

Energy Sector Reform in Moldova

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PLAN

1. Moldova's Energy Sector Problems
2. Reform Stages of the Energy Sector

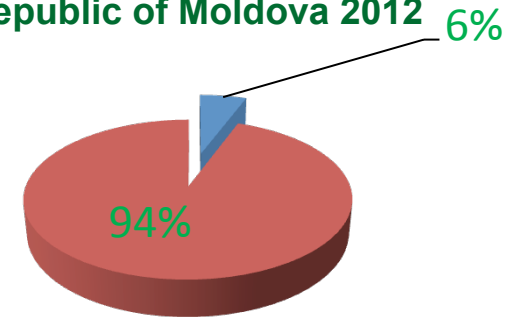


3. Reforming Energy Sector in Moldova:
Policy Documents
4. Conclusions

Moldova's Energy Sector Problems

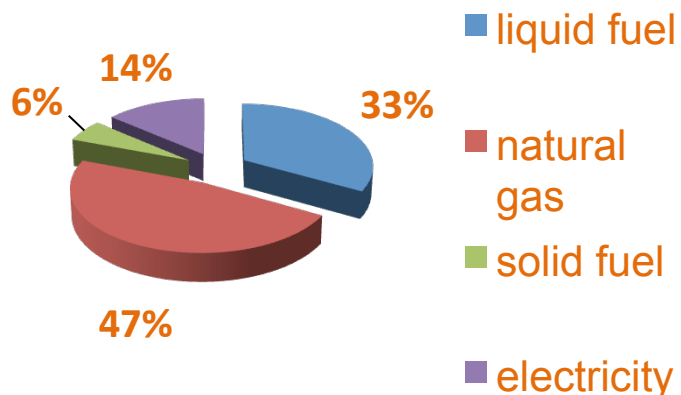
Dependency on external energy supply (more than 98%);

