

# Gap analysis of the small hydro power sector -BiH-

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Terms of Reference for National Expert

### Terms of Reference for Short-Term Consultant

<b>Short Term Mission:</b>	Support in the Preparation of GAP analyses in the small hydro power sector in BiH
<b>Detailed project number</b>	2015.2100.4
<b>Responsible contact person</b>	Naida Taso
<b>Dates:</b>	October 05 <sup>th</sup> 2016 – November 10 <sup>th</sup> 2016
<b>Dates/No. of man-days:</b>	Up to 20
<b>Name of the Short-term expert:</b>	Drazen Maksimovic
<b>Country:</b>	Bosnia and Herzegovina

## 1. Background

The Federal Republic of Germany and Bosnia and Herzegovina (BiH) have been cooperating in the field of sustainable energy since 2010. Over the last four years, the Energy Efficiency Technical Assistance project has been based on the joint activities of the Ministry of Foreign Trade and Economic Relations BiH (MOFTER) and Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ). In order to assist Bosnia and Herzegovina in its efforts towards making energy supply more sustainable and meeting its obligations under the Energy Community Treaty (EnCT), the German Ministry for Economic Cooperation and Development (BMZ) approved financing a further renewable energy technical assistance project. Funds for the new project have been secured through a special budget of the German Climate Technology Initiative (Deutsche Klima Technologie Initiative – DKTI) and intended for funding a mitigation of greenhouse gas emissions and certain technologies implementation project. The technical assistance project is correlated with the Kreditanstalt für Wiederaufbau (KfW) activities which primarily refer to hydropower and which are funded from the same line of financing.

Promotion of Renewable Energy in BiH project is designed in four areas of intervention towards the creation and strengthening of the framework preconditions for the increased use of renewable energy sources in BiH, which are:

- General framework conditions for renewable energy sector;
- Support schemes and community based approaches to finance RE projects;
- Sustainable small hydro power development;
- Development of the bioenergy and innovative technologies sector.

In order to define the current situation in the small hydro power sector of BiH, a background paper needs to be prepared with a general overview and analysis of relevant legal framework and existing and missing documents which treat small hydro power sector in the state of BiH, the two entities, cantons and municipalities. In addition, all relevant institutions which deal with small hydro power sector should be considered through this analysis, as well as developed projects, project in development phase and planned ones. Furthermore, the data, has to be considered in sense of availability, accuracy, missing data, etc.

In this analysis detail procedure for construction of small hydro power plants (from idea to implementation) should be explained together with all obstacles.

To better visualize current situation in the small hydro power sector, two maps should be conducted:

- assigned concessions;
- implemented projects.

Maps should be accompanied by tables with detailed information (name of the power plant, owner, year of issuing concessions/ putting into operation, location, river, planned/ installed capacity, electric utility that takes over power, etc.).

There will be two local experts involved in the tasks. Expert one will have a coordination role, draft the final report, cover BiH/FBiH and join the working groups when it is necessary, hold the presentation, whilst expert two will assist to the expert one and will cover the RS. The overview report will be jointly developed by the two experts.

This ToR relating to Ms. Andrea Muharemovic as a coordinator for this assignment with responsibilities mentioned above and coordination with Mr. Drazen Maksimovic which will provide all inputs in order to draft a comprehensive report. In addition, Ms. Andrea Muharemovic advice is required during the establishment of a small hydro power working group among the relevant partners in the state of BiH and during the organization of RENEXPO conference and round table on sustainable small hydro power development.

## **2. Objective of Assignment**

The general objective of the assignment is to draft a Gap analysis in the small hydro power sector in BiH.

The detailed objectives are as follows:

1. Provide an institutional overview in the small hydro power sector of BiH
2. Provide a detailed analyses of the legal and regulative framework in the small hydro power sector of BiH
3. Provide a detailed analysis of the existing, missing and planed documents (strategies, studies, analyses, projects, database, etc.) in small hydro power sector in the state of BiH, entities, cantons, municipalities etc.
4. Provide detailed analysis of the procedure for construction of small hydro power plants (from idea to implementation) together with all obstacles

- a) Provide maps of assigned concessions and implemented projects
5. Draft the reports and hold a presentation to GIZ and WG on kick-off-meeting (RENEXPO).

### 3. Job Description

#### **Outcome 1:**

Report section, which analyzes the current institutional framework in the small hydro power sector in BiH: overview of key stakeholders, description of their competences and their implemented and ongoing activities in small hydro power sector on all levels (country, entities, cantons, municipalities). The overview should, where possible, be presented in a graphic format, showing the interdependencies and institutional relations between stakeholders and institutions.

#### **Outcome 2:**

Report section, which analyzes the legal and regulative framework in small hydro power sector in BiH - overview of current legal and regulative framework. Analysis of the existing, missing and planned documents – analysis of small hydro power sector position in the existing strategic and action documents on the different levels; overview and critical analysis of findings of the existing studies related to small hydro power potential, market and barriers; determination of missing documents and recommendation for its drafting including key stakeholders which should be involved.

#### **Outcome 3:**

Report section, which analyzes detail procedure for construction of small hydro power plants (from idea to implementation) with all obstacles. Present it in a table format with detailed analysis.

The small hydro power projects should be presented in a countrywide maps, one with assigned concessions and the other one with implemented projects. Maps should be accompanied by tables with detailed information (name of the power plant, owner, year of issuing concessions/ putting into operation, location, river, planned/ installed capacity, electric utility that takes over power, investment (if possible) etc.).

#### **Outcome 4:**

Overall report (30-40 pages) and power point presentation focusing on identified gaps and recommendations. The report and presentation should include graphs, figures, tables, maps, and other forms of visualization. The quotations and sources have to be marked according to international research standards.

#### 4. Deliverables and time scheduling

The report should incorporate as many figures and graphs as possible and a map overview which should be defined during the analyses with a GIZ contact person for this contract.

The Consultant has to follow the deadlines for submission of deliverables, as follows:

Deliverable	Submission deadline	Submitted to:
Concept preparation, table of content and presentation to GIZ responsible contact person for this assignment	10 <sup>th</sup> October 2016	GIZ Local & English language version
Internal meeting with GIZ responsible contact person for this assignment	Every week after contract signing	GIZ
Draft report	20 <sup>th</sup> October 2016	GIZ Local language version
Final report	30 <sup>th</sup> October 2016	GIZ Local language version
Presentation	5 <sup>th</sup> November 2016	GIZ
Presentation on RENEXPO	10 <sup>th</sup> November 2016	RENEXPO round table

#### 5. Personnel requirements

The Consultant can be an individual expert from Bosnia and Herzegovina with the following skills and qualifications:

- To have minimum 5 years' experience in small hydropower sector;
- To have national and international experience related to small hydropower policy and legislation/regulation development and implementation;
- To be familiar with national and European Union's legislative framework for energy and small hydropower sector;
- Be familiar with the regional and EU-accession related policies and context for energy and small hydropower sector;
- To have good understanding of and established communication with key stakeholders in country's energy and small hydropower sector;
- To be familiar with national and European Union's studies and analyses in small hydropower sector;
- To have experience in drafting small hydropower studies, analyses;
- To possess good analytical and communication skills;
- To have excellent writing and communication skills in Local language and English;
- To have excellent computer skills and experience in presentation techniques;
- To have excellent organizational and time management skills.