



United Nations Educational, Scientific and Cultural Organization International centre under the auspices of UNESCO



World Science Forum Thematic Session "Renewable Energy for Global Sustainability" Budapest, 6 November 2015

Yury Posysaev

Executive Director

International Sustainable Energy Development Centre under the auspices of UNESCO

Sustainable Energy for All Initiative



- 1) achieving universal access to modern energy services
- 2) doubling the global rate of improvement in energy efficiency
- 3) doubling the share of renewable energy in the global energy mix



Goal 7: Ensure access to affordable, reliable, sustainable and modern energy for all

dable, reliable, gy for all

By 2030, increase substantially the share of RE in the global energy mix







2003 – 2013

the use of RES has increased in 4 times

140 countries have formulated target indicators for the development of RES till 2020 and for the longer term

According to various forecasts, it is assumed that the total share of renewables in the global energy mix by 2030 will be from 25 to 35%



relatively high (for that period) prices on traditional energy resources



the desire of importers to diversify their sources in order to enhance energy security



restriction of the environmental regulations



active promotion of policies and measures on expansion of renewable energy in a number of developed countries The cost of RE technologies is **in 3 or more times** more than the cost of traditional energy sources per **1 MW** of installed capacity





Additional annual investment of **200 billion of US** dollars per year is needed for the development of renewable energy globally

RES Development in Russia



State Plan of the Russian Government



Share of RES in total electricity production (excluding hydro over 25 MW)



To achieve this target indicator, it was planned to put into operation RE facilities with a total capacity of about **25 GW** Today, The Duration Ministry of

Today, The Russian Ministry of Energy foresees:

total increase in capacity of RE facilities2015by 2024from 700 MWto 6000 MW

Motivation for RE development in Russia need of power supply in hard-to-reach and remote areas, which are not covered by existing centralised power supply systems

3% of the current installed capacity

RES Development in Russia

According to the results of the tender for construction of RE facilities there has been approved

- 76 projects
- total capacity of over 1 GW
- total investment volume > \$1.7 billion





Promotion of national, regional and international networks of universities and other educational and research institutions involved in the training of specialists for RE



Implementation of joint educational programs



Exchange of information and practical experience

UNESCO/ISEDC Co-sponsored Fellowships Programme



Geography of Fellowships Programme 2008 – 2015

- for young specialists from developing countries and countries with economies in transition
- 9 educational sessions
- 141 participants from 77 countries

PURPOSE:

to create a multinational platform for development of international cooperation in the field of sustainable energy development; strengthening the international human capacity building in this area

Thank you for your attention!

www.isedc-u.com