

CLEARED BY:



Zachary Taylor

UNDP Deputy Resident Representative

Date

Project title: Removing Barriers to Wind Power Development in Belarus

Project number: 00087557

Expected CP Outcome(s): 3.1 Country's capacity to mitigate and adapt to the climate change strengthened

Executing Entity: Ministry of Natural Resources and Environmental Protection of Belarus

CLEARED BY:



S.S. Khrushchou

Deputy Minister of Natural Resources and Environmental Protection of the Republic of Belarus

Date

Description of Activity	Fund	Donor	Executing entity	Account	Planned financial resources, USD	Balance of 2015, USD	Annual outputs	Utilized, USD	Progress in achieving the annual target, %	Difference, USD	General assessment of the activities implementation (brief)
<b>Outcome 1: Secondary Legislation is in place to support wind energy with the support of the project</b>											
<i>1.1: Develop and agree provisions for institutional infrastructure based on the best European practice and policies, in particular for the State RES Cadastre, RES Inventory, and validation systems</i>											
1.1.1					0	0	Activity is planned for 2017-2018	0.00	0	0.00	Activity is planned for 2017-2018
1.1.2					0	1 149.68	1. Analysis of the best practices of implementation of a system to track renewable energy attributes specifically for wind farms is made and a respective report prepared and approved by the MoEnv; 2. Proposals (Terms of reference) for regulatory amendments relating to the administrative procedures on approval of the wind power development projects by the key ministries in accordance with the best international practices are developed and approved by the MNREP; 3. The procedure of permitting and finance agreements making for the wind power projects development by means of interaction of the key governmental bodies and finance institutions is defined; relevant instructions are drafted and provided to the MNREP for review; 4. The information (review) on the state-of-the-art development of the wind energy in Belarus is consolidated and disseminated among the public (posting on the project web site, making part of reports and presentation at the workshops and conferences, etc.).	982.84	0	167	Activity completed in 2015. Final payment. 1. Analysis of the best practices of implementation of a system to track renewable energy attributes specifically for wind farms was made and first draft report was prepared and approved by the MoEnv. 2. First draft report with the proposals for the development of the Terms of reference for regulatory amendments relating to the administrative procedures on approval of the wind power development projects by the key ministries in accordance with the best international practices was developed and approved by the MNREP; 3. The procedure of permitting and finance agreements making for the wind power projects development by means of interaction of the key governmental bodies and finance institutions is defined; relevant instructions are drafted and provided to the MNREP for review. 4. The information (review) on the state-of-the-art development of the wind energy both in the world and in Belarus is consolidated and disseminated among the public (the reports are posted on the web-site; the information was also used for making part of presentations at the inception workshop).
1.1.3					0	0	Activity is planned for 2017-2018	0.00	0	0.00	Activity is planned for 2017-2018
1.1.4					0	0	Activity is planned for 2017-2018	0.00	0	0.00	Activity is planned for 2017-2018
1.1.5					0	0	Activity is planned for 2017-2018	0.00	0	0	Activity is planned for 2017-2018
Gains/losses								474.34		-474	
<b>Total 1.1</b>					<b>0</b>	<b>1 149.68</b>		<b>1 457.18</b>	<b>0</b>	<b>-308</b>	

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<i>Output 1.2: Formulated and enforced Secondary Legislation</i>											
1.2.1.					0	0	1. Detailed economic estimates for potential projects in support of tariff scheme proposals are made to be included in the concept of the cross sectoral strategy on wind power development in Belarus. 2. The concept of the cross sectoral strategy on wind power development in Belarus based on the analysis of the current practice including political motivation, investment mechanisms, available technologies, equipment and success/failure factors is developed and approved by the MNREP. 3. Proposals for participation of the project in international conferences and forums, relating to wind energy to attract additional investments to wind power development in Belarus are prepared; the relevant calendar of events is drafted; 4. The Terms of reference for the WPFi is finalized and the Statute of the WPFi is developed to be included in the tender documentation for the selection of the contractor for designing wind power farms.	-3.60	0	3.60	Activity is completed in 2015 1. The detailed economic estimates for potential projects were made different variants of tariff calculations can be used by the Ministry of Economy to support regulation on stimulating coefficient for wind power developments. 2. The first draft of the concept of the cross sectoral strategy on wind power development in Belarus based on the analysis of the current practice including political motivation, investment mechanisms, available technologies, equipment and success/failure factors is developed. 3. Proposals for participation of the project in international conferences and forums, relating to wind energy to attract additional investments to wind power development in Belarus are prepared; the relevant calendar of events is drafted. 4. The Terms of reference for the WPFi is finalized and the Statute of the WPFi with the analytical note is developed and included in the tender documentation for the selection of the contractor for designing wind power farms.
1.2.2.					0	0	Activity is planned for 2017-2018	0	0	0	Activity is planned for 2017-2018
1.2.3					0	0	Activity is planned for 2017-2018	0	0	0	Activity is planned for 2017-2018
1.2.4					0	0	Activity is planned for 2017-2018	0	0	0	Activity is planned for 2017-2018
1.2.5					0	0	Activity is planned for 2017-2018	0	0	0	Activity is planned for 2017-2018
1.2.6.					0	0	Activity is planned for 2017-2018	0	0	0	Activity is planned for 2017-2018
1.2.7					0	0	Activity is planned for 2017-2018	0	0	0	Activity is planned for 2017-2018
1.2.8					0	0	Activity is planned for 2017-2018	0	0	0	Activity is planned for 2017-2018
<b>Total 1.2</b>					<b>0</b>	<b>0</b>		<b>-3.60</b>	<b>0</b>	<b>3.60</b>	

