

Project Fiche – IPA Annual Action Programme 2007 for Bosnia and Herzegovina
Support to Implementation of the "Integrated Pollution Prevention and Control"
Directive

1. Basic information

1.1 CRIS Number:

1.2 Title: Support to Implementation of the "Integrated Pollution Prevention and Control" Directive

1.3 ELARG Statistical code: 03.27 – Environment

1.4 Location: Bosnia and Herzegovina

Implementing arrangements:

1.5 Contracting Authority (EC): Delegation of the European Commission to Bosnia and Herzegovina

1.6 Implementing Agency: Delegation of the European Commission to Bosnia and Herzegovina

1.7 Beneficiary (including details of project manager):

State Level

Ministry of Foreign Trade and Economic Relations:

Mr. Reuf Hadžibegić, Assistant Minister, Senior Programming Officer

Ministry of Foreign Trade and Economic Relations

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Entity Level

Ministry of Environment and Tourism, FBiH

Ministry of Physical Planning, Civil Engineering and Ecology, RS

Federal Ministry of Agriculture, Water Management and Forestry, FBiH

Ministry of Agriculture, Forestry and Water Management, RS

Entity Inspectorates for FBiH, RS

District Brcko Permitting and Inspection Authorities

Industry of Bosnia and Herzegovina

Financing:

1.8 Overall cost: 1.5 MEUR

1.9 EU contribution: 100%

1.10 Final date for contracting: N+2

1.11 Final date for execution of contracts: N+4

1.12 Final date for disbursements: N+5

2. Overall Objective and Project Purpose

2.1 Overall Objective:

The overall objective of this project is to contribute to strengthening of administrative capacity of the institutions involved in environmental protection and ensuring the implementation of the already transposed legislation.

2.2 Project purpose:

The project purpose is to support the integrated approach for sustainable development and compliance control with regards to implementation of the "Integrated Pollution Prevention and Control" (IPPC) and the "European Pollutant Transfer and Release Registry" (EPRTR) Directives, focussing on the energy production and combustion sectors of industry. The project aims to support the implementation of current and future international obligations of BiH, in particular towards the Aarhus Convention (Kiev Protocol on Pollutant Release and Transfer Registers), Kyoto Protocol on Climate Change and the Energy Community Treaty.

2.3 Link with AP/NPAA / EP/ SAA

European Partnership (Mid-term Priorities):

Continue strengthening administrative capacity of the institutions involved in environmental protection, in particular at State-level, and ensuring the implementation of the already transposed legislation. Ensure that a functioning environmental monitoring system is in place.

The BiH Progress Report for 2006 states:

Regarding horizontal legislation, some developments have taken place, notably through the adoption of the Law on Inspections by Republika Srpska in January 2006. In the Federation, the Law on Inspections has been adopted, but its constitutionality is under revision and it has therefore not yet been implemented. Nonetheless, these laws limit inspectors' competencies to spatial planning and civil engineering issues and do not properly cover the range of the environmental legislation. Moreover, as in other areas, the lack of uniform implementation of legislation by the Entities remains an issue. The implementation of the existing Environment Impact Assessment legislation needs to be further improved. Some progress has been made towards ratification and implementation of respective international conventions in the field of environment. Further efforts are needed.

*Some developments have taken place regarding air quality, through the adoption by the Entities of implementing legislation on air protection. This legislation concerns monitoring, threshold values of emissions from various air polluters and phased withdrawal of ozone depleting substances, in line with the Convention on the Protection of the Ozone Layer. The level of alignment of this legislation with the *acquis* remains to be confirmed.*

2.4 Link with MIPD

The Multi-Annual Indicative Planning Document (MIPD) for 2007 to 2009 identifies as a result that the alignment of the Bosnia and Herzegovina environment and water sectors to the *acquis* will be advanced. The MIPD also identifies as a programme the integration of environment measures into regional and rural development, investments in environmental infrastructure, necessary institution building and awareness raising on environmental issues. The proposed assistance envisages the above actions.

