



2014

Project Implementation Review (PIR)

of

**PIMS 3880**



*Empowered lives.  
Resilient nations.*

**Bosnia and Herzegovina Biomass Energy for Employment and Energy Security Project**

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## A. Basic Project and Finance Data

Executing Agency:	UNDP
GEF Focal Area:	Climate Change - Mitigation
Country(ies)	(BIH) Bosnia
Project Start Date:	21-Oct-2009
Planned Project Closing Date:	31-Dec-2014
Revised Planned Closing Date:	31-Dec-2014
Dates of Project Steering Committee/Board meetings during reporting period:	October 2013 March 2014
Overall Risk rating	
Overall DO rating	
Overall IP rating	
GEF grant amount disbursed so far	\$ 805,048.05

## B. Project Summary

Bosnia and Herzegovina is very well endowed with biomass energy resources, and the rural population is highly dependent on wood (particularly in the form of firewood), still information related to the biomass energy sector was extremely scarce in past.

Heating in schools and municipal buildings is dominated by oil and diesel (77%), and electric heating as the main source of heat is significant (21%). Power prices are rapidly increasing in BiH, and this creates an opportunity for biomass to be a least cost heating alternative.

Despite the large potential for biomass energy, a number of interrelated market barriers combine to restrict the self-sustaining growth of this market. During project preparation, and in consultation with a wide range of stakeholders, the following barriers were identified:

- Low Availability of financing,
- Lack of Business models and management skills,
- Low Awareness

The key project objective is the reduction of CO2 equivalent emissions by an accumulated total of 80,000 tones over 15 years, by installing or retrofitting biomass boilers – targeting the education sector (primary schools) in the three municipalities of Srebrenica region (Srebrenica, Bratunac, Miliæi).

These activities aim at the creation of sustainable markets for biomass energy. Domestic benefits include job creation, reduced emissions, and improved quality of heating.

The proposed project will enhance local experience and awareness of biomass energy providing a firm foundation for these issues to be addressed in the context of larger initiatives to address energy, forest and business policies and legislation.

This project will aim at removing market barriers to the adoption of sustainable biomass energy services in rural areas of Bosnia and Herzegovina through market transformation, enhancing job creation, community poverty reduction and local energy security.

## C. Project Evaluation

## D. Adjustments

Project Planning				
Key project milestone	Status	Original Planned Date (Month/Year)	Actual or Expected Date (Month/Year)	Comments, including reasons for delays and their implications
Inception Workshop	delayed/completed	-	-	Completed
Mid-term Review	delayed/completed	-	-	Completed
Terminal Evaluation	on schedule	December - 2013	December - 2014	The approval of the delay has been received in the past reporting period

Critical Risk Management	
Critical Risks Type(s)	2014
Financial	<p>Risk: The project budget planned installation of biomass boilers of very low power. The boiler power will be increased, so as to provide appropriate heating temperature. Due to this, the costs will be increased and lower number of schools will be included.</p> <p>As described in other PIR sections, the financial risks are mostly associated with the Outcome 1 of the project; impacting the first indicator related to number of schools where biomass boiler installations are to be conducted (or are already implemented). The risk is also related to the significant USD decline (in comparison to BAM) which has made major impact on the project funds, lowering the budget for almost one third than initially planned. This has caused lack of financial resources for implementation of technology installation. The risk management which was undertaken for this reporting period was reflected in the mutual efforts of the Project Management Unit, Steering committee and the country office, who have made efforts to secure additional co-financing and involve more potential donors who would be interested in these activities. These efforts have brought positive results in terms of securing co-financing from local partners (e.g. municipalities or Cantonal authorities or Funds for Environmental Protection), from other UNDP projects or from other donors (such as the Czech Embassy in BiH). This has brought additional co-financing in the range of approximately 400 000 USD and replication in other B&amp;H areas and public buildings.</p>

### General comments:

Delays have occurred in reaching key project milestones, however not in this reporting period. all delays and adjustments have been timely communicated and approved with the RTA and other steering committee/government parties and reported in previous PIRs.

## E. Progress toward Development Objective

Description	Description of Indicator	Baseline Level	Target Level at end of project	Level at 30 June 2009	Level at 30 June 2010	Level at 30 June 2011	Level at 30 June 2012	Level at 30 June 2013	Level at 30 June 2014
<p>The overall project goal is a sustainable reduction of GHG emissions through a transformation of the biomass energy market in Bosnia &amp; Herzegovina.</p> <p>The key project objective is the reduction of CO2 emissions by an accumulated total of 80,000 tonnes over 15 years, by installing or retrofitting biomass boilers. Project activities aim at the creation of a sustainable market for biomass energy. Domestic benefits include job creation, community poverty alleviation and improved quality of heating.</p>	<p>Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies participating</p>	0	10		<p>Due to the fact that the project is currently in its initiation phase, no heating systems have yet been installed. The installations are planned in the later stages of the project, after initial supply/demand assessments, technical specification analysis and similar baseline research. The contracting procedure for the consultants selected to carry out initial surveys on biomass supply and demand, in addition to the heating systems assessments, will be completed in July. The activities relating data</p>		<p>1. Currently there is one school with an installed biomass heating system. Even though the purchase and installation of biomass boilers for the school in Skelani was not financed by the project, the decision to choose the biomass heating system was greatly influenced by the project due to the fact that this school was included as a project beneficiary. The old boiler that the school was using broke down unexpectedly and the school chose the biomass heating option.</p> <p>However, the project did hire a consultant to prepare a ToR for a detailed project design for 6 schools (3 – 1st phase + 3 – 2nd phase). Based on that</p>	<p>3. One boiler was installed last year, as explained in the previous column. Two additional boilers are currently well into the construction phase. Design projects have been developed for 6 further schools. Further tenders will be announced after the current two installations.</p>	<p>5+4</p> <p>Currently there are four schools with finalized installations and one public services building (Komunalno Milici). Apart from this, there are currently project installations in pipeline, but which are replicated to other regions of Bosnia and Herzegovina. These include Cantonal hospital Bihac (with financing from the Czech Republic) as well as potential 4-5 school installations within the current emergency response related to flooding in BiH. All of these additional replications are facilitated by the project, but financed from other sources, concerning that the</p>

