increased to 20% in 1993-94 (from 6% in 1987/88)
- The entire social insurance expenditure reached 20% of GDP in 1992 (from 4.7% in 1988)

However: The tariff adjustment coincided with the collapse of the Polish economy and increased energy tariffs only partly contributed to the increase in poverty and social security expenditure



Lessons learned:

- Tariff increase in Poland in the early 90s coincided with economic transition, high unemployment and rising poverty
- 2. Raising tariffs to market level in little more than two years proved too ambitious
- 3. Tariff increase was not accompanied with targeted social assistance
- 4. An outdated, bureaucratic social security system and public administration was not able provide the assistance necessary
- 5. Distributing support funds to local administrations was ineffective
- 6. Consequence: Energy subsidies were removed without having an alternative system in place to protect the poor
- 7. Second phase of Polish energy price adjustment much better managed and more relevant for Ukrainian experience
- 8. Ukraine today in a much more favourable, stable economic situation compared to Poland in the early 90s
- 9. Ukraine's poverty incidence lower, so no need for universal subsidies



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3. Hungary – Adjustment with obstacles

In Hungary the adjustment started later than in Poland in the mid-1990s. However, tariffs were not fully raised to cost recovery levels. Only later, in a second step between 2006 and 2010 the remaining subsidies were eliminated.

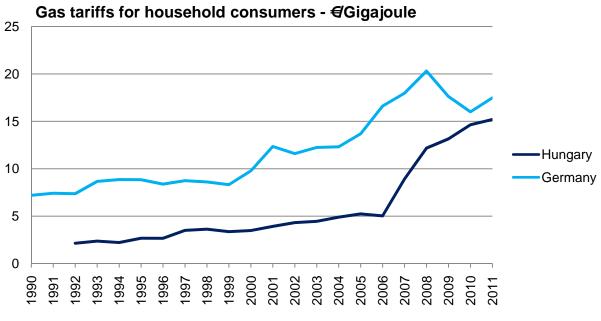
Situation before adjustment:

- Similar as other East-block countries Hungary's energy tariffs were highly subsidised at the beginning of the 90s
- Economic climate: In 1994 Hungary had overcome the worst of the post communism adjustment period
- GDP per head average USD 4,100 in 1994
- Although unemployment stood at 10%, the economy had started to grow again following an eye-watering 15% contraction between 1990 and 1993



Adjustment process:

- In the first adjustment step between 1994 and 1997 gas tariffs increased by 60%
- However, energy tariffs especially gas remained substantially below cost recovery level
- The second adjustment step took only place between 2006 and 2010 when subsidies were eliminated and tariffs reached market level





Complementary measures:

First adjustment period (1994-1997):

- Housing maintenance program was introduced in 1993, which provided financial assistance for rent, utility and heating
- Additionally, a temporary social energy fund in place from 1997 to
 1998 to buffer energy price increases support was means-tested

Second adjustment period (2006-2010):

- During the second adjustment period an additional social support instrument was introduced
- A special means-tested gas price allowance program was introduced in 2006 which was centrally managed by the treasury

Assessment:

 As such various energy assistance measures in place to assist to lowincome households



Complementary measures (continued):

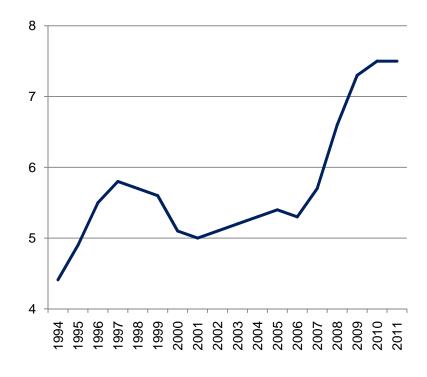
- Anecdotal evidence indicates poor targeting with less than half of the funds of the housing maintenance programme benefitting low income households – reducing effectiveness of the measure
- Moderate coverage: 200 000 households (4.8% of all households) benefitted from the housing maintenance program in 2000
- Bulk of the support was going towards rent, only 23% towards heating
- Assistance programmes were administrated locally and, since 1998, eligibility criteria were also set by local policy makers
- This contributed to low and inadequate coverage and unequal eligibility
- In some cases municipalities spend social funds on other purposes
- In comparison, the gas price allowance programme introduced during the second adjustment period 2006-2010 was more comprehensive
- But the instrument was rather expensive with annual cost of USD 600 m it accounted for 83% of all housing support and equalled 0.4% of GDP in 2007 © German Advisory Group 14