2.5 Link with National Development Plan (where applicable)

The intervention is in line with the BiH Mid-term Development Strategy (2004-2007), in particular the strengthening of the legal and institutional framework for the environment sector, establishment of inter-sectoral approach in areas of priority (e.g. industry, power sectors), improvement of environmental statistics system and improvements with regards to air quality and climate change.

2.6 Link with national/ sectoral investment plans (where applicable)

The supply of equipment and associated training for field monitoring (Activity 3) is based on the Laboratory and Monitoring Investment Plan, developed through the framework of the national CARDS Project "Support to Environmental Field Inspection". The investment plan contains three sections: the requirement for field equipment, the requirement for additional laboratory equipment and the training requirements to support both investments. The document was finalized in April 2007, having gone through extensive consultations and needs assessment with stakeholders.

3. Description of project

3.1 Background and Justification

The IPPC Directive is based on several principles: an integrated approach, best available techniques, flexibility and public participation. It is one of the instruments for sustainable development and promotes the development of industry whilst reducing the environmental impact per unit of production.

Within BiH, the IPPC Directive is introduced through environmental permit regulations at Entity and District Brcko level. New economic units must apply for an environmental permit prior to commencing operations, existing units have until 2008 to comply with the regulations.

The integrated approach means that the permits must take into account the whole environmental performance of an industrial plant, covering e.g. emissions to air, water and land, generation of waste, use of raw materials, energy efficiency, noise, prevention of accidents, and restoration of the site upon closure

The Entity-level Ministries of Environment and District Brcko Authorities must issue integrated permits that provide a risk-based approach to environmental control for the existing facility and a timetable for measures that will enable full compliance with environmental and safety legislation based on environmental risk assessment as well as economic drivers. In FBiH, permits may be issued by Cantons for economic units within the competence of this administrative unit, and similarly in the RS by the municipal authority.

It is likely that energy efficiency measures will be the most cost-effective changes for industry. The Inspectorates must be able to test whether or not the industrial facility has achieved the goals set by the integrated permit.

Developments of Best Available Techniques Reference Documents (BREFs) must take into account the Best Available Techniques (BATs) that are economically, socially and environmentally feasible and customized for BiH. This concept is also in accordance with the flexibility principle of the IPPC Directive and can take into account the total industrial use for the region or the country. The industries that will have the most challenges in the implementation of the IPPC Directive will surely be power generators (combustion facilities), primarily electricity but also local boilers such as Central Heating Plants (CHPs) and intensive agriculture farms (chicken farms).

General advice on Best Available Technology (BAT) and example monitoring protocols are available from the European Commission, and from the environmental agencies of Member States, free of charge. These can be translated into local language as background documents, but these generic documents must be customised for local economic conditions in order to

provide appropriate technical guidance for industry in BiH and to concentrate on the equipment and processes most common in BiH.

BAT provides assistance to industry and authorities to agree a set of objectives. Effective *compliance control* requires an environmental permit with enforceable conditions to ensure that these objectives are undertaken and maintained, which includes monitoring requirements for the industrial units. A good permit is the basis for a specific inspection plan for each site to check compliance with the permit conditions and to take independent measurements of emissions from the installation to audit the monitoring information provided by the company..

All four elements (BAT, effective permits, monitoring plan and inspection plan) need to be developed for different industries with transfer of knowledge and skills to ministries, industry and inspectorates. In addition, the inspectorates will need equipment to perform their monitoring function.

In this way, the combined activities of the permitting departments, the inspectorate and industry will work together for sustainable development for BiH.

This planned intervention builds on recent CARDS technical assistances “Support to Implementation of EIA Directive”, “Support to Air Quality Monitoring" and "Support to Environmental Field Inspection", the LIFE TCY project “Capacity Building In Integrated Pollution Prevention and Control in Bosnia And Herzegovina”. The LIFE TCY project is working in the food and beverage sector in Bosnia and Herzegovina.