					<p>collection and evaluation will commence in late August and the initial results of the field research are expected by mid-September, 2010.</p>	<p>ToR, the project issued a tender for a detailed project design for installation of biomass boilers and construction of storage facilities in 3 elementary schools in Srebrenica region (1st phase). It is planned that work should take place during the summer break 2012. As per legal requirements, the project documentation has undergone revision by two auditors hired by the project.</p> <p>The project also issued a tender for a detailed project design (2nd phase) for installation of biomass boilers and construction of storage facilities in 3 additional schools in Srebrenica region; this is now in the final stages of the tendering procedure.</p> <p>Currently, because the boiler installations</p>	<p>project budget does not cover the targeted number of buildings (schools).</p>
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							have not yet taken place, the only direct emission reductions achieved by the project relate to the cleaning of school heating systems. The emission reduction associated with this cleaning is estimated as being 29 tonnes of CO2 reductions per year.		
Market demand for biomass energy is increased	Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies participating	0	10		Due to the fact that the project is currently in its initiation phase, no heating systems have yet been installed. The installations are planned in the later stages of the project, after initial supply/demand assessments, technical specification analysis and similar baseline research. The contracting procedure for the consultants selected to carry out initial surveys on biomass supply and demand, in		1. Currently, there is one school with an installed biomass heating system (briquette boiler). The school's boiler was not financed by the project (but by the Srebrenica UNDP Office); however, the project contributed greatly to the selection of this heating system. This shows that capacities in B&H have been raised with regard to design, installation and operation of modern energy services.  Additionally, the recently formed and registered Biomass Association (which was	3. One boiler was installed last year, as explained in the previous column. Two additional boilers are currently well into the construction phase. Design projects have been developed for 6 further schools. Further tenders will be announced after the current two installations.	5+4  Currently there are four schools with finalized installations and one public services building (Komunalno Milici). Apart from this, there are currently project installations in pipeline, but which are replicated to other regions of Bosnia and Herzegovina. These include Cantonal hospital Bihac (with financing from the Czech Republic) as well as potential 4-5 school installations within the current emergency response related to flooding in BiH. All of these

					<p>addition to the heating systems assessments, will be completed in July. The activities relating data collection and evaluation will commence in late August and the initial results of the field research are expected by mid-September, 2010.</p>	<p>founded because of the direct support of the project) has brought together entrepreneurs and private members who are currently in some way involved in the chain of new energy (biomass) systems. However, it has been noted that counterparts are mostly involved in the pellet or briquette business, whereas wood chip supply or production is usually concentrated only on private use (e.g. a company producing furniture uses left over wood-chips for heating its factory). This goes hand in hand with the MTE (mid-term evaluation) auditor's recommendation to embrace the use of pellets or briquettes at least for the first year when the boilers are installed, due to lack of wood chip supply in the region.</p> <p>The project has, additionally and in</p>	<p>additional replications are facilitated by the project, but financed from other sources, concerning that the project budget does not cover the targeted number of buildings (schools). It is important to mention that the remaining 5 main project designs for 3 schools in Srebrenica region are in the ownership of the schools and the project is promoting further potential public-private-partnership with interested investors, who have shown interest in investing into the technology schools in the schools.</p>
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						<p>cooperation with the UNDP Srebrenica office (SRRP), organized cleaning and servicing of heating systems in elementary schools. 10 schools have undergone cleaning of the radiators which resulted in CO2 emission reductions by 29 tonnes per year and significantly increased heating capacities and efficiency.</p> <p>The project has also hired a consultant to prepare a ToR for a detailed project design for 6 schools (3 – 1st phase + 3 – 2nd phase). Based on that ToR, the project issued a tender for a detailed project design for installation of biomass boilers and construction of storage facilities in 3 elementary schools in Srebrenica region (1st phase). It is planned that work should take place during the summer break 2012. As per legal</p>	
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						<p>requirements, the project documentation has undergone revision by two auditors hired by the project.</p> <p>The project also issued a tender for a detailed project design (2nd phase) for installation of biomass boilers and construction of storage facilities in 3 additional schools in Srebrenica region; this is now in the final stages of the tendering procedure. (Concerning the fact that the tenders issued are for wood-chips powered boilers, the end of the tendering procedure will show the capacities and development in this area).</p>		
	Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies	0	2		Due to the fact that the project is currently in its initiation phase, no business models have yet been designed or replicated. Once the activities	<p>2 contracts signed for provision of heating services in the Federation of B&amp;H.</p> <p>Due to the law on public procurement of Republika Srpska and other legal obstacles,</p>	The situation remains very similar to that of last year, as described in the previous column. A growing number of contracts are being signed for provision of heating services in the	<p>Minimum 2 contracts.</p> <p>The target has been surpassed in previous reporting periods. The wood processing companies show interest in wood</p>

