

2nd Session of the Group of Experts on Renewable Energy – GERE

Report on the implementation of the Work Plan 2014- 2015 (item 3)

12 October, 2015



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Process

- GERE established in 2014:
- November 2014:
1st GERE session
- Work Plan
2014-2015

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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 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 2014- 2015 – Deliverables on:

Identification of the
state of development
of renewable energy
in the UNECE region

- Status report in the UNECE region based on existing data, November 2014 – data and info gap;
- Key findings from the on-going process with REN21: new data and responses to questionnaire, focus on 17 countries – October 2015 (ECE/ENERGY/2015/8);
- UNECE Renewable Energy Status Report with REN21 and in cooperation with IEA – December 2015.

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Work Plan 2014- 2015 – Deliverables on:

Identification and support to those communities in the UNECE region that have no access to energy

- Discussion Paper on Access to energy services in the ECE region, November 2014: data from GTF 2013 = 9 UNECE countries with no access to electricity
- REN21 – UNECE Renewable Energy Status Report – questionnaire and GTF database 2015 = access to electricity for all UNECE countries
- Outcome: Energy Access in the UNECE region is more an issue of quality of energy access (reliable, affordable and sustainable)

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Work Plan 2014-
2015 –

Deliverables on:

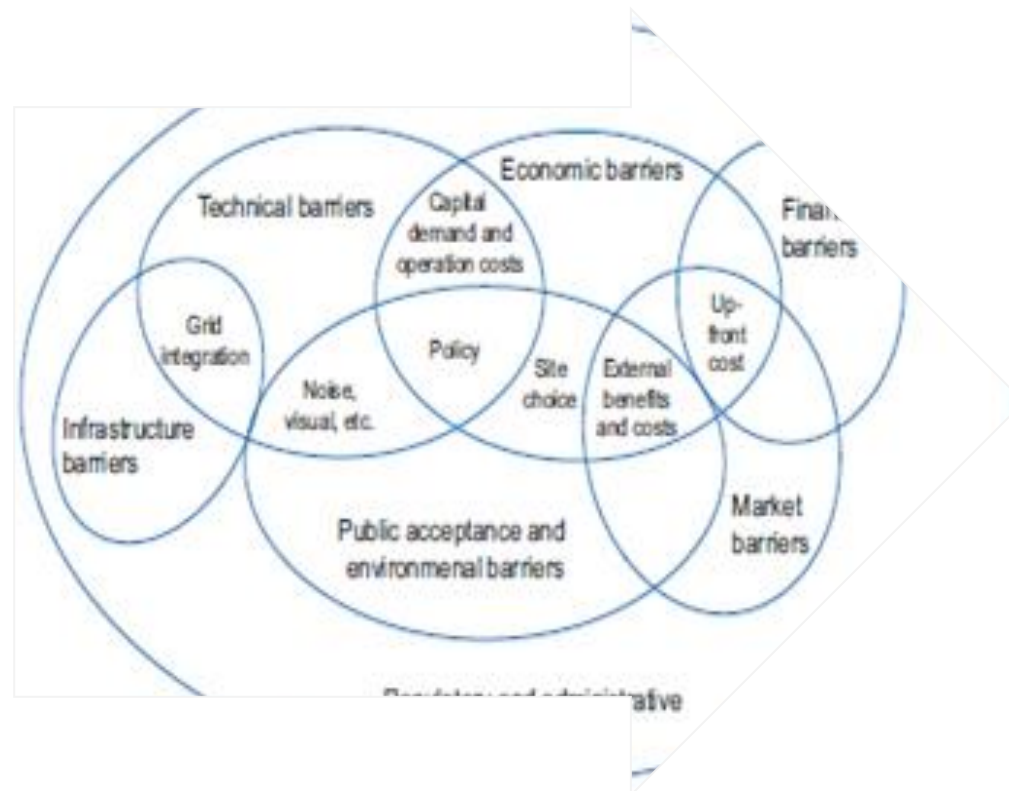
Exchange of know-how and best practices in the UNECE region on how to help significantly increase the uptake of renewable energy.

- Discussion Paper on Discussion Paper 3: A Framework For Developing Best Practice Guidelines to Accelerate Renewable Energy Uptake, November 2014;
- Menu of Efficient and Economic Technologies and Policies in the UNECE Region. Working document as Practical Framework for Best Practices and Policies

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Implementation of
RE technology is
not happening fast
enough



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Menu of technologies and policies

• Main Renewable Energy Technologies

• Solar

- Solar photovoltaic
- Solar thermal

• Geothermal

- Deep geothermal
- Enhanced geothermal systems
- Shallow geothermal

• Wind

- Onshore
- Offshore

• Bioenergy

- Solid biofuels
- Biogases
- Liquid biofuels

• Hydropower

- Micro
- Conventional

• Oceanenergy

- Tidal
- Wave
- Ocean thermal

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 <5kW/peak (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 workshop: more info this morning from Jeff Skeer, IRENA
- Best practices in UNECE countries: DENA (German Energy Agency): more info tomorrow from Oliver Frank, Head of the RE Division, DENA
- International Conference on Renewable Energy in Azerbaijan in 2016
- Work Plan 2016-2017

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More info

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