

MEDPRO High-Level Stakeholders Meeting in Cairo

Session 5: Energy

Final Scenarios and Policy Implications & Recommendations

Energy Subsidies: Issues and Alternatives

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Outline



- 1. Universal Energy Subsidies: a complex & pressing issue
- Alternatives: Targeted support-Jordan's experience & best practices
- 3. Lessons on targeted support

1. Universal Energy Subsidies: a complex & pressing issue

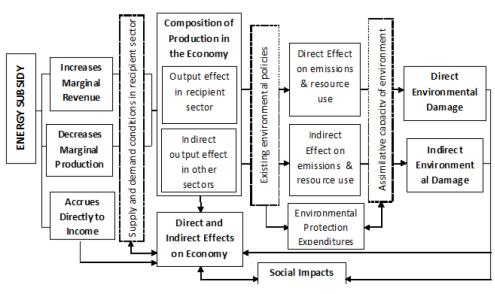
Excessive energy bills (high consumption x prices/revenues) harm living standards and socio-economic development leading to energy poverty (access limited) & poverty

- → MED South response: universal energy price consumption subsidies (all customers) for fuels and network energies
 - Egypt (% of customer prices): 75% for diesel, 90% LPG, 80% natural gas, 30% electricity
 - Politically & socially hyper-sensitive
- > Diagnostic: little efficient and unsustainable
 - Inefficient to mitigate energy poverty: limited impact for the poor as restricted access and low consumption
 - Unfair: 70% of subsidies benefit the wealthiest (Egypt: 20% richest receive 40%) but cost paid by all
 - Costly: high burden for state budgets (EGY: 20%, 12% GDP 2010)
 - Detrimental to demand control, EE and RE
 - Create shortage at expense of households and businesses
 - Encourage smuggling and pollution

Energy Subsidies (UNEP)



Fig. 1.1 Social, Economic, and Environmental Impacts of Energy Subsidies (UNEP)



Source: adapted from UNEP (2004)

2. Alternatives: Targeted support Jordan's experience & best practices



A. 1st Reform phase (2005/2010)

- 1. Gradual phasing out of universal fuel price subsidies (2008: 5% → 2010: 2% of GDP); oil product prices liberalized (except for LPG) with automatic fuel price adjustment mechanism
- 2. Targeted support/main tools
- Targeted subsidies by National Aid Fund → individual safety net cash assistance in the winter (households below USD 1,100/year) and social assistance: monthly aid of USD 40 per family member with maximum of USD 250
- Lifeline (or "block") electricity tariff (4 tranches up to >500 kWh/month)
- Increase of civil servant salaries (~ 60% of population)
- → Targeted support: 30-50% cheaper than initial subsidies



- > 2011: Partial return to fuel subsidies & electricity price imbalances
 - Back to fuel price subsidies for oil products (% of customer prices): 20% for diesel, 84% LPG (USD 230m/y)
 - Electricity prices below cost: Generation cost/20c€/kWh vs. retail prices/9c€/kWh (56% subsidy) → NEPCO 2011 losses: \$2bn or 12% of GDP
- > 2012: New reform
 - Sudden phase out of fuel subsidies (Nov.) without safety net → riots
 - Targeted subsidies by National Aid Fund
 - Planned increase of "block" electricity tariff for >600-700 kWh tranche
 - → Incentives for:
 - EE: NEEAP (National Energy Efficiency Action Plan) approved, focus on Standards and Labels for appliances, audits and investment cofinanced by JREEEF-EE&RE fund)
 - RE: SWH (compulsory for most buildings from April 2013), PV net metering (residential & commercial), to speed up large RE investment procurement

3. Lessons on targeted support

1. Tools

- Accurate and up to date statistical system on social, economic and energy situation → demand surveys and database
- Effective individual database of vulnerable households by dedicated public agency
- 3. Field and simulation studies and surveys by multi-skill teams inc. sociology
- 4. Neutral and clear communication

2. Steps

- 1. Targeted support studies & pilots to design specific scheme
- 2. Clear & gradual path of reforms: phase out of universal subsidies compensated by targeted support to vulnerable families with mix tools (cash, tariff, salaries increase...etc.) and close monitoring
- 3. Ensure security of supply (limit shortages)

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