This intervention will address the needs of what is foreseen as the most challenging sector to implement the IPPC Directive in Bosnia and Herzegovina, the power generation and combustion sector.

Complementary activities within the intervention are proposed to further the development of the Pollutant Release and Transfer Registry for BiH under the Kiev Protocol of the Aarhus Convention and the EPRTR Directive. A feasibility study was completed within the CARDS project “Support to Environmental Field Inspection” and there will be an agreed programme and timetable for development of this system together with implementing regulations adopted at Entity level. Industries with environmental permits must make an initial report of limited pollutants in 2008, based on emissions for 2007. Industry will report to three Pollutant Release and Transfer Registry (PRTR) regional units (i.e. Entity Ministries of Environment and District Brcko authorities). More detailed reporting is required in 2010. Additional technical support is needed to write technical guidance for industry to enable detailed reporting of their emissions in the approved format, and to provide training on its use. This technical guidance for estimating emissions and reporting to PRTR is complementary to the technical guidance for selecting and using appropriate emission control and monitoring equipment by industry and inspectorate. Better monitoring at industrial sites, together with regular reporting, will help with compliance control activities.

The purpose of PRTR, rather than a register of emissions, is to provide public access to information on emissions and transfers. A public access website is required and will be developed under this project. The public access website will be built with the National Focal Point which will collect data from the three regional units and compile to one set of data. The National Focal Point will be the Ministry of Foreign Trade and Economic Relations. A further technical assistance and procurement project will be needed to develop an integrated electronic system for the country.

3.2 Assessment of project impact, catalytic effect, sustainability and cross border impact (where applicable)

The target industry for this project (energy production and combustion) makes substantial emissions to atmosphere, particularly greenhouse gas emissions. The energy production sector is an export industry providing power to Croatia as well as domestic customers. There is potential for further export markets in this sector. Some of this electricity is from hydropower sources; the remainder from high sulphur local coal. Coal-fired power plants are some of the largest particulate and acid gas emitters in BiH and major contributors to the country's greenhouse gas discharges.

Many other industries and municipalities operate their own combustion plants for raising industrial steam, district heating, internal power for the factory, and heat for processes and for space heating. The fuel can be coal, oil, gas, wood or waste. All contribute to the greenhouse gas emissions of BiH and can have additional adverse environmental impacts through deforestation and the impact of mining.

Recent experience in BiH shows that improvement to combustion technologies can increase the efficiency of the combustion processes with short pay-back periods for the investment (examples are CARDS project "Support to Environmental Field Inspection" pilot studies; Canton Sarajevo feasibility study to replace district heating boilers; feasibility study for district heating in Konjic; proposal for waste heat from Tuzla Power Plant to be used for district heating in Zivinice). The combustion sector requires an investment in change to new technologies, and better management of existing plant, to increase efficiencies. In some cases, improved combustion technology will substantially reduce the emissions/unit of power particularly for NO_x, CO₂ and particulates and reduce operating costs thus allowing emission control equipment to be installed at a later date. Other plant will require emission control systems immediately to reduce environmental discharges.

This intervention will provide technical assistance and equipment to enable the authorities and industry to identify the opportunities to improve combustion and environmental performance for combustion plants of all sizes, and to write effective permits and monitoring programmes to control operations. Apart from local finance, identified investments to improve combustion efficiency and reduce atmospheric emissions of CO₂ have potential for priority investment under GEF or World Bank programmes targeting climate change, or from other sources seeking to offset greenhouse gas emissions by investment in this sector.

The technical assistance given to develop permits and monitoring programmes for the combustion sector, and the equipment provided to inspectors, will be used to develop the environmental control systems for other industrial sectors in BiH and hence contribute to the improved environmental management of BiH over a much wider field.

