

The role of the UNECE Group of Experts on Renewable Energy (GERE)

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- The United Nations Economic Commission for Europe (UNECE) is one of five **regional commissions of the United Nations**
- Brings together **56 countries** located in the European Union, non-EU Western and Eastern Europe, South-East Europe and Commonwealth of Independent States (CIS) and North America
- Major aim is **promoting pan-European economic integration**

Sustainable Energy Programme

Areas of Work

- Cleaner Electricity Production
- Coal Mine Methane
- Energy Efficiency
- Gas Centre
- Natural Gas
- Renewable Energy
- UNFC and Resource Classification


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Goal of
Achieving
Sustainable
Energy for
All by 2030

 ENSURING
universal access
TO MODERN ENERGY
SERVICES.

 DOUBLING THE GLOBAL
RATE OF IMPROVEMENT IN
*energy
efficiency.*

 DOUBLING THE SHARE OF
renewable energy
IN THE GLOBAL
ENERGY MIX.

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Process

- GERE established in 2014
- November 2014: 1st GERE session/ Work Plan 2014-2015
- October 2015: 2nd GERE session/ Work Plan 2016-2017

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Partners

- MoU with IRENA, September 2014;
- Cooperation agreement with IEA, October 2014;
- MoU with REN21, November 2014;
- SE4ALL/ UN-Energy/ WB/ FAO/ OTHERS

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Work Plan 2014-2015

- Identification of the state of development of renewable energy sources in the UNECE region
- Identification and support to those communities in the UNECE region that have no access to energy
- Exchange of know-how and best practices in the UNECE region on how to help significantly increase the uptake of renewable energy.

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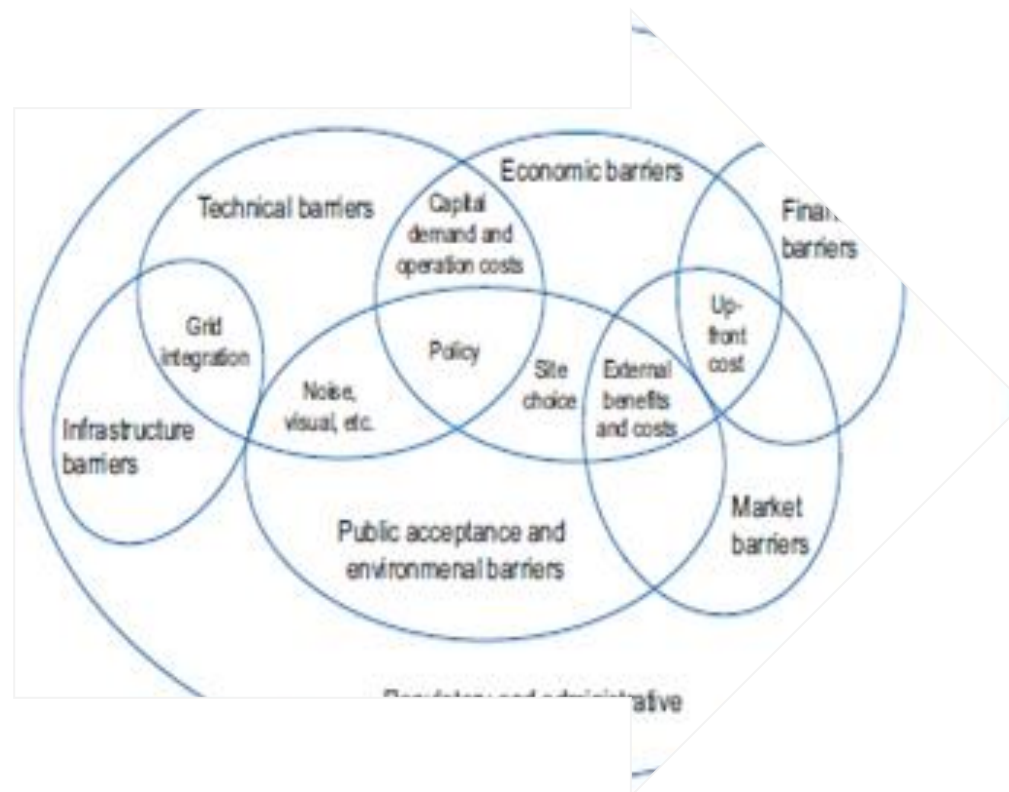
Work Plan 2016-2017