	participating				relating to the baselines of supply/demand and procurement are completed, the business models developed will be promoted through a set of promotional activities (throughout B&H and its relevant authorities) that will in the long-run enable the replication of the contracting models.		the contracting models are coordinated by the legal entities in ownership of the heating systems (the schools and the Ministry of Education). However, the business model has attracted considerable stakeholder interest and engagement due to the promotional activities undertaken by the project, and the concept has already been included in other projects/programmes of UNDP across the country. Biomass heating systems have already been installed in 4 buildings in the Federation of B&H, with more being planned for public buildings in several other regions, along with implementation of energy efficiency measures. It is expected that the entire implementation process will be completed by the end of the project.	Federation of B&H.  Due to the law on public procurement of Republika Srpska and other legal obstacles, the contracting models are coordinated by the legal entities in ownership of the heating systems (the schools and the Ministry of Education). However, the business model has attracted considerable stakeholder interest and engagement due to the promotional activities undertaken by the project, and the concept has already been included in other UNDP projects/programmes across the country.	supply (mainly the State forestry company and private companies-suppliers). A pellet factory has been opened in the project region. A growing number of contracts are being signed for provision of heating services on daily basis. The business model has attracted considerable stakeholder interest and engagement due to the promotional activities undertaken by the project, while replicating the concept through other UNDP projects..In cooperation with the Czech experts, prepared were descriptions of business models for heat service contract, that contain descriptions of business models used in European Union countries as well as review of existing business models in Bosnia and Herzegovina.
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	Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies participating	0	10			<p>Preliminary contacts with the relevant Ministries, Municipalities, private sector and primary schools have been established. Their interest in the project has been confirmed and will be amplified through a set of targeted awareness raising activities that will in the long run enable the development of new small-scale projects. Currently, the consultants are being contracted to undergo a comprehensive assessment of the heating systems (needed power specifications) within the schools in order to be able to initiate the design-procurement procedure.</p>	<p>6. A tender for purchase and installation of biomass boilers and construction of storage space for 3 elementary schools in Srebrenica region (phase 1) has been published. Detailed project designs for phase 1 were prepared by a team of experts and reviewed by two audit consultants. Contracting and construction work on the biomass heating systems from phase 1 is expected to take place during this summer, with a completion date prior to the start of the heating season assuming the tender to purchase woodchips is successful.</p> <p>Detailed project designs are being prepared for the second phase (additional 3 schools).</p>	<p>6 school engineering project designs have been finalized. 2 school boiler installations and storage room constructions are underway.</p> <p>6+4+1</p> <p>6 school engineering designs completed and 1 main design for a Cantonal hospital Gorazde</p> <p>4 schools with finalized installations and 1 public services building (Komunalno Milici). Apart from this, there are currently project installations in pipeline, but which are replicated to other regions of Bosnia and Herzegovina. These include Cantonal hospital Bihac (with financing from the Czech Republic) as well as potential 4-5 school installations within the current emergency response related to flooding in BiH. Generally speaking, target has been surpassed (not necessarily for the project area, however a choice of out-of-project-area installations have been made based on secured funding from</p>
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									the other sources..
Sustainable biomass fuel supply markets strengthened and expanded	Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies participating	0	250 tonnes		250 tonnes certified, but not yet delivered to boilers. Upon installation of the boilers, the biomass wood supply will be calculated.		Given that the boiler installation has not been completed at time of reporting, there is no reporting on wood supply to the boilers. Even though there are no functional boilers purchased and installed through this project, 2.7 tonnes of biomass briquettes were used for a biomass boiler installed in an elementary school in Skelani. Additionally, for the initial 3 boiler installations the amount of wood supply needed for heating is 660 tonnes.	2.7 tonnes of biomass briquettes were reported as used for the biomass boiler installed by the project in an elementary school in Skelani. Additionally, for the initial 3 boiler installations the amount of wood supply needed for heating is 660 tonnes.	As stated in previous reporting periods, approximated amounts for the executed installations are indicated at around 660 tonnes. As per current installations, ones in the pipeline and other replicated projects in out-of-project areas, the target for this indicator have been well surpassed.
	Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies participating	0	0.5		Since no baselines have been set, the survey on awareness will include the consumer confidence results. The company selected for carrying out the awareness survey will be contracted by mid-August 2010. The initial results are		A company was selected to conduct awareness-raising activities, which included awareness surveys and knowledge-raising of each of the targeted groups as defined in the methodology (pre- and post-testing). Based on the reports received, an average 30% knowledge increase was noted	Targeted numbers have been reached in the 2011/2012 period as follows: A company was selected to conduct awareness-raising activities, which included awareness surveys and knowledge-raising of each of the targeted groups as defined in the methodology (pre- and post-testing). Based on the reports	As indicated in the previous reporting periods. the targeted numbers have been reached in the 2011/2012 period as follows: A company was selected to conduct awareness-raising activities, which included awareness surveys and knowledge-raising of each of the targeted groups as

					<p>expected by September and the final report is due in October. Once the awareness baselines are clearly set and confirmed, the project implementation activities will be directed and designed according to the previously set indicators.</p>	<p>among participants of the workshop (34 questionnaires were completed).</p> <p>With regard to participants of the project-led high school competition (which included 23 high schools from the entire territory of B&amp;H and 170 participants), an average 20% knowledge increase was recorded based on the 340 surveys completed.</p>	<p>received, an average 30% knowledge increase was noted among participants of the workshop (34 questionnaires were completed).</p> <p>With regard to participants of the project-led high school competition (which included 23 high schools from the entire territory of B&amp;H and 170 participants), an average 20% knowledge increase was recorded based on the 340 surveys completed.</p>	<p>defined in the methodology (pre- and post-testing). Based on the reports received, an average 30% knowledge increase was noted among participants of the workshop (34 questionnaires were completed). With regard to participants of the project-led high school competition (which included 23 high schools from the entire territory of B&amp;H and 170 participants), an average 20% knowledge increase was recorded based on the 340 surveys completed. Concerning additional awareness and advocacy activities which have been parallel to GEF Biomass project fuel-switch installations, as well as every-day raising new interest in the biomass market in Bosnia and Herzegovina (as well as activities of the Biomass Association, government</p>
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									institutions and other bilateral donors), it is clear that enormous awareness has been raised in the sector of wood biomass in the country, on behalf of the GEF project.
	Competition in fuel supply for the 10 biomass boilers exists, signified by supply offers covering 150% of needs	0 boilers	10 boilers		Preliminary contacts with private and public forestry sector organisations have been established. Their interest in the project has been confirmed through their participation at the Inception Workshop, and will be amplified through a set of targeted awareness and knowledge-building activities. Once the awareness-raising activities (i.e. study tour on best B&H biomass experiences) are completed the positive attitude created will be further directed towards the		14. During this reporting period, the project has initiated activities on establishing the Biomass Association. All stakeholders involved (or potentially involved) in the biomass sector were invited to participate in the preliminary workshop. 43 representatives from companies and institutions participated. Following the preliminary workshop, an Inaugural Assembly was held in December 2011.  The First Assembly of the Association was held in June 2012. 20 representatives from 14 companies and 1	During the reporting period, the project has been in contact with members of the Biomass Association in order to create a competitive environment with regard to supply of biomass fuelstocks. The project also maintains a registry of potential suppliers, to whom the procurement notice for fuel was sent prior to the current 2 boiler installations. This served to create competition for fuel (briquette) supply.	6+4+1 boiler installations. Targeted numbers of potential suppliers have been established. There is a database of potential fuel suppliers, and activities in relation to this segment are taken over by the institutions/schools themselves. The school committees have been trained on aspects for which they need to specify in their fuel supply advertisements, therefore fuel supplies are sought by the institutions themselves; and this has proven to be successful and sustainable option. Companies related to supply of wood biomass in the region

					establishment of the sustainable biomass supply. Additionally, the biomass supply/demand analysis (to be contracted in August 2010) will show a detailed overview of the supply potential.		individual participated in the Assembly.  The goal is to create a local biomass energy association, bringing together stakeholders from the forestry, wood-processing, fuel supply, biomass processing equipment, combustion equipment and service industries. The main Association objective is to secure the best legislative and regulatory framework for expanding biomass use and production in B&H.		have increased in line with the growing interest for the renewable energy.
	Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies participating	0	2				Since there are currently no local producers of wood chips, the interest of companies from other areas is not very high due to the fact that transport over great distances is not feasible.  The founding of the Biomass Association will most probably have a positive effect	Given that the targeted wood-chip activities transpired not to be viable, the project turned to briquettes. The procurement notice for briquette fuel has been sent (by school administrations) to several companies prior to installations and feedback has been positive – in the sense that fuel supply agreements are	The fuel supply agreements have been secured for the installations which have been completed. The interest for the fuel supply has increased over time and justified the many awareness raising activities!. Currently, apart from local suppliers of briquettes, a pellet factory has opened in