The intervention will assist BiH to develop a polluter and pollutants register that is compatible with the aims of the Kiev Protocol and the data outputs required by the EPRTD Directive. Technical assistance will increase the ability of industry to provide annual emission and transfer data to the authorities and to develop the integrated system for the country such that different parts of the administration can use this data for improved environmental management. Improved data collection will enable reporting for a number of international obligations (e.g. **Montreal, Kyoto Protocol, Stockholm Convention on Persistent Organic Pollutants**) as well as the EPRTD.

This project concentrates on managing data collection and transfers at the Entity level to improve the knowledge base in permitting authorities and inspectorates to improve compliance control systems and to give data for development of environmental policy and activity planning.

It will define the ToR for a future project to create an electronic system across BiH that will include the National Focal Point for PRTR.

3.3 Results and measurable indicators:

Result 1: National Guidelines on Best Available Technology (BAT) for the power generation and combustion sector established, adopted, and disseminated, implementation and monitoring underway. National Horizontal BATs containing guidelines for common¹ large and small-scale industrial activities established, adopted, and disseminated, implementation and monitoring underway.

Result 2: Guidance provided to the industry sector to make effective and complete permit applications.

Result 3: Equipment to assist inspectorates in monitoring facilities with integrated environmental permit in the industrial sectors and activities where BAT is provided by the intervention is procured and operational. Inspectors trained in the appropriate use of the equipment and in the assessing accuracy, use and storage of the data collected.

Result 4: Data collection and data input and output systems for PRTR at the Entity Ministries of Environment and District Brcko in accordance with Framework Law on Environment. Electronic transfer systems linking PRTR database inputs and outputs with necessary electronic systems at National Reference Centres for soil, air, water, National Focal Point for PRTR, Inspectorate, Cantons and Municipalities installed and operational by end of project. Public access website developed to display this data and provide the minimum outputs required by PRTR Directive developed and on-line by end of project. Websites for Ministries of Environment at Entity level developed and on-line by end of project. ToR for follow-up technical assistance and investment project for PRTR prepared

Indicators

- Permitting and inspection authorities, industry, relevant ministries and other related stakeholders endorsement of BAT guidelines by end of project.
- Permitting and inspection authorities complete effective monitoring reports on a number of energy production and combustion facilities, thereby effectively monitoring the application of BAT guidelines in BiH
- Industry measures comply with the BAT Guidelines.
- Five permits or more for combustion plants issued at Entity level with specification of the monitoring schedules and a timetable for investment and management changes to meet BiH environmental legislation by specified deadline. The number of permits will be distributed equally across administrative regions, e.g. 2 for RS, 2 for FBiH and 1 for District Brcko.
- Inspection authorities issue a number of monitoring reports on facilities with integrated environmental permits.
- A number of permits granted by inspectors through application of field methodology and use of monitoring equipment.
- Practical technical guidance provided for PRTR reporting by industry for all media (water, air, soil, waste transfer, fugitive emissions) for all pollutants and pollutant groups identified in Rulebook to implement Article 28 of the Framework Law on Environment

¹Industrial activities common to all industrial sectors, including operation of boilers for raising steam or hot water (using coal, wood, oil, gas and waste), solvent use (volatile organic compounds), liquid and gaseous storage (including storage of benzene and diesel), coating processes and vehicle maintenance.

- Two sets of regional and sectoral training provided to industry to implement this guidance at 8 locations
- Websites receive positive comments from public, government, entity stakeholders.

3.4 Activities:

Activity 1 Development of BAT and Monitoring Systems

Technical assistance in conjunction with a technical working group² formed in the inception phase of the intervention.

Activity 2: Support to the BiH Authorities at Entity level to issue integrated permits for combustion plants and sectoral guidance to industry to make effective and complete applications

Technical assistance to Ministries of Environment and associated authorities.

Activity 3 Procurement of equipment for inspectorates and training in use

The supply contract will procure portable field equipment for monitoring, together with the training in its use, calibration and maintenance.