- Tracking of the progress made in the uptake of renewable energy sources in the UNECE region
- Exchange of know-how and best practices in the UNECE region on how to help significantly increase the uptake of renewable energy
- Integration of Renewable Energy in Future Sustainable Energy Systems in the region

Key deliverables in 2014-2015

- Status report in the UNECE region – November 2014 & UNECE Renewable Energy Status Report with REN21 and in cooperation with IEA – December 2015
- Access to energy services in the ECE region (Discussion paper, November 2014); UNECE RE status report: access in all region: quality issue, December 2015
- A Framework For Developing Best Practice Guidelines to Accelerate Renewable Energy Uptake – February 2015
- Menu of Efficient and Economic Technologies and Policies: a Practical Framework for Best Practices and Policies – October 2015

Implementation of RE technology is not happening fast enough



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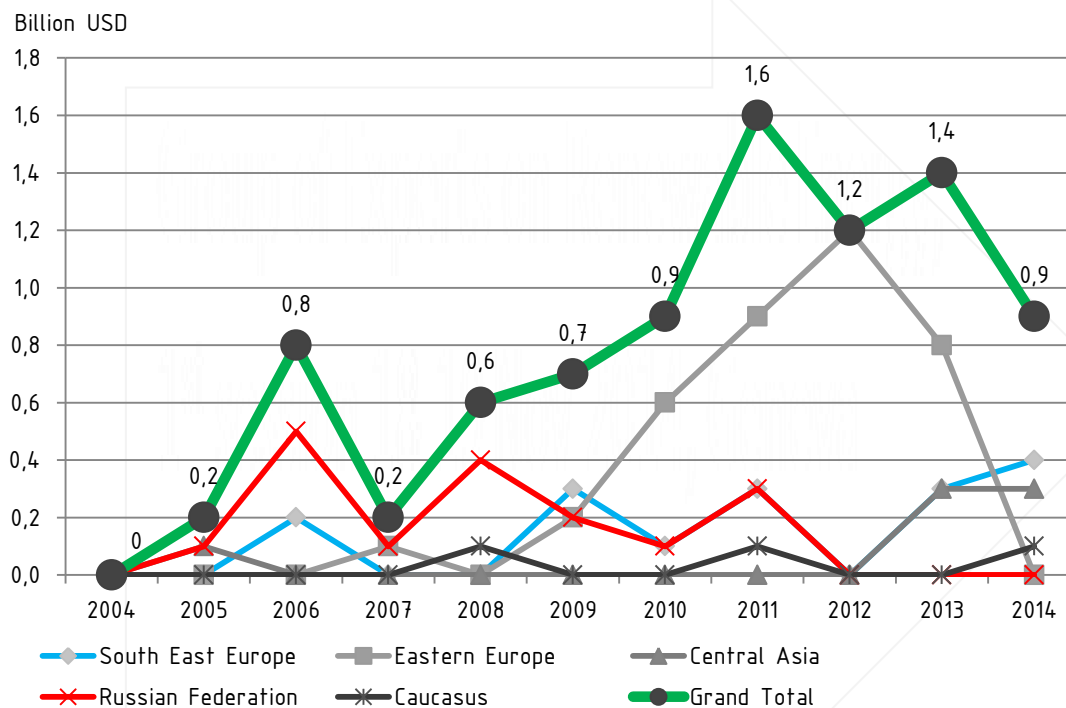
UNECE RE Status
Report shows a
slowdown in RE
investment flow

- over 300 million inhabitants in the selected 17 UNECE countries
- They covered only 0.5% or USD 0.9 billion of global investment activity in 2014.