							in this segment.	assured.	the town of Bratunac, which creates a potential for new public and private fuel-switch activities (and creates market).
Policy makers, financial sector, fuel and technology suppliers and niche markets are convinced of benefits and market opportunities for biomass energy	Survey shows high level of awareness, including use of project outputs, and increased capacities. "Biomass energy awareness and capacity score" tripled in project area (see Output 3.3)	0 There are no baseline surveys conducted. There is a lack of awareness of modern options for biomass energy. Knowledge of, for example, the fact that life-cycle costs of biomass energy technologies are often competitive or even lowest cost options is mostly absent.	3		Due to the fact that the project is currently in its initiation phase, there has been only a limited increase in awareness to date. At this stage the contracting for conducting baseline surveys of capacities and awareness are underway. By the end of 2010 the baseline data in these segments will be established, permitting improvement overview surveys to be conducted at the mid-term of the project and at the project's final stage.		The project finalized a promotional campaign, which was the first and only (so far) biomass campaign ever held in Bosnia & Herzegovina. The campaign included several activities: a school competition, workshops, street actions, distribution of promotional material, etc.  All high schools from B&H were invited to participate in the competition. 57 schools expressed interest to participate in the competition, while 37 schools submitted their work.  An average 30% knowledge increase was shown in surveys completed at the workshop held with 17 participants and 34	The targeted level has been reached. Pre- and post-testing has shown knowledge increases ranging between 20-30%.	3+  The targeted level have been surpassed in the previous reporting periods. The pre- and post-testing has shown knowledge increases ranging between 20% and 30%.



							<p>questionnaires.</p> <p>23 schools participated in the survey with 170 participants and 340 surveys completed. Knowledge measured through questionnaires and surveys showed an average 20% increase in knowledge of biomass-related issues.</p> <p>Local communities and media have shown great interest in this competition and the campaign in general.</p>		
	Wood-processing companies in the project area show real interest in wood fuel supply to local markets, with MOUs covering 200% of fuel required by demonstration projects, with at least 5 companies participating	0	2		Due to the fact that the project is currently in its initiation phase, there has been only a limited increase in awareness to date. At this stage the contracting for conducting baseline surveys of capacities and awareness are underway. By the end of 2010 the baseline data in these segments will be established,		<p>Awareness surveys were conducted by a consultant company as part of the promotional campaign. An average 30% increase in knowledge was shown in surveys completed at the workshop held with 17 participants and 34 questionnaires.</p> <p>3 schools participated in the survey with 170 participants and 340 surveys completed. Knowledge measured through</p>	<p>The target levels were reached in the previous reporting period - therefore, this year\'s data is the same as for last year:</p> <p>- Awareness surveys were conducted by a consultant company as part of the promotional campaign. An average 30% increase in knowledge was shown in surveys completed at the workshop held</p>	<p>The target levels were reached in the previous reporting period - therefore, this year\'s data is the same as for last year:</p> <p>- Awareness surveys were conducted by a consultant company as part of the promotional campaign. An average 30% increase in knowledge was shown in surveys</p>

					<p>permitting improvement overview surveys to be conducted at the mid-term of the project and at the project's final stage.</p>		<p>questionnaires and surveys showed an average 20% increase in knowledge of biomass-related issues.</p>	<p>with 17 participants and 34 questionnaires.</p> <p>- 3 schools participated in the survey with 170 participants and 340 surveys completed. Knowledge measured through questionnaires and surveys showed an average 20% increase in knowledge of biomass-related issues.</p>	<p>completed at the workshop held with 17 participants and 34 questionnaires.</p> <p>- 3 schools participated in the survey with 170 participants and 340 surveys completed. Knowledge measured through questionnaires and surveys showed an average 20% increase in knowledge of biomass-related issues</p> <p>However, apart from the indicator targets which were already achieved in the previous reporting periods, an increase in the awareness related to wood biomass and renewable energy has been significantly noted. Proof of this is several approaches from external stakeholders, be it foreign investors - private companies,</p>
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										bi-lateral donors or local private/public interest groups, who have asked for facilitation of different biomass activities within the GEF biomass project, have secured funding for some activities and needed support or have asked for project ideas in this thematic area.
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## F. Progress in Implementation

Outcome 1	Market demand for biomass energy is increased
<p>Outputs Reported -Two school installations (biomass boilers) in the last quarter of 2013 and currently a new installation in process.</p> <p>-At least three project replications in out-of-project areas:</p> <p>-main project design for biomass boiler installation in general hospital in Gorazde completed with financing from the Fund for Environmental protection FBiH and facilitated by the GEF project) and partial additional coo-financing secured for the actual implementation.</p> <p>-in cooperation with the Czech Republic a Memorandum of Understanding signed for financing (approximately 1 million dollars) the fuel-switch (biomass boiler installation) project for the general hospital in Bihac</p> <p>-Main project designs financed and finalized/prepared for 5 schools in the project region</p> <p>-For the purpose of promoting and creating additional market demand (and awareness) the conference - “Biomass – Fuel of the Future“ was organized by the GEF Biomass project and with the support of the Ministry of Foreign Affairs of the Czech Republic. The conference goal was to promote the use of biomass in B&amp;H and to bring together stakeholders from different professional areas (wood processing, forestry sector, mechanical engineering sector, decision makers, public forest companies and potential investors) to share examples of the good practices, communicate results of the current activities, brainstorm on required follow up activities, etc. The conference was one-of-a-kind event which brought together stakeholders of the wood-processing industry, decision makers, public forest enterprises, economic sector, public environment institutions, Czech experts among others, as well as potential investors. The conference was attended by more than 70 participants.</p> <p>This conference was unique opportunity for networking between stakeholders from multi-disciplinary backgrounds and information exchange.</p>	
Outcome 2	Sustainable biomass fuel supply markets strengthened and expanded
<p>Outputs Reported -The project has greatly influenced the wood biomass market of the Srebrenica (project) region, resulting in a large international (Dutch) investment into a pallet factory (ensuring local wood waste is used, bringing opportunities for direct supply of wood biomass in the region with appropriate local prices, generating local employment opportunities)</p> <p>-Through additional co-financing partners and other UNDP projects, wood biomass has been promoted and replicated. Through this component, assistance has been provided to the regional Drvar office (UNDP) in relation to forest certification and plans have been made for the next year biomass supply markets potentials analysis in the Forest Enterprise of HB Forests. Additionally, currently in design is the potential biomass analysis study for the Forestry Enterprise USK (Unsko Sanske Sume). Both of these are closely related to sustainable forest management, forest certification (FSC-Forest Stewardship Council) and creation of strong supply markets in the specific B&amp;H regions</p>	
Outcome 3	Policy makers, financial sector, fuel and technology suppliers and niche markets are convinced of benefits and market opportunities for biomass energy
<p>Outputs Reported -The knowledge transfer has been received in cooperation with the Czech Republic coo-financing. Within this knowledge transfer two reports have been compiled for the policy and financial sector : a) Identification of key stakeholders and design of Measurement-Reporting-Verification (MRV) system and b) Development of business models for heat service contracting. These reports have been significant, especially for their recommendations for further activities and approach models. Within these activities, following outputs were created:</p> <ol style="list-style-type: none"> <li>1. market research and summary of results on heat services contracts in a way of development of standardized format for contracts in accordance with existing laws and regulations, which can be applied in Bosnia and Herzegovina.</li> <li>2. review existing business models for heat providing services and develop model/s that attract cost effective biomass energy investments which could be applied in Bosnia and Herzegovina taking into consideration Public Procurement Law in Bosnia and Herzegovina and with review of Private Public Partnership possibilities within this sector.</li> <li>3. prepare case study reports for dissemination to business and policy communities.</li> </ol> <p>– Additionally identification of key stakeholders and provision of proposal and design of the Measurement-Reporting and Verification (MRV) system for biomass heating conversions in Bosnia and Herzegovina has been compiled</p>	

