UNECE Group of Experts on Renewable Energy (GERE)

Gianluca Sambucini, Secretary of GERE

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The Group of Experts on Renewable Energy:
Launched in 2014 as subsidiary body of the Committee on Sustainable Energy

From GERE Work Plan 2016-2017 towards a future direction:

- Ensure reliable data and allow tracking progress in the entire UNECE Region
- Facilitate exchange of know-how, best practices and lessons learned
- Promote consideration of RE within future energy systems
- Support UNECE countries to increase the uptake of RE
- Best Practices and Lessons Learned
- Hard Talks (Georgia and Ukraine, December 2016)
- Matchmaking in Baku (2016) and Astana (2017) – 7th and 8th International Forum on Energy for Sustainable Development
REN21 UNECE Renewable Energy Status Report 2015 & 2017 (June)

- Status of RE in selected 17 UNECE countries
- Building on existing process within GERE
- Established REN21 global data: collection from formal and informal sources
- Objective: reliable data baseline and tracking
- Strong Involvement of key stakeholders
- Key finding: decline of RE investments: Why? What to do?
- Follow-up work in the countries (Hard Talks and Matchmaking)
## Renewable energy share of total primary energy supply (TPES) in the Drina riparian countries, 2014

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Bosnia and Herzegovina</td>
<td>7,824</td>
<td>5,821</td>
<td>2,003</td>
<td>26%</td>
</tr>
<tr>
<td>Montenegro</td>
<td>957</td>
<td>640</td>
<td>316</td>
<td>33%</td>
</tr>
<tr>
<td>Serbia</td>
<td>13,259</td>
<td>11,256</td>
<td>2,003</td>
<td>15%</td>
</tr>
</tbody>
</table>

RE share of TPES in UNECE region: 9%
RE share of TPES in 17 UNECE countries: 3%
REN21 UNECE Renewable Energy Status Report 2017 (June)

RE share of RE in Total Final Energy Consumption in Drina riparian countries:

- Serbia: over 20% TFEC
- Bosnia and Herzegovina – Montenegro: over 40%
Share of Hydro Power in total power generation, 2012

- **SERBIA**: 26.9%
- **BOSNIA AND HERZEGOVINA**: 29.9%
- **MONTENEGRO**: 51.9%
- **ALBANIA**: 100%
- **FYR OF MACEDONIA**: 16.7%
- **UKRAINE**: 5.5%
- **GEORGIA**: 74.5%
- **AZERBAIJAN**: 7.9%
- **KAZAKHSTAN**: 8.4%
- **RUSSIAN FEDERATION**: 15.6%
- **TAJIKISTAN**: 99.6%
- **KYRGYZSTAN**: 93.5%
- **AZERBAIJAN**: 7.9%
- **KAZAKHSTAN**: 8.4%
- **RUSSIAN FEDERATION**: 15.6%
- **TAJIKISTAN**: 99.6%
- **KYRGYZSTAN**: 93.5%

Legend:
- **Below 5%**
- **5-10%**
- **10-25%**
- **25-50%**
- **50-80%**
- **More than 90%**
- **No Information**
## Overview of Renewable Energy Targets in the Drina riparian countries

<table>
<thead>
<tr>
<th>Country</th>
<th>Sector/Technology</th>
<th>RE Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bosnia and Herzegovina</td>
<td>Energy</td>
<td>40% share of renewable energy sources in the gross final energy consumption by 2020</td>
</tr>
<tr>
<td>Montenegro</td>
<td>Energy</td>
<td>33% share of energy from renewable sources in gross final consumption of energy in 2020</td>
</tr>
<tr>
<td></td>
<td>Electricity</td>
<td>51.40% of RE by 2020</td>
</tr>
<tr>
<td></td>
<td>Heating and Cooling</td>
<td>38.20% of RE by 2020</td>
</tr>
<tr>
<td></td>
<td>Transport</td>
<td>10.20% of RE by 2020</td>
</tr>
<tr>
<td>Serbia</td>
<td>Energy</td>
<td>27% share of energy from renewable sources in gross final consumption of energy in 2020</td>
</tr>
<tr>
<td></td>
<td>Electricity</td>
<td>37% share of RE in gross final consumption of energy in 2020</td>
</tr>
<tr>
<td></td>
<td>Heating and Cooling</td>
<td>30% share of RE in gross final consumption of energy in 2020</td>
</tr>
<tr>
<td></td>
<td>Transport</td>
<td>10% share of RE in gross final consumption of energy in 2020</td>
</tr>
</tbody>
</table>
REN21 UNECE Renewable Energy Status Report 2017 (June) in the 17 countries

- Report 2017 shows a slowdown in RE investment flow
- USD 700 million in 2014, global share of 0.5%
- USD 400 million in 2015, less than 0.2% of the global total
- The lack of investment as key barrier to accelerate modernization of energy infrastructure and improve the quality of life.
Renewable Energy Investment in 2004-2014, billion USD

- **Ukraine**: 3.3 billion USD

- **Next 12 countries**
  - Russian Federation: 1.7 billion USD
  - Albania: 0.5 billion USD
  - Belarus: 0.5 billion USD
  - Bosnia and Herzegovina: 0.5 billion USD
  - Serbia: 0.3 billion USD
  - Kyrgyzstan: 0.3 billion USD
  - Uzbekistan: 0.2 billion USD
  - Georgia: 0.2 billion USD
  - Kazakhstan: 0.2 billion USD
  - FYR of Macedonia: 0.2 billion USD
  - Armenia: 0.1 billion USD
  - Montenegro: 0.1 billion USD
ASTANA JUNE 2017

• Ministerial Conference: 11 June

• Forum: 12-14 June

• Matchmaking within the Forum: 13-14 June - best practices and project proposals
Matchmaking Project

• Policy Advice and Dialogue

• Capacity Building

• Project Development Support
More on GERE:
http://www.unece.org/energy/se/gere.html

Thank you!