Activity 4 Support for Development of PRTR in BiH

Technical Assistance to Ministry of Environment at Entity level

Activities 1, 2 and 4 will be implemented through a Technical Assistance/Services contract (Contract 1). Activity 3 will be implemented through Supply contract (Contract 2).

3.5 Conditionality and sequencing:

Technical Assistance Activities

Component 1: Support for IPPC implementation and compliance control of environmental permits

Technical Assistance is dependent on the administration at Entity level and DB, together with representatives of permitting and inspection authorities at Cantonal (FBiH) and Municipal (RS) level, taking active part in a working group to determine priorities and objectives for choosing the industrial sectors for BAT development and associated emission control and monitoring requirements.

Activity 1, development of BAT, should be completed during year 1 of the project so that information is available for use by all authorities in development of permits and review/discussion of activity plans.

Training for inspectorate on developing inspection plans, monitoring programmes and the use of portable equipment must be delivered after the portable equipment has been delivered.

Component 2 PRTR

Any technical assistance for objective 2 is dependent on the following:

- Legislation to implement Article 28 of framework law on environment in place in both Entities, planned for the first quarter of 2007.
- First request to industry to supply data on emissions and transfers for the year 2007 despatched by Ministries of Environment by 31 March 2008.

² Technical working groups will consist of permitting and inspection authorities, representatives for technical expertise on air, water, soil and waste, NGOs, industry, other users and other relevant ministries, as required.

- Personnel employed to operate the PRTR databases in both Ministries of Environment. Personnel have been employed in FBiH, or will be in the short-term, as is the case in the RS.
- A PRTR Advisory Board, working group and sub-groups established by 31 March 2008.

The consultant must develop the website to display data from the PRTR and install this at the Ministry of Foreign Trade and Economic Relations by 1 February 2009.

Equipment Procurement

Procurement process of monitoring equipment and vehicles for Inspectorates should start in the last quarter of 2007, or as early as possible. Equipment list and technical specifications are already available in the Laboratory and Monitoring Equipment Investment Plan.

Before start of tendering, Beneficiary must confirm the required equipment and develop ownership agreements with cantonal/municipal inspection authorities, determine location of equipment per region and storage system (log-in/log-out sheets for use of equipment).

3.6 Linked activities

LIFE TCY project “*capacity building in integrated pollution prevention and control in Bosnia and Herzegovina*” completes its activities in September 2008. The project is creating BAT and exemplar integrated environmental permits for food and drink industry sectors and has a dissemination component. BAT for the food and drink sector will include some horizontal activities of relevance to other sectors in BiH and these need to be incorporated into the horizontal guidance provided in this project.

The format for permits and BAT will have been established by the LIFE TCY project and, unless there are good reasons for change, should be followed by this project so that there is a coherent set of information for industry.

The LIFE TCY project established a polluter and pollutant database in MsAccess to collect data required by PRTR, and supports the operators of the new system. One unit is provided in the Ministries of Environment at both Entities and at District of Brcko. These three databases will be developed into a fully integrated PRTR during this project and a follow-up project. To ensure consistency of advice to industry, existing technical guidance for the operation of the database and advice to industry must be incorporated into the new work for development of PRTR.

USAID project “*SPIRA*” provides assistance to the Entity inspectorates for development of management systems, electronic communication systems and activity planning. Any electronic systems, activity plans and management systems introduced primarily for water and environmental inspectors by this project must be compatible with the SPIRA systems which are used by the whole inspectorate.

3.7 Lessons learned

The focus of past EC assistance relevant to this intervention (CARDS national projects “Support to Implementation of EIA Directive”, “Support to Air Quality Monitoring” and “Support to Environmental Field Inspection”) has been to improve the legislative framework. These projects have also contributed to an improved enforcement of legislation, have been effective as a transfer of know-how and on-the-job training. Additionally, the Progress Report for BiH for 2006 outlines the issue of uniform implementation of legislation. The capacities of Inspectorates to deliver effective environmental compliance control are limited and

implementation of environmental legislation by the Entities remains to be an issue. This intervention will therefore address the implementation of existing legislation by providing the knowledge base with authorities and inspectorates to improve compliance control and feed data into development of policy and activity planning.