Energy Balance of the Republic of Moldova 2012



■ internal sources
■ imported sources

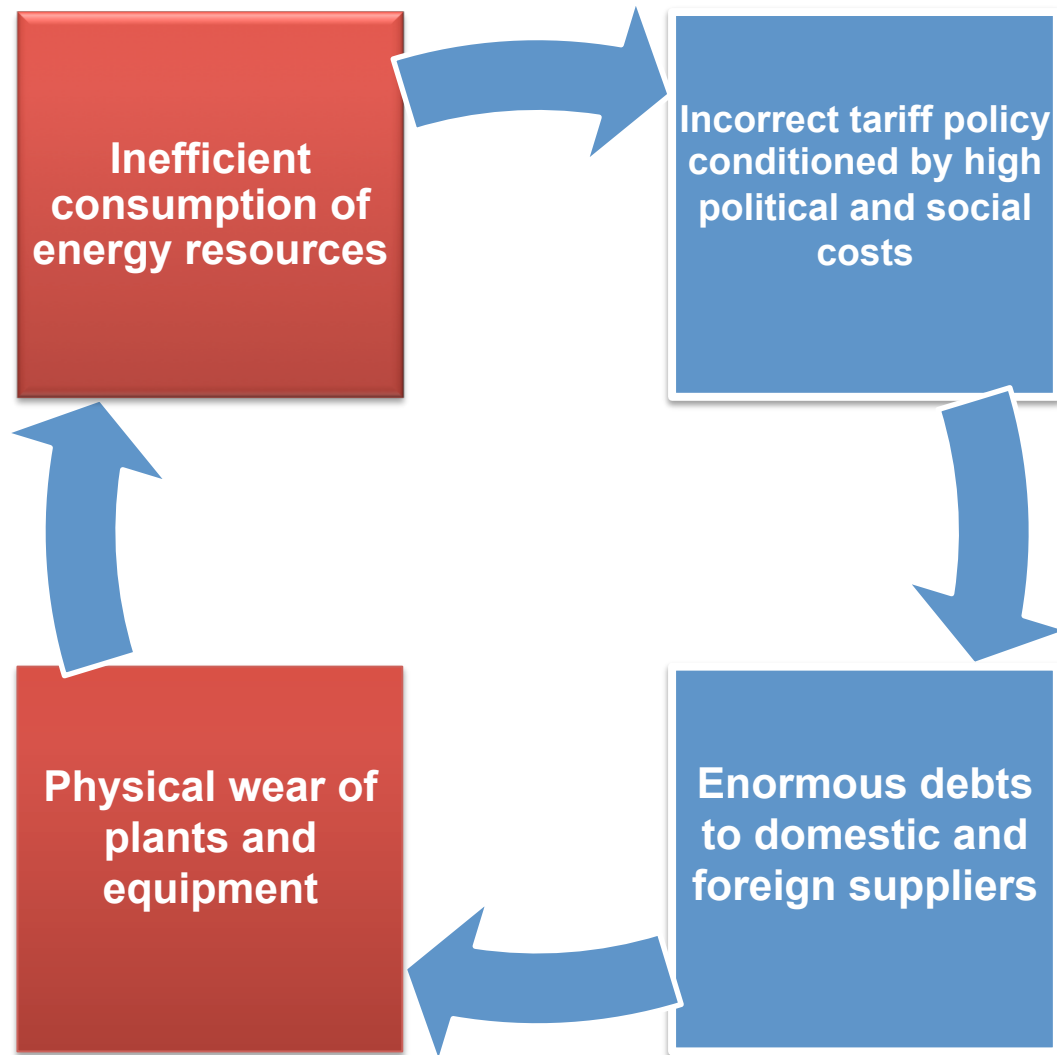
Import structure by types 2012



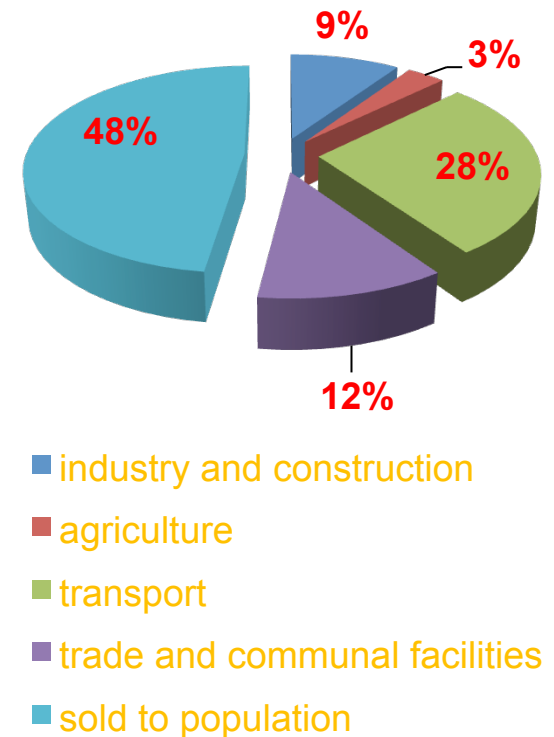
Energy imports by country in 2013

	I	II	II
Gasoline	Romania	Bulgaria	Belarus
Natural Gas	Russia	-	-
Liquid Gas	Kazakhstan	Russia	Romania
Diesel	Romania	Russia	Belarus
Electricity	Ukraine	-	-

Moldova's Energy Sector Problems



Internal consumption 2012



Reform Stages of the Energy

Sector

First stage
1995 – 2001

- Generalization of electric power system;
- Privatization of electric power and natural gas infrastructure;
- Attracting investments in energy sector;
- Developing the regulatory and institutional framework;

Second
stage
2001-present

- Introduction of free competition by opening up market access for private enterprises;
- Liberalization of prices set by market supply and demand;
- The further development of the regulatory and institutional framework;

Reforming Energy Sector in Moldova: Policy Documents

- **ENERGY STRATEGY OF THE REPUBLIC OF MOLDOVA 2030;**
- **NATIONAL ENERGY EFFICIENCY ACTION PLAN FOR 2013-2015**
- **NATIONAL ENERGY EFFICIENCY PROGRAM 2011-2020;**

ENERGY STRATEGY OF THE REPUBLIC OF MOLDOVA 2030

Energy Strategy priorities are:

strengthening the concrete status
as a transit country for power and
natural gas through the
enhancement of the bidirectional
transmission connections;

building new generation
capacities and refurbishing the
existing ones aimed at full
commercial strengthening and
exploitation of the power
generation internal capacity

The Strategy is defining three main objectives:

to ensure the energy
supply security;

to develop
competitive markets
and ensure their
regional and
European integration;

to ensure the energy
sector's sustainability
and combat climate
changes;



ENERGY STRATEGY OF THE REPUBLIC OF MOLDOVA 2030

Strategy sets out two stages of action:

2013-2020:

- to ensure the natural gas supply safety, by diversifying the supply routes and sources;
- to strengthen Moldova's role of power transmission corridor,;
- to create a strong power and heat generation platform;
- to improve the energy efficiency and increase the use of renewable energy sources;
- to provide legal, institutional and operational framework for a real competition, to effectively open the market, set up energy prices in a transparent and fair way, integrate the Moldovan energy market into the EU internal market;
- to provide a modern and competitive institutional framework for the energy industry development.

2021-2030:

- to ensure and enhanced use of renewable sources. Scenarios on long term availability of carbon capture and storage;
- to improve energy efficiency;
- to introduce intelligent power networks;



The *purpose* of the NEEAP relates exclusively to efficient energy consumption and reduction of greenhouse gas emissions.

The *objective* of the NEEAP is to reduce the energy end-use in all national economy sectors by 428 ktoe, and cut the emissions of CO₂ by 962 848 tonnes during 2013-2015.