General comments:

G. Ratings and Comments on Project Progress

Progress toward Development Objectives	
Project Manager/Coordinator	Satisfactory
<p>It is important to note that this is the last project implementation year and the project's implementation closure is planned for end of December 2014. The Development Objectives rating is marked as Satisfactory. The justification of the rating lies in many reasons, as follows:</p> <ul style="list-style-type: none"> <li>-All of the targeted indicators have been met or surpassed (including the awareness raising targets, advocacy, private sector business models, replication, etc.)</li> <li>-Only Outcome 1 targeted number of boiler installations has not been fully achieved due to very logic and justifiable reasons, mainly related to financial aspects. The budgeted portion related to biomass boilers installations has been very low, while the on-the-ground assessments (main project designs) have proven much higher costs for boiler installations and storage room construction works. Due to this 4 major schools have had boiler installations (out of 10 planned) while other buildings (fuel switch) were chosen based on the coo-financing (or pure financing) received from other donors, who had selected buildings which were either not necessarily schools, or not necessarily in the project area (this includes biomass boiler installation in Communal municipal building, General hospital Bihac, General hospital Gorazde, kindergarten in Bosanska Krupa etc.) If above criteria taken into consideration, the target number of buildings is fulfilled.</li> </ul> <p>Negative trend in this reporting period has been the actual lack of financing (limited budget) which is actually the only negative aspect throughout the whole reporting period. However positive trend is that partial lack of financing has been solved through vigorous search for funding, lobbying and awareness rising.</p> <p>Critical risk during this last reporting period has been the lack of funding for implementation of all planed project activities (activities have been under-budgeted in the Project Document). All of these risks have been noted and adaptive management strategies have been applied.</p>	
UNDP Country Office Programme Officer	Satisfactory
<p>This reporting period has brought progress and sublimation of success on many levels of project activity implementation. Therefore the rating for this reporting period is marked as Satisfactory and in agreement with the reporting and grading of the Project Manager. The project has achieved almost all of its expected outcomes and targets. Concerning that his is the final project implementation year the following targets have been met or exceeded:</p> <ul style="list-style-type: none"> <li>-Business model replicated in more than 2 other regions</li> <li>-sustainably sourced biomass fuelwood supplied to project boilers at competitive price</li> <li>-Perceptions of fuel supply risk reduced</li> <li>-Biomass energy awareness and capacity score highly increased</li> </ul> <p>Additionally, concerning the financial constrains (limitations of the budget which was lower than needed for achievement of the targeted numbers) the boiler instalations have also been larger than could have been covered by the budget itself. Much of the additional coo-financing was secured and further installations (out of project area) implemented. The lower number of installations could be regarded as the negative trend, but closely aligned with the critical risk (financial) which has been noted and dealt with since the first year of project implementation.</p> <p>The co-financing component has brought fulfillment of the sustainability of the project through actual gain of new partners, new potential project proposals and new investments into the biomass sector.</p>	

Positive trend has been the segment related to advocacy, raising awareness, capacity building and true impacts on the field. The biomass has truly become an important topic of the Bosnia and Herzegovina policy making agenda, thus another project treating specifically policy gaps and further alignment with EU regulations and legal framework is in the pipe-line with the project partners (academia and bi-lateral donors).

Project Implementing Partner	
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GEF Operational Focal point	Satisfactory
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Project development impact during the previous reporting period is rated as Satisfactory (S). The rating is in line with the reached targets related to the set project indicators. The project has exceeded all of the targets set. Only the boiler installation number target has not been fully reached, simply and solely because of financial reasons. The projected installations in the Project Document were not realistic to the market prices and sizes of boilers needed. All of these risks and barriers have been timely indicated in the inception report, mid-term evaluation and through project board (steering committee) consultations. Additionally, the project has yet again secured at least \$50,000 additional co-financing support through the Srebrenica Regional Recovery Programme (SRRP) and Bratunac municipality, for fuel-switch installation in primary school of the relevant municipality.

As per other development targets, project has succeeded to meet them in timely and visible manner, as per previous GEF OFP ratings (in previous years)

Additionally, it is important to emphasize that the project has succeeded in replicating fuel-switch projects in other regions of B&H (not only the project region), e.g. hospital in Nova Bila, kindergarden in Bosanska Krupa and Mostar and plans for fuel switch in Cantonal hospitals in Bihać and Goražde.

The project has shown positive trend in relation to accomplished targets and replication potentials.

Other Partners	
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UNDP Technical Advisor	Satisfactory
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Project is rated satisfactory.

It is the last year of project implementation and it has by now achieved its objectives of promoting biomass energy market in Bosnia & Herzegovina. All its key targets and milestones were met on time and on budget, including the installation of pilot biomass boilers, promoting the supply of pellets, awareness raising among market participants, etc.

Project activities have been implemented in a methodical and logical manner, gradually creating the enabling conditions - through awareness-raising, technical studies, capacity development and tender issuances - for the central development impact of the project, that of installing biomass boilers in schools and ensuring a reliable supply of biomass for them. Project developmental impacts have been at a range of scales - school, municipality, national - and have been sequenced in an effective manner, thereby combining to achieve an overall project impact that has been 'greater than the sum of the parts'. The project has rightly adopted a cautious approach in its school-oriented activities, owing to the socially-sensitive and education-critical nature of this sector. At the same time, it has succeeded in achieving bold national outcomes, such as the translation of critical EU standards relating to the use of bio-energy and in establishing a National Biomass Association (which has, on its own, the potential to fundamentally transform the status, profile and size of the bioenergy sector in B&H).