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<b>1.3: New/Improved Technical Norms and Standards</b>											
<b>1.3.1. WPMI together with the project, will support the introduction of new and improved technical norms by providing the most up to date techniques for wind turbine positioning, wind farm to grid connection inter alia.</b>											
1.3.1.1	62000	GEF	000995	71200 International consultants	15000	0	The international experience for regulation and application of techniques for wind turbine positioning, connection of wind farms to grid is reviewed and conclusions on the possibility of its adaptation in Belarus are made; recommendations related to improvement of technical norms & standards concerning wind energy in the Republic of Belarus are developed; a relevant report is prepared and approved by MNREP.	12 003.32	80.02%	2 996.68	The International CTA has prepared a review of international approaches to regulation and application of techniques for wind turbine positioning, connection of wind farms to grid; a relevant report and a PPT presentation were prepared and approved by the MNREP. The presentation was made at the conference dedicated to wind energy regulatory issues organized by the project on November 17, 2016.
1.3.1.2	62000	GEF	000995	71305 - local consultants	1200	0	Current national technical legal acts on wind power development are analyzed, the relevant report is prepared and approved by the Ministry; the terms of reference for their amendment or/and development of new ones are prepared and approved by the Ministry.	2 436.03	203.00%	-1 236.03	This activity was implemented in broader scope comparing what is stated in the project document. Based on the current situation in energy sector of Belarus in order to tackle the problem of technical standards for wind energy development a more comprehensive analysis of the regulatory framework was required. Thus, not only technical legal acts were analyzed but also other regulatory documents relating to the sphere of wind energy are carefully studied, conclusions on gaps and deficiencies made. The following reports on such analysis were prepared: 1. Report of the analysis of the practical implementation of the requirements specified by the Law of the Republic of Belarus "On renewable energy sources" from 27.12.2010 No. 204-W and the Decree of the President of the Republic of Belarus "On the use of renewable sources of energy" from 5.18.2015 No. 209, as well as regulatory and legal acts adopted in the development of these documents. 2. Report with the proposals (on the rationale for their decision) on amendments to the regulations establishing the quotas for the development of facilities for the use of renewable energy, including: inclusion of these requirements, guaranteeing the implementation of the project in the case of a candidate quota for the construction of renewable energy sources; transparent mechanism for the establishment of quota volumes for the establishment of facilities for the use of renewable energy sources; improved mechanism for implementing the projects without the quota. 3. The report with the analysis of normative legal acts regulating the issues of power transmission, with the identification of the requirements for the transfer of electricity from a renewable energy source to the consumer, including: the case where the owner of a renewable energy source and the consumer are one and the same economic entity; the case where the owner of a renewable energy source and the user are different business entities. 4. Report with the proposals (on the rationale for their decision) on amendments to the normative legal acts in terms of improving and simplifying the procedure for electricity transmission organization from renewable energy source to the consumer. 5. Report with the analysis of normative legal acts regulating the tariff policy in the field of renewable energy, as well as the investment of the Belarusian legislation in this area, including the identification of the provisions affecting the implementation of the projects for the construction of modern wind power equipment. 6. The report of the analysis of regulatory legal acts for the possibility of selling (export) of electricity from renewable sources in neighboring countries, including the European Union. 7. Report with different scenarios of financial incentives for wind power, including: establishment of a fixed amount of the tariff (the calculation of this value) for the purchase of electricity produced by wind turbines; introduction of a green certificate system (or equivalent), including the possibility of including in the settlement of consumers receipt of a line by establishing the consumption of "green" energy with the expectation value of this tariff; introduction of a mechanism to stimulate the development of wind energy in "Belenergo" system; formation of a separate fund for wind power; combination of various financial incentive mechanisms.
1.3.1.3	62000	GEF	000995	72100 - Contractor services - companies (informational services of legal databases)	600	0	The drafts of the technical legal documents for the wind power development are prepared, approved by the MNREP and recommended for the national approval procedure.	315.38	52.56%	284.62	The reports with proposals on development of technical regulatory documents are prepared and approved by the MNREP. These reports contain various options for the development of technical standards, with proper justification of each option.
	62000	GEF	000995	71300 - local consultants	2400	0		1 160.94	48.37%	1 239.06	

