Follow-up project to the Water-Food-Energy-Ecosystems Nexus Assessment in the Drina River Basin

Session I: Responding to the identified nexus challenges with a new project

Status of Renewable energy in BiH

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Potential of RES in BiH (1)

Hydro:
- Largest potential - Hydro potential (6,000 MW), with approx. 1000 of small, medium and large rivers.
- Utilization level is only 40%
- The total installed capacity of large HPPs is 2,083 MW
- Installed capacity of SHPPs about 85 SHPPs with a total capacity of 135 MW

Wind:
- One WPP Mesihovina, installed capacity of 50.6 MW and annual production of 165 GWh
- Economic potential for developing approx. 900 MW
- 18 locations marked as having good potential
- Estimated wind power potential is 1030–1180 MW with electricity production of 2.4 TWh/year.
Potential of RES in BiH (2)

Solar:
- Potential locations - in the region of Herzegovina and with around 10 500 ha of available surfaces
- Potential installed capacity for PV PP is 4010 MW
- Currently about 160 solar power plants with 18 MW of total installed capacity

Biomass:
- More than 53% of BiH is covered with forests and forest land.
- Significant potential - still mainly used as fuelwood for individual households heating
- Fine forms as pellets and briquettes (around 50 producers in BiH) are mostly exported
- 2 Biomas plants installed capacity 1.250 kW
National Renewable Energy Action Plan of BiH


- It defines the binding target of 40% RES share in total final energy consumption by 2020, and measures and mechanisms to achieve this goal.

- Share of Energy use by Sector:

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<th>Bazno</th>
<th>2014</th>
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<th>2020</th>
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<tbody>
<tr>
<td>OIE-GiH</td>
<td>43,3%</td>
<td>51,4%</td>
<td>51,7%</td>
<td>52,4%</td>
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<tr>
<td>OIE-E</td>
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<td>45,7%</td>
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<td>56,9%</td>
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<td>OIE-T</td>
<td>0,9%</td>
<td>0,6%</td>
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<td>Ukupan udio OIE</td>
<td>34,0%</td>
<td>35,0%</td>
<td>35,8%</td>
<td>40,0%</td>
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• Progress in the construction of a power generation plant from the RES is visible, mostly to the established incentive system, feed-in tariff – FiT,
• About 240 plants with total installed capacity of 106.7 MW
BiH implementation ratio in Renewable Energy

- Secretariat use 23 indicators for monitoring EnCT implementation.
- Overall degree of transposition in BiH 69%.
- Overall degree of implementation in BiH 98%.
Working Group (WG) on RES in BiH

- **Goal:** Exchange of experiences and information in the field of renewable energy and methodological harmonization to fulfill the obligations of the Energy Community Treaty in the area of RES
  - Members: All relevant BiH institutions dealing with RES
  - Technical Assistance: GIZ, USAID, UNDP
  - Structure of WG, including Technical Working Groups (TRGs), based on the requirements of the RE Directive.
Current activities

• Market-Based Support Schemes
  (Reform of the support scheme system in BiH by developing a detailed concept of incentive schemes for electricity generation based on market principles)

• Biomass Potential Mapping
  (Elaboration of a monitoring system for the assessment of the potential from agricultural and forest biomass in BiH including current consumption and unused available potentials)

• Licensing and Permitting Regime
  (Elaboration of proposals for the improvement of the licensing and permitting regime for RES-E in both entities)

• Sustainable Small Hydropower Development
  (Preparation of a Catalogue of criteria for the development of a sustainable SHPP in BiH)
Priority actions

According to the Energy Community Implementation Report the following conclusions and priority activities are defined for BiH:

• Introduce support schemes for renewable energy in compliance with State aid guidelines.

• Revise the legal and regulatory framework for RES in order to ensure the proper transposition of the Directive 2009/28 /EC.

• One of the priorities is improvement of energy statistics, especially in the biomass section
Upcoming obligations


- Objective: To develop a methodology and to carry out a quantitative assessment to present ways of achieving calculated targets for EE, RE and reduction of greenhouse gas emissions by 2030, which can be expected in the Energy Community.
Study on 2030 overall targets –RE

- Proposal: 2030 RE target at EnC Level to be in-line with the increase of the RE ambition at EU level
- Net increase of the RE share from 2020 to 2030 by 10 percentage points appears
Thank you for your attention!

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