The project has also succeeded in leveraging additional financing from the Czech Trust Fund during the implementation

period, thereby allowing the project to address school energy efficiency needs and thereby maximise the beneficial impact of the imminent biomass boiler installations. The coordination of energy efficiency and renewable energy aspects was not anticipated in the ProDoc but has proved invaluable in strengthening development outcomes.

Overall, the project is on-schedule according to the Work Plan. Activities conducted to date have been professionally implemented and have produced commensurately strong development impacts. The project is fully deserving of a 'Satisfactory' rating.

General Comments

Progress in Implementation	
Project Manager/Coordinator	Highly Satisfactory
<p>The Implementation progress rating in this reporting period has been marked as Highly Satisfactory. This is justified by the fact that the progress of delivery of outputs in the past year have been adequately aligned with the procurement plans, work plans and in the end with the plan of achievement of project outcomes. The budget resources have been spent as planned. A big portion of this year funds is to be spent in the third quarter of 2014, for the final project installation procurement process, therefore the project delivery is on target. All remaining project funds are planned to be spent by the end of the year and by that finalize the operational closure of the project. Expected finalization of biomass boiler installations were conducted during end of 2013 and currently, therefore providing heating comfort for over 1000 students and significantly reducing emissions from coal and crude oil in the region (thus impacting the health aspects of the population). The general status of project expenditures in relation to the annual budget is in line with all financial procedures. The budgeted amounts for this reporting period (and until the end of the project) have been aligned with the annual work plans – currently around 25% of the annual budget has been spent, however the most intensive works are planned for the summer period as that is when the works on heating systems are most appropriate (in order not to influence heating periods during the heating season and cause discomfort to the pupils).</p> <p>The project management unit has proved its effectiveness in general management and adaptive management measures throughout the duration of the whole project implementation in the past several years. Its effectiveness has also been positively graded by the evaluations (especially by the mid-term evaluation). The project advisory board has been regularly consulted on all aspects of the project and has been approving processes on a regular basis, particularly activities related to procurement processes and reviews of outputs. The communication and correspondence with the Steering committee has been recorded and all of the meeting minutes have been made and approved by each member. The Steering board members have had an active role in advising and approving steps related to project implementation and are regarded as an important part of the project management unit.</p>	
UNDP Country Office Programme Officer	Highly Satisfactory
<p>The rating for the Implementation Progress is marked as Highly Satisfactory. The reasons for this are numerous, including a high level of efforts which have been invested into ensuring that all outputs planned for this year (and the whole project duration) are executed.</p> <p>The progress in this reporting period has been concentrated on finalization of biomass boiler installations, concerning that all of the other target indicators have been met or exceeded. In this reporting period 2 installations were completed in the end of 2013 and one is currently in progress. This brings a total of four school installations (out of planned ten), however additional installations were made in other areas and in one building of public use (not educational character). These activities were carried out in line with the additional coo-financing or total financing which was secured and advocated for by the project and CO. In line with this the work plans and time frames have all been meticulously planned and executed. As this is the final year budget, the current expenditure is at around 25%, however a major delivery portion is planned by the end of the summer (at completion of the last installation); hence all budget components have been planned for and exact financial allocation reserved.</p> <p>The project management unit is in detail planning, guiding and overlooking all activities of the project, as in the previous implementation years. However this reporting period has been directed more to seeking additional coo-financing and ensuring that maximum impacts are achieved from the existing funds. The project advisory board (composed of all of the relevant ministries) have been informed of any activities undertaken, and have always been consulted on any decisions made in relation to the output/outcome/target matrix.</p>	
Project Implementing Partner	
GEF Operational Focal point	Satisfactory
<p>The rating of the implementation progress of the project for this reporting period is graded as satisfactory (S). During the reporting period project activities were focused on continuing installations of biomass boilers and the removal of barriers for</p>	



biomass use, which were solved very successfully. This reporting period has been significant for the successful adaptive project management because it has provided a way to overcome problems related to financial and fuel supply aspects.

The project has constantly been investing efforts in co-financing possibilities and replication in other regions, which has proved successful for maximization of overall project targets and project work plans.

The project advisory board (as per archive minutes) have been in constant communication with the project in terms of activities undertaken and revisions related to results of the projects and adaptive management methods.

Annual project progress was in line with the project annual work plan, while expenditure and budgets have been in accordance to disbursement plans.

As this is the final project implementation report for this project, it is important to emphasize that reporting requirements have always been properly followed by providing quarterly operational reports as well as expenditure reports in accordance with UNDP BiH financial procedures. The general impression is that this project has been managed in most suitable way, utilizing all potentials available.

Other Partners	
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UNDP Technical Adviser	Satisfactory
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The project has progressed in a very satisfactory manner: majority of activities planned (as per the workplan) have been completed or have been contracted. The project conforms well to the workplan, as a majority of the activities/indicators from the LogFrame have already been fulfilled. However, since largest amount of remaining project resources is to be delivered in September (as planned), it is yet premature to assess the results and hence RTA's rating of implementation progress is satisfactory.

General Comments

## H. Communications and Knowledge Management

### The Story of This Project

The impacts and results within this reporting period have been significant. Results include completeness of two major briquette boiler installation in two largest schools of the Srebrenica region, as well as beginning of a third fuel-switch activity (briquette boiler) in the municipality of Bratunac. This together has already brought comfort to over 1000 students and employees of the schools, thus improving livelihoods directly and indirectly. The installations have been coo financed by the municipality, thus showing true and concrete awareness and belief in the benefits brought in by the use of wood biomass fuel. Needless to say, this will in the long run improve health benefits of the population of the micro-region, as per total emissions reduced.

Apart from this, the project has had an important share in development and growth of the biomass network; be it through the biomass association or through its visibility events and activities. The project has continued support of the biomass association; however the Association has presented its sustainability plans and is becoming an independent body with its own established image and important members. The biomass network (majorly established through the GEF Biomass project) has had its peak at the December 2013 conference hosted by UNDP with support of the Czech Embassy. The conference event has succeeded to bring together over 70 participants from the academia, private sector, civil organizations, governments and international organizations, with the aim of promoting biomass achievements, products and outputs of the project, other biomass plans and facilitation by the GEF project. This was an offset of contacts who have seen the Project Unit (and particularly GEF as a donor) as a facilitator and lead of further biomass activities, and UNDP as a contact for future expert guidance in this thematic area. This has brought additional investment into biomass boilers installations by the Czech Embassy (in the amount of 1 million dollars for the hospital in Bihac region), while the Czech

Ambassador Tomaš Szunyog has stressed the importance of UNDP's facilitation of these processes and satisfaction of the final beneficiaries on the field (as a result of this cooperation). These activities have been greatly covered by the local printed and news media. This reporting period has been marked by by excellent biomass market development on the field, growth of potential new investors and biomass users, greater interest and awareness of the local population and above all by interest and lead taken over by the government and academia in order to ensure legal framework and further activities in the biomass sector. This has additionally proven project's success and sustainability efforts.

