



## Republic of Belarus





### Role of international organizations in promoting technology transfer and innovations in the field of renewable energy in the Republic of Belarus

*Vladimir KOUZMITCH,  
Energy Engineering & Consulting Company “ENECA”*

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### State policy in the field of renewable energy in the Republic of Belarus



**Territory: 207 600 sq. km**  
**Population: 9,480 mln.**

- ◆ The Law “On renewable sources of energy”  
December 27, 2010.
- ◆ The Strategy for the development of the energy  
potential of Belarus” August 2010
- ◆ The National Programme for the Development of  
Local and Renewable Energy Sources in 2011 -  
2015

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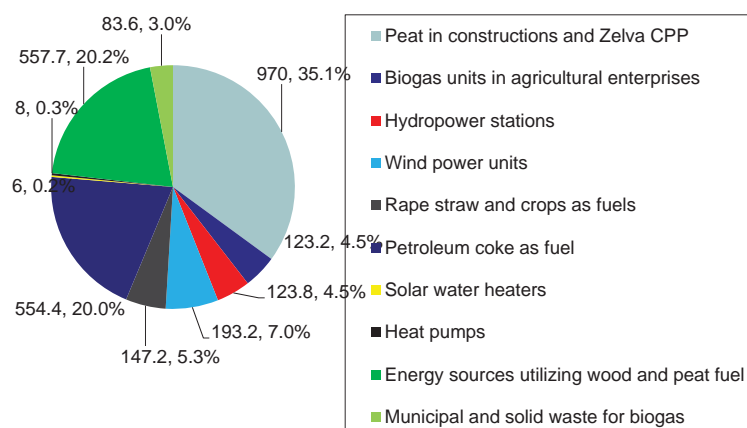
Local fuel and renewable fuel energy resource applications in Belarus in the years 2011-2015



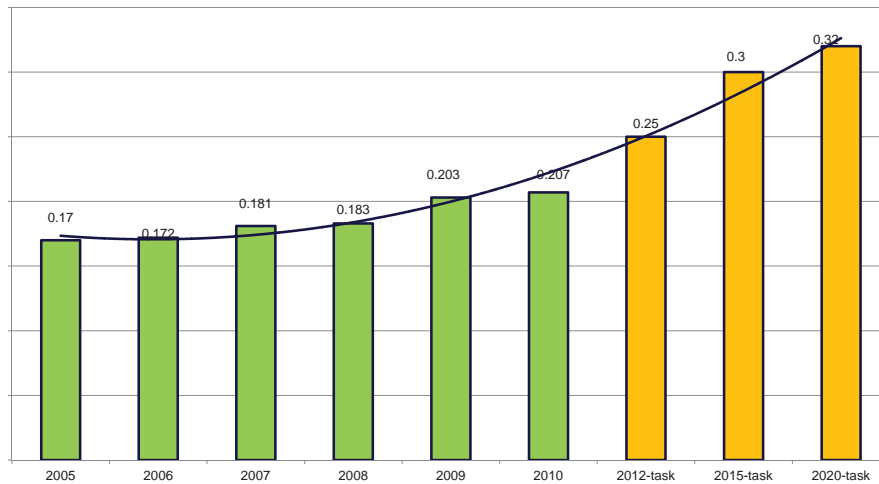
Area	2011-2015
Energy sources utilizing wood and peat fuel, MW <sub>e</sub> /MW <sub>h</sub>	49/1063
Biogas units, MW <sub>e</sub>	90
Construction of new hydropower stations and renovation of the existing ones, MW	102
Construction of wind power units, MW	460
Solar water heaters and solar units, pcs.	172
Heat pumps to utilize low-potential RES and geothermal energy, MW	8,9

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Increasing the use of local fuel, including renewable energy, till 2015



## The share of domestic energy resources (including RES) in the energy balance



## International Technical Cooperation



### The National Programme of the International Technical Cooperation 2012 – 2016

(Government Decree 4 May 2012 № 411)