Socio-economic impact:

- Energy cost share increased from around 4.0% in of expenditure in 1994 to 7.5% in 2011 however, even declined between 1997 and 2001
- Delayed adjustment was a large burden on budget
- The gas price allowance programme from 2006 had to be scaled down in 2011 as it was a drain on public finances

Energy cost expenditure as share of total expenditure, %



Source: Eurostat



Lessons learned:

- Timing of energy price adjustment in Hungary more favourable since worst effects of economic fallout following the collapse of communism were over
- However, adjustment steps too timid and discontinued in 1997 well below market level
- 3. Allowing local authorities to decide about how and whom to support turned out to be not effective
- As a result, social assistance lacked uniform eligibility and adequate levels of provision – low income household were not sufficiently protected
- 5. This may have contributed to lack of political will to raise energy tariffs to full market level after 1997
- 6. Final adjustment postponed for too long at high cost to Hungarian economy
- However, when second period tariff increase finally happened, it featured an effective social assistance programme



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In Bulgaria natural gas is the most important fuel for district heating. District heating tariffs were continuously raised between 1997 and 2005.

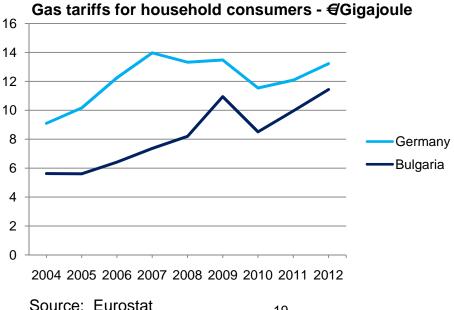
Situation before adjustment:

- District heating provided heat for around 20% of population, accounting for 23% of final energy use in 1997
- Energy expenditure as share of total expenditure was around 12% at the end of the 90s (with a 14.2% share for poor households)
- In 1997 37% of population were considered poor according to the World Bank measure¹⁾
- Consequently, social protection of low income household had priority Economic climate:
- Economic transition to a market economy was marked through high inflation, declining incomes (income per head fell by almost 50% between 1990 and 1997 to USD 1,300 per head) and rising poverty
- Unemployment peaked at 18% in 2000



Adjustment process:

- Continuous, gradual adjustment process
- District heating prices raised by approx. 10% every year between 1997 and 2005 when universal subsidies were completely abolished
- After subsidies were eliminated natural gas tariffs and consequently district heating tariffs increased further reflecting rising global energy prices





Complementary measures:

- In Winter 1996/1997 together with European Union support the Winter Supplement Program (WSP) was introduced
- The WSP provided means-tested energy cost assistance during the winter season (November to March) for low-income households
- Link to existing social security system: People qualified for WSP payments when they were eligible for social assistance (i.e., income is under a guaranteed minimum income defined by the government)
- Initially, in 2001, the programme was partially funded by local government and partially funded by central government
 - Problem: Municipalities experienced lack of funding, spent money on other purposes
 - Consequence: 30% funding deficit and reduced protection of regional households
 - Full national funding from 2003 eliminated the problems on municipal level
- Parallel to the adjustment Bulgarian government focused on energyefficiency measures to lower energy expenditure



Complementary measures (continued):

Assessment:

- The World Bank testified the WSP extremely effective targeting after initial problems with local funding were resolved
- In 2007, 70% of the funds disbursed were going to the poorest 10% of households
- Assistance averaged USD 97 in the winter 2002/2003
- Although it covered only approx. 70% of the average household heating costs, flat rate subsidy meant it left intact incentives to reduce energy consumption
- Especially, as support for reducing energy consumption was available
- Given its effective targeting, WSP did not overburden government finances