**Adaptive Management this Reporting Period**

The main obstacle of this reporting period has been the financial framework for the activities to be conducted. As per project budget, the dollar exchange and project targets (ten fuel switch projects), it was impossible to implement the infrastructure part of the project to the fullest, due to the budget constraints (lack of funds) and need of implementation of other project components. Adaptive management activities have been directed towards major activities of coo-financing allocation and advocacy activities with the government institutions ( Funds for environmental protection) and municipality authorities. The project has, instead of implementation of lower number of projects, succeeded in securing coo-financing from different local authority parties, therefore also securing the sustainability component of the project. Additionally, the project has searched for different potentials of coo-financing or full financing, therefore replicating the project in different areas of Bosnia and Herzegovina (not necessarily in the project area) thus contributing largely to the creation of biomass market and the awareness of the local authorities in different regions. This has also contributed to the overall emission reduction component. As always during project implementation, minor adaptive management strategies and techniques have been applied throughout planning, procurement and implementation activities, mainly in relation to funds redistribution, technical matters related to project designs and construction works (in order to optimize the impacts and results on the field).

**Lessons Learned**

Several lessons have been learned during project implementation and during the reporting period. The project has greatly succeeded in establishing a biomass network, formed from cross-sector parties, therefore offering a unique synergy of different stakeholders, necessary for success of promotion and existence of the biomass market in Bosnia and Herzegovina. It is important to say that in order to implement several different activities and to achieve success in the wood biomass field in Bosnia and Herzegovina (which was basically non-existent prior to the project) it has been important to direct activities toward advocacy, careful lobbying and concrete planning. It has been noted that inclusion of different sectors and potentially impacted parties is of essence, including their support in on-the-field activities. Additionally, throughout implementation it is key to have support and back-up in science and expertise, in order to present true benefits of planed actions and ensure easier implementation. Additionally, thorough communication with the policy-making levels is crucial, in order to achieve sustainability of the processes and all of the adjoining factors. Therefore, the main lesson learned from the project and this reporting period is to make sure all of the data, information, positive and negative potential benefits are communicated with all parties and potential direct and indirect beneficiaries.

As noted in previous reporting periods lessons have been learned in relation to administrative and technical aspects which have been reviewed and re-evaluated at the inception period. These have proven to be important steps for the project as they have shown different situation on the field (ie technicalities related to boiler installations and construction of new boiler rooms) and impacted activity plans for following periods. Bottom line is that thorough field review and baseline data analysis are needed from the field, in order to have a realistic view of the possible impacts of the project and adaptation of tasks.

**General Comments**

**I. Partnerships**

Partners	Innovation and Work with Partners
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Civil Society Organisations/NGOs	The partnerships with the Bosnia and Herzegovina Biomass Association has continued. As mentioned in previous PIRs, the Association has been established as one of the activities of the project. The support to the Association has continued throughout the current reporting period. This NGO has made a plan of activities for the current year and has applied for several funding possibilities. In cooperation with the Municipality funding (Sarajevo Center municipality), they have already received some funds related to a biomass awareness raising proposal. In terms of this, we can say that innovative aspect has been the fact that Association has reached its sustainability factor, which is important concerning the project closure in the near future.
Indigenous Peoples	N/A
Private Sector	Partnerships with the private sector have continued. Local private companies have been connected with the project through the Biomass Association and through project activities related to contracting of assignments. The innovative aspect of these kind of partnerships is the fact that companies have received first-hand on the ground experience with, e.g., installation of biomass boilers and training for their operation. In terms of this, the GEF Biomass project has made significant contribution to providing a platform for these activities to be implemented.
GEF Small Grants Programme	N/A
Other Partners	The project has in the previous year successfully cooperated with the Czech Embassy in Bosnia and Herzegovina. The Czech representatives have shown interest in the biomass activities in the previous year and have also cofinanced the project in the past. At the end of 2013 a biomass conference has been organized with the Czech partners in order to promote some of the innovative aspects of biomass concepts in B&H and promote the current outputs of the GEF project. The partnership has yielded excellent results in terms of establishing a B&H network of interested parties on the topic of biomass coordination (academia, forestry engineers, mechanical engineers, government and private sector). Additionally, the partnership has yielded a recommendation for a new project proposal within the Czech Aid for Trade programme, which is conceptualized around biomass policy and will be implemented by the forestry faculties in B&H (in cooperation with relevant Ministries). The whole process will be facilitated by the GEF Biomass project.

## General Comments

## J. Progress toward Gender Equality

Findings of gender/social needs assessment	
Changes in targeting women/girls	

Additional information on the project's work on gender equality	<p>Gender assessments and gender monitoring charts in relation to the project have been carried out and/or compiled in the previous reporting periods. These have been related to the numbers of boys/girls attending the schools to be impacted by the project, number and educational status in relation to males/females in the schools and the municipality authorities of the three municipalities of the project area.</p> <p>As the project does not specifically target women or girls as direct beneficiaries, it is important to note that the ratios of boys:girls in the affected schools is almost equal, however in many schools there are more girls than boys. This shows that the project impacts (the raised heating comfort, better educational environment and conditions, improved health potential etc.) are very much impacting the females of the micro-region, thus providing potential positive outcomes related to their education and health.</p> <p>A few examples of male:female number of pupils:</p> <p>School VK Bratunac m:f ratio 301:264</p> <p>School BR Bratunac m:f ratio 401:412</p> <p>School Srebrenica m:f ratio 300:450</p>
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## General Comments

## K. Environmental \ Social Grievances

Related environmental or social issue	
Status	
Significance	
Detailed description	No grievances noted.