The final EC monitoring report of the EU CARDS project "Support to Environmental Field Inspection" recommends preparing follow-up assistance to the industry in the decision-making process regarding environmental investment options. The proposed intervention attempts to follow-up on this recommendation and to build on previous projects by addressing the legislative requirements for the industry.

4. Indicative Budget (amounts in €)

Activities	TOTAL COST	SOURCES OF FUNDING										
		EU CONTRIBUTION				NATIONAL PUBLIC CONTRIBUTION				PRIVATE		
		Total	% *	IB	INV	Total	% *	Central	Regional	IFIs	Total	% *
Activities 1, 2 and 4												
Contract 1.1: Support to Implementation of IPPC and EPRTD Directives	1,200,000	1,200,000	100	1,200,000								
Activity 3												
Contract 1.2: Procurement of equipment for field monitoring for Inspectorates	300,000	300,000	100	x	300,000							
TOTAL	1,500,000	1,500,000	100	1,200,000	300,000							

* expressed in % of the Total Cost

5. Indicative Implementation Schedule (periods broken down per quarter)

Contracts	Start of Tendering	Signature of contract	Project Completion
Contract 1.1: Support to Implementation of IPPC and EPRTD Directives	Q1 2008	Q3 2008	Q3 2010
Contract 1.2: Procurement of equipment for field monitoring for Inspectorates	Q1 2008	Q3 2008	Q1 2009

All projects should in principle be ready for tendering in the 1ST Quarter following the signature of the FA

6. Cross cutting issues (where applicable)

6.1. Equal Opportunity

No discrimination of whatever nature will be applied.

The principle of non-discrimination regarding nationality, gender, religion and race will be applied during tendering, contracting and implementation of this project and all parties involved in all phases of the project will have equal opportunity.

The project will support BHAS and its partners in order to recognize and address issues of equal opportunity.

6.2 Environment

The project itself will have no environmental impact.

6.3 Minorities

Please see 6.1 above.

ANNEX 1: Logical framework matrix in standard format

LOGFRAME PLANNING MATRIX FOR Project Fiche	Programme name and number: Support to Implementation of the Integrated Pollution Prevention and Control Directive	
	Contracting period expires	Disbursement period expires
	Total budget : 1,500,000 EUR	IPA budget: 1,500,000 EUR

Overall objective	Objectively verifiable indicators	Sources of Verification	
The overall objective of this project is to contribute to strengthening of administrative capacity of the institutions involved in environmental protection and ensuring the implementation of the already transposed legislation.	Improved environmental management capacities of permitting and inspection authorities and industry in Bosnia and Herzegovina. Improved environmental performance of industry. Improved development BiH environmental policy, activity planning and reporting towards international obligations. Improved coordination and data exchange between stakeholders	State of the Environment reports. Inspectorate, Ministry reports Reports	
Project purpose	Objectively verifiable indicators	Sources of Verification	Assumptions
Support the integrated approach for sustainable development and compliance control with regards to implementation of the "Integrated Pollution Prevention and Control" (IPPC) and the "European Pollutant Transfer and Release Registry" (EPRTR) Directives, focussing on the energy production and combustion sectors of industry.	Confirmation that BiH legislation in line with requirements of the IPPC and EPRTR Directives. MoE processes for implementing legislation complete.	EC Progress Report BiH Ministry of Environment reports IPPC and EPTR Directives	Adequate human and technical resources of permitting, inspection authorities and the National Focal Point for PRTR. Industry willing to cooperate. Rulebooks adopted and implemented for PRTR in Entities.
Results	Objectively verifiable indicators	Sources of Verification	Assumptions
Result 1 National Guidelines on Best Available	<ul style="list-style-type: none"> Permitting and inspection authorities, industry, relevant ministries and other related stakeholders endorsement of 	Authorising, inspection authority reporting.	Adequate human and technical capacities.