Socio-economic impact:

- The average household energy expenditure rose to 15% in 2007 (from an estimated 12% in 1997)
- The WSP spending amounted to USD 60 m annually
- As such, WSP equalled only 1.2% of all social spending and 0.2% of GDP in 2007
- Therefore only a small burden for the national budget, but very effective
- Poverty incidence declined to 23.9% in 2010 compared to 37% when adjustment was started
- Income levels rose to USD 7,242 per head in 2010



Lessons learned:

- 1. Energy tariff adjustment in Bulgaria very successful
- 2. Gradual, predictable yet decisive increase of tariffs and parallel removal of subsidies
- 3. The Bulgarian government succeeded in installing a well-targeted and thus cost effective social assistance programme
- 4. Link to existing well-working social assistance instruments reduced the cost of administrating the energy cost support programme
- 5. Eventual full central government funding and administration addressed initial short comings
- 6. Level of support largely adequate while not overburdening public finances
- 7. EU provided financial and technical assistance for first years
- 8. Flat rate support left incentives for reduction of energy use intact
- Additional support for energy efficiency improvements helped households to reduce their energy bills



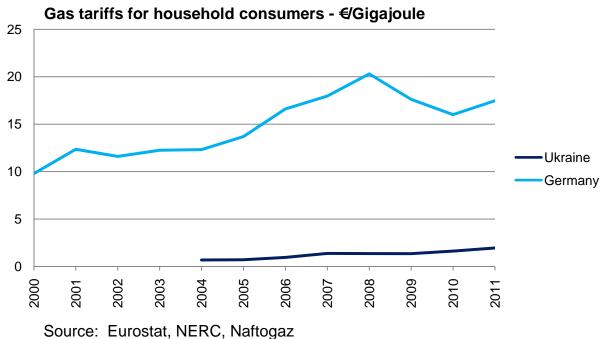
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Ukraine's situation before adjustment:

- Gas tariffs for households and heating companies significantly below import cost - <u>however</u>, industry and public sector pay tariffs close to market level
- Adjustment started in 2005 and gas tariffs increased by over 300% since 2004
- However, this rather reflects the extreme low starting point tariffs were below import prices even before import costs started to increase
- Further substantial adjustment needed





Although the situation in Ukraine is unique, a number of conclusion can be drawn from the case study analysis:

Tariff adjustment

- Ukraine's large adjustment need and long delay in aligning tariffs mean that the initial increase has to be substantial – similar to Hungary's second tariff adjustment process in 2006
- A significant gas tariff increase of at least 50% at the beginning of the adjustment process would send the signal that the government is committed to align gas tariffs with import costs
- After the first large increase further increases should be gradual and predictable
- Substantial adjustment steps are needed towards full cost recovery.
 Hungary's <u>second</u> adjustment period provides a good example



Complementary measures

- Unlike Poland before the adjustment, the economic situation in Ukraine is more stable
- Poverty incidence declined over the last years a large share of households can now afford to pay a fair price for energy tariffs
- Bulgarian experience shows that well-target measures can effectively protect the poor households at low cost to the government
- Bulgaria's use of existing social welfare programmes suggests that this is a effective way to distribute funds which reduces administrative cost
 - With the "Low Income Family Support" Programme a well-targeted programme exists in Ukraine – yet level of funding too low for effective support (see PB/02/2012)
- Polish, Hungarian and, to some degree Bulgarian, experiences suggest that distributing social protection funds is best done through central government – and not through municipalities



Complementary measures (continued)

- Bulgarian case indicates that accompanying tariff increases with support for energy efficiency in households can reduce adverse impact on households and increase political acceptance
- Social support should maintain incentives to reduce energy consumption – e.g. flat rate amount. This also reduces the administrative burden
- Like Bulgaria, the Ukrainian government should make use of international technical and financial assistance, which would be available to support a credible energy policy reform concept



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