Improving Energy Efficiency and Use of Renewables in the Republic of Belarus

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Objectives for energy efficiency and use of domestic and renewable energy sources in the Republic of Belarus

1. Reduce the GDP energy intensity:
   - by 29-32 per cent in 2011-2015;
   - by 20 per cent in 2016-2020.

2. Ensure energy saving (in comparable conditions):
   - at least 7.1-8.9 million tons of fuel equivalent in 2011-2015;
   - at least 5.2 million tons of fuel equivalent in 2016-2020.

3. Ensure use of domestic energy resources in the energy balance for the production of heat and electric power:
   - at least 25 per cent in 2012;
   - at least 30 per cent in 2015.
GDP energy intensity in the World in 2010 (in the prices of 2005 on purchasing-power parity)
Main programme documents in the sphere of energy conservation and use of renewable energy sources

- **Republican Energy Conservation Programme for 2011-2015**
  - Tasks on fuel and energy resources saving;
  - Share of domestic fuel and energy resources use, including renewable energy sources in the boiler and furnace fuel balance;
  - Amounts and sources of funding of activities;
  - List of large energy efficiency projects.

- **National Programme for the Development of Local and Renewable Energy Sources for 2011-2015**
  - Putting in operation energy sources powered by wood and peat fuel with a total generator capacity of up to 49 MW and a total thermal capacity of 1 063 MW;
  - Putting in operation biogas production facilities with a generator capacity of up to 90 MW;
  - Building new and reconstructing the existing hydroelectric power stations with a capacity of 102 MW;
  - Building wind turbines with a capacity of 460 MW;
  - Introducing heat compressors that use low-grade waste energy and geothermal energy with a capacity of 8.9 MW;
  - Putting in operation 172 solar heaters and solar power plants.
Special-purpose programmes in the sphere of domestic fuels development, including the renewable energy sources

- State Programme of Building Energy Sources Powered by Local Fuels in 2010 - 2015
  - putting in operation about 160 energy sources with a generator capacity of about 32,7 MW, thermal capacity – of about 1023,3 MW

- Programme of Building Energy Sources Powered by Biogas for 2010 - 2012
  - putting in operation 38 biogas production facilities with a generator capacity of up to 37.9 MW

  - building and reconstructing of 33 hydroelectric power stations with a total capacity of 102.1 MW
Dynamics of financing the energy conservation in 2001-2015

<table>
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<th>Year</th>
<th>Fact (million USD)</th>
<th>Plan (million USD)</th>
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<tr>
<td>2001</td>
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<td>2002</td>
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<td>2015</td>
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Sources for financing the improvement of energy efficiency activities in 2012, %

- Own funds of enterprises: 34.2%
- Funds of republican and local budgets: 39.4%
- Loans and other funds: 26.4%
Cooperation with the World Bank

- Energy Efficiency in Belarus Project – 125 million USD (2009-2014)
- Post Chernobyl Recovery Project (additional loan) – 30 million USD (2011-2013)
Cooperation with the UNDP/GEF/UNECE

• Project “Biomass energy for heating and hot water supply in Belarus” – 3.129 million USD (2003-2008)

• Project “Removing barriers to energy efficiency improvements in the state sector in Belarus” – 1.4 million USD (2007-2011)

• New project “Improving energy efficiency in residential buildings in the Republic of Belarus” – 4.5 million USD (2012-2016)

• New project “Windpower development in Belarus” – 3.5 million USD (2013-2017)
Cooperation with the European Union

- Project “Support to the implementation of a comprehensive energy policy of the Republic of Belarus” - 5 million euro (2010 – 2012)

- Project “Standardization in the field of energy efficiency”– 9 million euro (2013 – 2015), including subcomponent “Developing an integrated approach to a stepped-up energy saving programme” - 2 million euro

- Project “Green economy in Belarus” – 12 million euro (2013 - 2016), including investment component on windpower development
Thank you!

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