³Industrial activities common to all industrial sectors, including operation of boilers for raising steam or hot water (using coal, wood, oil, gas and waste), solvent use (volatile organic compounds), liquid and gaseous storage (including storage of benzene and diesel), coating processes and vehicle maintenance.

<p>Technology (BAT) for the power generation and combustion sector established, adopted, and disseminated, implementation and monitoring underway. National Horizontal BATs containing guidelines for common³ large and small-scale industrial activities established, adopted, and disseminated, implementation and monitoring underway.</p> <p>Result 2 Guidance provided to the industry sector to make effective and complete permit applications</p> <p>Result 3 Equipment to assist inspectorates in monitoring facilities with integrated environmental permits procured and operational. Inspectors trained in the appropriate use of the equipment and in the accuracy, use and storage of the data collected.</p> <p>Result 4 Data collection and data input and output systems for PRTR at the Entity Ministries of Environment and District Brcko in accordance with Framework Law on Environment Electronic transfer systems linking PRTR database inputs and outputs with necessary electronic systems at National Reference Centres for soil, air, water, National Focal Point for PRTR, Inspectorate, Cantons and Municipalities installed and operational by end of project.</p>	<p>BAT guidelines by end of project..</p> <ul style="list-style-type: none"> • Permitting and inspection authorities complete effective monitoring reports on a number of energy production and combustion facilities, thereby effectively monitoring the application of BAT guidelines in BiH.. • Industry measures comply with the BAT Guidelines. • Five permits or more for combustion plants issued at Entity level with specification of the monitoring schedules and a timetable for investment and management changes to meet BiH environmental legislation by specified deadline. The number of permits will be distributed equally across administrative regions, e.g. 2 for RS, 2 for FBiH and 1 for District Brcko. • Inspection authorities issue a number of monitoring reports on facilities with integrated environmental permits. A number of permits granted by inspectors through application of field methodology and use of monitoring equipment. • Practical/technical guidance provided for PRTR reporting by industry for all media (water, air, soil, waste transfer, fugitive emissions) for all pollutants and pollutant groups identified in Rulebook to implement Article 28 of the Framework Law on Environment • Two sets of regional and sectoral training provided to industry to implement this guidance at 8 locations • Websites receive positive comments from public, government, entity stakeholders. 	<p>State of the Environment reporting.</p>	<p>Willingness of industry to cooperate.</p>
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<p>Public access website developed to display this data and provide the minimum outputs required by EPRTTR Directive developed and on-line by end of project. Websites for Ministries of Environment at Entity Level developed and on-line by end of project. ToR for follow-up technical assistance and investment project for PRTR prepared</p>			
Activities	Means	Costs	Assumptions
<p>Development of BAT and Monitoring Systems</p> <p>Support to the BiH Authorities at Entity level to issue integrated permits for combustion plants and sectoral guidance to industry to make effective and complete applications</p> <p>Procurement of equipment for inspectorates and training in use</p> <p>Support for Development of PRTR in BiH</p>	<p>TA Contract</p> <p>TA Contract</p> <p>Supply Contract</p> <p>TA Contract</p>	<p>€500,000 €200,000</p> <p>€300,000</p> <p>€500,000</p>	