- **Coordinator** – Ministry of Economy
- **Ministry of Foreign Affairs** is working to attract international technical assistance in priority areas

2010 - 42 million U.S. dollars

2011 - 46 million U.S. dollars

2012 – more than 50 million U.S. dollars

2012-2016 – 114 project proposals (411,5 million U.S. dollars)

Main donors of international technical assistance in the field sustainable energy in the Republic of Belarus



## European Union

*The National Indicative Programme for Belarus for 2012-2013  
European Neighbourhood and Partnership Instrument (ENPI)*

## UNDP/GEF and UNECE

*UN Framework Program for Republic of Belarus, 2011-2015*

## Word Bank

## EBRD

### EU Strategy for Republic of Belarus (ENPI) for 2007-2013



2007	Energy sector, EE, RWE, 2 pilot projects
2008	Environmental
2010	Standardization & energy efficiency
2011	Regional & Local Development, including sustainable energy
2012	Green Economy, including RWE development

## UNDP/GEF and UNECE



2003-2008	The use of biomass for heat & power generation
2007-2010	Removal of barriers to energy efficiency
2011-2015	Improving energy efficiency in residential buildings
2011-2015	Development of wind power
2013-2017	Green Cities

## World Bank (loans)



2002-2010	Thermal rehabilitation in the social sphere (37,6 million U.S. dollars)
2007-2013	Thermal rehabilitation in the Chernobyl zone (80 million U.S. dollars)
2009-2014	Improving energy efficiency (125 million U.S. dollars)
2014-2019 разработка	Improving energy efficiency boiler-houses & mini-CHP on local fuel

## EBRD



1993-1998	Construction of steam gas unit (CHP Orsha)
В настоящее время	Lines of credit for small & medium businesses
2012-2014	BeISEFF Project with technical assistance of credit line (50 million euros) for EE & RWE projects
2013-2014	Capacity building of the Belarusian Renewable Energy Association

## RES support system in brief



- ✓ Guaranteed connection to the state-owned energy grid
- ✓ Guaranteed purchase of all proposed electrical energy produced from RES
- ✓ Protection against unfair competition
- ✓ Expansion (reconstruction) of RE plants
- ✓ Independent identification of energy facilities location
- ✓ High feed-in-tariffs compared to EU standards
- ✓ No VAT and import duties on RE equipment
- ✓ No land tax on land plots occupied by RE installations
- ✓ A highly developed electrical grid

Incentive multipliers for RES electricity tariffs



RES using the energy of:	RES unit operating period	
	First 10 years after being put in operation	Next 10 years
Wind	1,3	0,85
Natural water flows		
Firewood and other types of biomass		
Biogas		
Geothermal and other energy not included in non-renewable ones		
Solar	3,0	

Стимулирующие тарифы  
в долларах США (на 3. 03.2013)



electricity from biogas, wood, hydro, wind, geothermal	for the first 10 years from the date of commissioning of electricity generation	<b>USD 0.18 per 1 kWh</b>
	the following 10 years	<i>USD 0.12 per 1 kWh</i>
electricity from solar	for the first 10 years from the date of commissioning of electricity generation	<b>USD 0.41 per 1 kWh</b>
	the following 10 years	<i>USD 0.12 per 1 kWh</i>



## Wishes



- International donors in the coming years to increase the TA in the creation of conditions for the development of sustainable energy in the Republic of Belarus
- Improve bilateral cooperation with the agencies of international cooperation of European and other countries in the field of sustainable
- Expand cooperation with IRENA
- Engage in bilateral cooperation with the Associations of RES in the partner countries of the OSCE in promoting innovation and the transfer of clean



## Republic of Belarus



**Thanks a lot for your attention**

**We invite you to participate in a mutually-beneficial cooperation!**

Contact information: Republic of Belarus  
220125, Minsk,  
177-1, Av. Nezavisimosti  
Tel.: +375 29 611 07 35  
Email: kouzmitchv@yandex.ru