## L. Project Contacts and Links

Partner	Contact Name	Email Address
Project Coordinator / Manager	Amila Selmanagic Bajrovic	amila.selmanagic.bajrovic@undp.org
UNDP Country Office Programme Officer	Sanjin Avdic	sanjin.avdic@undp.org
Project Implementing Partner	Ministry of Foreign Trade and Economic Relations of BiH	senadoprasic@yahoo.com
GEF Operational Focal Point	Senad Oprasic	senadoprasic@yahoo.com
Other Partners	Ministry of Education and Culture RS	v.vasilic@mp.vladars.net
UNDP Technical Adviser	Marina Olshanskaya	marina.olshanskaya@undp.org

Project website, etc.	<p>UNDP Project website:  <a href="http://www.ba.undp.org/content/bosnia_and_herzegovina/en/home/operations/projects/environment_and_energy/bosnia_and_herzegovina_biomass_energy_for_employment_and_energy_security_project.html">http://www.ba.undp.org/content/bosnia_and_herzegovina/en/home/operations/projects/environment_and_energy/bosnia_and_herzegovina_biomass_energy_for_employment_and_energy_security_project.html</a></p>
Links to media coverage	<p>Media coverage of different project events or activities:</p> <p><a href="https://www.youtube.com/watch?v=QOPTBomLCwE">https://www.youtube.com/watch?v=QOPTBomLCwE</a></p> <p><a href="http://www.brzevijesti.ba/clanak/754/trzise-biomasom-moze-dovesti-do-veceg-zaposljavanja">http://www.brzevijesti.ba/clanak/754/trzise-biomasom-moze-dovesti-do-veceg-zaposljavanja</a></p> <p><a href="https://www.youtube.com/watch?v=IYE69FTqTkM">https://www.youtube.com/watch?v=IYE69FTqTkM</a></p> <p><a href="http://www.ekapija.ba/bs/Vijest/vijesti/biomasa---gorivo-buducnosti-u-bih/33586#ad-image-0">http://www.ekapija.ba/bs/Vijest/vijesti/biomasa---gorivo-buducnosti-u-bih/33586#ad-image-0</a></p> <p><a href="https://www.youtube.com/watch?v=3s0Jb9fhy5c">https://www.youtube.com/watch?v=3s0Jb9fhy5c</a></p> <p><a href="http://www.ba.undp.org/content/bosnia_and_herzegovina/bs/home/presscenter/vijesti/2013/12/13/konferencija-biomasa-gorivo-budu-nosti-/">http://www.ba.undp.org/content/bosnia_and_herzegovina/bs/home/presscenter/vijesti/2013/12/13/konferencija-biomasa-gorivo-budu-nosti-/</a></p> <p><a href="http://www.biomass-association.ba/">http://www.biomass-association.ba/</a></p> <p><a href="https://www.youtube.com/watch?v=JOLeDkqp4hA">https://www.youtube.com/watch?v=JOLeDkqp4hA</a></p> <p><a href="http://www.dnevno.ba/vijesti/novac/96096-biomasa-predstavlja-znacajnu-mogucnost-za-povecanje-zaposljavanja-i-izvoza.html">http://www.dnevno.ba/vijesti/novac/96096-biomasa-predstavlja-znacajnu-mogucnost-za-povecanje-zaposljavanja-i-izvoza.html</a></p> <p>Apart from these media coverages of specific project events, the conference on the “Fuel for the Future” took place in the UN House, Sarajevo on December 13th 2013, and it was fully covered by media.</p> <p>The event was covered by TV Pink BiH, Onasa Newspaper and 12 Web media (business-magazin.ba, vijesti-x.com, Bljesak.info, indikator.ba, Bljesak.info, Ekapija.ba, Fena.ba, hum.ba, sensservis.eu, antena-radio.ba, mediax.biz, obican.ba)</p>

Below are direct web links of the announcements, as follows:

1. <http://www.hum.ba/aktualnosti/3248-biomasa-gorivo-buducnosti-u-bih.html>
2. [http://www.sensservis.eu/index.php?option=com\\_content&view=article&id=60539:2013-12-13-10-52-50&catid=55:bih&Itemid=200](http://www.sensservis.eu/index.php?option=com_content&view=article&id=60539:2013-12-13-10-52-50&catid=55:bih&Itemid=200)
3. <http://www.antena-radio.ba/ekonomija/item/482-izgradnjom-trzista-biomase-do-veceg-zaposljavanja-u-bih>
4. <http://www.mediax.biz/news/biznis/item/8042-biomasa-gorivo-za-budu%C4%87nost.html>
5. <http://www.obican.ba/biomasa-gorivo-buducnosti-u-bih/>
6. <http://www.bljesak.info/rubrika/business/clanak/biomasa--gorivo-buducnosti-u-bih/71597>
7. [http://www.business-magazin.ba/index.php?option=com\\_content&view=article&id=3407:konferencija-biomasa--gorivo-budunosti&catid=42:domae-vijesti&Itemid=100066](http://www.business-magazin.ba/index.php?option=com_content&view=article&id=3407:konferencija-biomasa--gorivo-budunosti&catid=42:domae-vijesti&Itemid=100066)
8. <http://www.vijesti-x.com/konferencija-biomasa-gorivo-buducnosti/>
9. <http://www.indikator.ba/index.php/ekonomija/46473-biomasa-bih>
10. <http://ekapija.ba/bs/Vijest/news/biomass---fuel-of-the-future-in-bih/33586#ad-image-0>

## M. Annex 1 - Ratings Definitions

### Implementation Progress Ratings Definitions

*Highly Satisfactory (HS)*: Implementation of all components is in substantial compliance with the original/formally revised implementation plan for the project. The project can be presented as 'good practice'.

*Satisfactory (S)*: Implementation of most components is in substantial compliance with the original/formally revised plan except for only few that are subject to remedial action.

*Moderately Satisfactory (MS)*: Implementation of some components is in substantial compliance with the original/formally revised plan with some components requiring remedial action.

*Moderately Unsatisfactory (MU)*: Implementation of some components is not in substantial compliance with the original/formally revised plan with most components requiring remedial action.

*Unsatisfactory (U)*: Implementation of most components is not in substantial compliance with the original/formally revised plan.

*Highly Unsatisfactory (HU)*: Implementation of none of the components is in substantial compliance with the original/formally revised plan.

### Development Objective Progress Ratings Definitions

*Highly Satisfactory (HS)*: Project is expected to achieve or exceed all its major global environmental objectives, and yield substantial global environmental benefits, without major shortcomings. The project can be presented as 'good practice'.

*Satisfactory (S)*: Project is expected to achieve most of its major global environmental objectives, and yield satisfactory global environmental benefits, with only minor shortcomings.

*Moderately Satisfactory (MS)*: Project is expected to achieve most of its major relevant objectives but with either significant shortcomings or modest overall relevance. Project is expected not to achieve some of its major global environmental objectives or yield some of the expected global environment benefits.

*Moderately Unsatisfactory (MU)*: Project is expected to achieve of its major global environmental objectives with major shortcomings or is expected to achieve only some of its major global environmental objectives.

*Unsatisfactory (U)*: Project is expected not to achieve most of its major global environment objectives or to yield any satisfactory global environmental benefits.

*Highly Unsatisfactory (HU)*: The project has failed to achieve, and is not expected to achieve, any of its major global environment objectives with no worthwhile benefits.