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Renewable Energy Investment Overview 2004-2014: situation in Russia



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Menu of Renewable Energy (RE) technologies and policies

on how to help
significantly increase the
uptake of renewable
energy.

- A framework for best practices in policies in order to accelerate renewable energy uptake in the UNECE region.
- This tool is meant to support key stakeholders within government, non-governmental, financial and international organizations as well as energy companies and academia.
- The consideration of key elements allow decision makers to facilitate their choice towards RE solutions based on concrete experiences.

Menu of Renewable Energy Technologies/ Specific Policy Instruments

Template with examples from UNECE countries

	Regulatory Mechanisms			Fiscal Incentives & Public Financing		
	Feed-in Tariffs	Net Metering	Public Competitive Tendering (Auctioning)	Capital subsidy/grants/rebates	Investment/production tax credit	Public investments/loans/grants/R&D
Solar	Italy 5th Revision of "Conto Energia" Support Scheme for PV (2012)	United States (California) Net Energy Metering (2013)*	France 500MW Solar Tender (2015)	Israel State subsidy for electricity generation from wind and solar PV (2004)	Austria Investment Subsidy for Solar PV installations -SkWpeak (PV/BIPV 2013) (2013)	Netherlands Support Scheme for Solar Panels (2011)
Hydro	Albania New Tariff Methodology for Small Hydro Plants (2007);	Canada (British Columbia) BC Hydro Net Metering Program**	Serbia Public Tenders for Small Hydropower Plants - EBRD (2015)	Uzbekistan Decree 476 on the development of hydro energy (1995)	Tajikistan Tax exemptions for small hydro plants (1992)	Portugal Promotion of hydro and wind projects (Decree-Law no. 69/2000) (2000);
Wind	Israel FIT for solar PV and wind electricity (2009, amended in 2011)	United States (Minnesota) Cogeneration and Small Scale Production***	France Offshore wind tendering mechanism (2011)	Malta Capital grants for solar and wind (2006, amended in 2009)	Denmark Wind Energy Co-operative Tax Incentive (1997)	Germany KfW Programme Offshore Wind Energy (2011)
Geothermal	Austria Energy "Ökostromverordnung" (feed-in tariffs) (2012)	United States (Virginia) City of Danville Ordinance No. 2010 - 12.04 (Net Metering)	Greece Public Tender to Explore Geothermal Potential on the Samothrace Island (2011)	Switzerland Risk Guarantee Scheme for Geothermal Power Projects (2008);	United States 30% Federal Tax Credit for Geothermal Heat Pumps	Netherlands Guarantee Scheme for Geothermal Energy (2009);
Oceanenergy	Portugal World's First Wave Energy Feed-in Tariff (2010)	United States (Florida) Florida Power and Light Net Metering for Tidal Energy	United Kingdom Offshore Renewables Joint Programme Ocean Energy (2013)	United Kingdom Marine Energy Array Demonstration Fund	Belgium Offshore Domanial Concessions for Wind and Ocean Energy Production (2004)	Portugal Wave Energy Pilot Zone (2008)
Bioenergy	France Renewable Energy FIT: Biomass (2009)	United States (Minnesota) Cogeneration and Small Scale Production	France Bioenergy Tender to Produce 60,000 tons of bioethanol (2006)	Italy Biomethane subsidies (2014)	Cyprus Tax exemptions for biofuels (2005)	Canada NextGen Biofuels Fund (2007)

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On-going Activities
to promote exchange
of RE INFORMATION:
know-how, best
practices and
lessons learned

- Potential of RE in South-East Europe: IRENA: joint project
- Best practices in UNECE countries: DENA (German Energy Agency)
- International Conference on Renewable Energy & GERE III in Azerbaijan on 20-21 October 2016
- Work Plan 2016-2017
- Knowledge based platform on RE policies, barriers and options for technological development – resources are needed for a practical tool/ sharing portal

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More info

- <http://www.unecce.org/energy/se/gere.html>

- Thank you!