Pre-conditions

ANNEX II: amounts (in €) Contracted and disbursed by quarter for the project

Contracted	1st Quarter 2008	2nd Quarter 2008	3rd Quarter 2008	4th Quarter 2008	1st Quarter 2009	2nd Quarter 2009	3rd Quarter 2009	4th Quarter 2009	1st Quarter 2010	2nd Quarter 2010	3rd Quarter 2010	4th Quarter 2010
Contract 1.1			1.2 M									
Contract 1.2			0.3 M									
Total			1.5 M									
Cumulated			1.5 M									
Disbursed	1st Quarter 2008	2nd Quarter 2008	3rd Quarter 2008	4th Quarter 2008	1st Quarter 2009	2nd Quarter 2009	3rd Quarter 2009	4th Quarter 2009	1st Quarter 2010	2nd Quarter 2010	3rd Quarter 2010	4th Quarter 2010
Contract 1.1			0.36 M		0.24 M		0.24 M		0.24 M			0.12 M
Contract 1.2			0.18 M		0.12 M							
Total			0.54 M		0.36 M		0.24 M		0.24 M			0.12 M
Cumulated			0.54 M		0.9 M		1.14 M		1.38 M			1.5 M

ANNEX III: Details of EU-funded contractor (where applicable)

Reference to laws, regulations and strategic documents:

Please see Project Fiche for details below:

Reference list of relevant laws and regulations

Reference to AP /NPAA / EP / SAA

Reference to MIPD

Reference to National Development Plan

Reference to national / sectoral investment plans

ANNEX IV: Details of EU-funded contractor (where applicable)

TA Contract

1. Tasks expected from contractor

The contractor will supply all technical assistance identified as being required for the implementation of the project, included in all 4 Activities. Provision of training. Timely reporting of project implementation and progress.

Tasks:

- Coordination of project activities in line with agreed work plan;
- Ensure efficient and timely project implementation;
- Arrange training – both internally in the form of workshops, on the job training and externally on two study tours to accession countries and new EU member states;
- Oversee purchase of agreed inputs using approved methods and contracting systems;
- Installation and correct use of inputs in line with work plan;
- Undertake analysis and evaluation with project counterparts;
- Prepare reports in line with official EU reporting guidelines.

2. Results to be achieved through implementation of project:

- National Guidelines on Best Available Technology (BAT) for the energy production power generation and combustion sector established, adopted, and disseminated, implementation and monitoring underway.
- National Horizontal BATs containing guidelines for common large and small-scale industrial activities small and large activities established, adopted, and disseminated, implementation and monitoring underway.
- Five permits or more for combustion plants issued at Entity level with specification of the monitoring schedules and a timetable for investment and management changes to meet BiH environmental legislation by a set deadline. The number of permits will be distributed equally across administrative regions, e.g. 2 for RS, 2 for FBiH and 1 for District Brcko.
- Guidance provided to the industry sector to make effective and complete permit applications.
- Inspectors trained in the appropriate use of the equipment and in the accuracy, use and storage of the data collected.
- Practical technical guidance provided for PRTR reporting by industry for all media (water, air, soil, waste transfer, fugitive emissions) for all pollutants and pollutant groups identified in Rulebook to implement Article 28 of the Framework Law on Environment
- Two sets of regional and sectoral training provided to industry to implement this guidance at 8 locations
- Improved data collection and data input and output systems for PRTR at the Entity Ministries of Environment and District Brcko
- Electronic transfer systems to link PRTR database inputs and outputs with necessary electronic systems at National Reference Centres for soil, air, water, National Focal Point for PRTR, Inspectorate, Cantons and Municipalities and enable transfer of data from CD-ROM
- Public access website developed to display this data and provide the minimum outputs required by EPRTR Directive
- Websites for Ministries of Environment at Entity level displaying information about PRTR and emissions within the Entity, and a link to the main PRTR website, in accordance with the outputs required by the EPRTR Directive.
- ToR for follow-up technical assistance and investment project for PRTR prepared

3. Means/ Expertise Required

- 1. Team Leader**
- 2. Industry Long-term Expert**
- 3. PRTR Long-term Expert**
- 4. Pool of short-term experts**
- 5. Training budget**
- 6. Incidentals budget**

Supply Contract

Procurement of the equipment, in the value of 300,000 EUR, to assist inspectorates in monitoring facilities with integrated environmental permit in the industrial sectors and activities where BAT is provided by the intervention.