**NATIONAL
ENERGY
EFFICIENCY
ACTION PLAN
FOR 2013-2015**

The NEEAP defines a set of *measures*, which implementation will lead to energy savings in different sectors of the national economy, as well as to cutting the imports of natural gas, liquid fuels (gasoline, diesel and liquefied gas) and of electricity.

The expected results of this NEEAP are as follows:

energy savings - 428 ktoe by 2015, with the reduction of GHG emissions with 962 848 tonnes of CO₂;

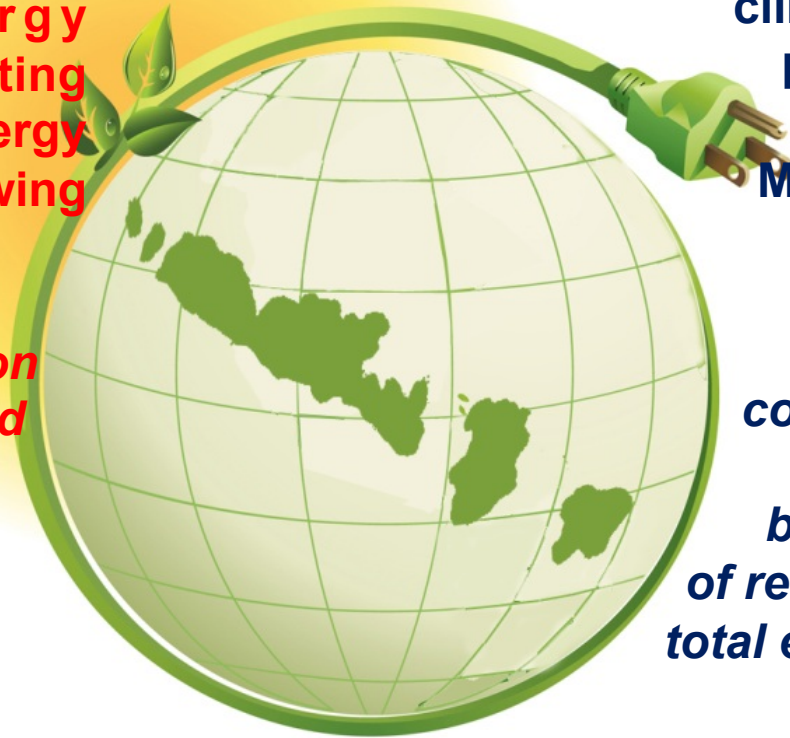
energy savings - 867 ktoe by 2016, with the reduction of GHG emissions with 1 951 294 tonnes of CO₂.

NATIONAL ENERGY EFFICIENCY PROGRAM

2011-2020

The purpose of the Program is to increase energy efficiency by implementing efficient measures for energy consumption in the following sectors:

- a) energy transformation sector, including all related activities: production of electricity and thermal energy, transport and distribution of electricity, heat and natural gas, and final consumption of all types of energy resources;*
- b) industry;*
- c) construction;*



In order to reduce dependence on imported energy resources and energy sector impacts on climate change Program provides the following overall objectives for Moldova, relative to the base year 2009:

- a) improving global primary energy consumption by 20% by 2020;*
- b) increasing the share of renewable energy in the total energy mix from 6% in 2010 to 20% in 2020;*
- c) increasing the share of biofuels to at least 10% of all fuels used in 2020;*
- d) reduction by 2020, at least 25% of emissions of*

Energy Sector Reform in Moldova

HOTĂRÎREA Guvernului Republicii Moldova Nr. 833 din 10.11.2011 cu privire la Programul național pentru eficiență energetică 2011-2020 on

<http://lex.justice.md/index.php?action=view&view=doc&lang=1&id=340940> ;

HOTĂRÎREA Guvernului Republicii Moldova Nr. 113 din 07.02.2013 cu privire la aprobarea Planului național de acțiuni în domeniul eficienței energetice pentru anii 2013-2015 on

<http://lex.justice.md/index.php?action=view&view=doc&lang=1&id=346722> ;

HOTĂRÎREA Guvernului Republicii Moldova Nr. 102 din 05.02.2013 cu privire la Strategia energetică a Republicii Moldova până în anul 2030 on <http://lex.justice.md/md/346670/> ;

Official web-page of Ministry of Economy and Trade of the Republic of Moldova.

<http://www.mec.gov.md/ro/content/energetica> ;

Official web-page of National Bureau of Statistics of the Republic of Moldova

<http://www.statistica.md/category.php?l=ro&idc=128&> ;





Thank You!

Import and transit of natural gas, ml m3					
Imports	1227	1126	1188	1152	1096
Transit	22974	17667	16804	19890	19620
P r e ț u l m e d i u a n n u a l p e n t r u Moldova	232.30	263.85	250.12	339,33	393.97
Year	2008	2009	2010	2011	2012