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1.3.1.4 Organization of the conference on technical standards in Wind power development	62000	GEF	000995	74200 - Audio Visual & Print Prod Costs	360	0	1. The actual tendencies in technical regulation and standardization in wind power development are presented to and discussed with the stakeholders. 2. The newly developed technical documents are presented to and discussed with the stakeholders. 3. The general information on wind power development is prepared and disseminated.		0.00%	360.00	The conference was held on 17 November 2016. About 60 participants took part in the discussions. All the regulatory developments produced in the above mentioned activities were presented to the public. These presentations caused vibrant discussions and major comments were taken into consideration by the consultants when finalizing their reports. The preliminary results of the De-risking study were also presented at the conference. They were very positively perceived by the representatives of business and IFC. IFC representative expressed their support to the work of the project and invited the project to cooperate on improving investment conditions for the development of wind energy. In the framework of the conference some promotional materials were printed and distributed among the participants (calendars, brochures on wind energy issues).
	62000	GEF	000995	72100 - Contractor services - companies (informational services of icetrade.by)	50	0		63.35	126.70%	-13.35	
	62000	GEF	000995	72100 - Contractor services - companies (conducting conference)	9000	0		4 854.91	53.94%	4 145.09	
	04000	TRAC	000995	72100 - Contractor services - companies (conducting conference)	0	0		4 837.24	0.00%	-4 837.24	
Gains/losses							189.93	%	-189.93		
<b>Total 1.3.</b>					<b>28 610</b>	<b>0</b>		<b>25 861.10</b>	<b>90.39%</b>	<b>2 748.90</b>	
<b>1.4: Wind Private Finance Initiative (WPMI) created and operational</b>											
1.4.1 Finalizing Terms of Reference for WPMI					0	0		0	0	0	The Terms of Reference for the WPMI was completed and included in the tender documentation to select a consultant for the integrated management of the investment project on construction of wind power turbines with the development of pre-project (pre-investment) and project documentation. The Tender was announced (the announcement on the open tender was published on www.icetrade.by №2016- 343940 of 20.05.2016) and on the deadline for the submission of the proposals (23 June 2016) three qualified proposals were received. All three bidders are national consultancy-engineering companies with foreign DIN accredited sub-contractors for wind parameters measurement and analysis. The contract with the selected consultant was signed on 25 August 2016.
1.4.2 Finalizing Terms of Reference for staff and hiring WPMI Staff					0	0		0	0	0	The Terms of reference for the WPMI staff was finalized by company ENECA (consultant for the integrated management of the investment project on construction of wind power turbines with the development of pre-project (pre-investment) and project documentation). Based on the competitive selection principle they announced two vacancies in media. The Director and Assistant for the WPMI are to be hired by 15 December 2016. Before this date, ENECA provided for the administration of the WPMI.
<b>Total 1.4.</b>					<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	
<b>TOTAL outcome 1:</b>					<b>28 610</b>	<b>1 149.68</b>		<b>27 314.68</b>	<b>91.78%</b>	<b>2 445.00</b>	
<b>Outcome 2: Reduce regulatory risks for investments in wind power in Belarus to the point that at least 5 wind farms are developed, financed, and eventually constructed</b>											
<b>2.1: Awareness-raising program for decision makers</b>											
2.1.1	2.1.1 The Project Steering Committee meetings will include key decision makers and will emphasize that wind energy can be viable in Belarus.  2.1.1.1. Developing a communications strategy, including awareness-raising activities, and tentative training and study trips programme				0	0	1. The major informational events and activities of the project are defined for the period of 2015-2016; 2. The training programme for decision makers on the issues of wind power development is developed, in which the number and themes of the workshops, the scope of topics for study are defined, the number of participants, potential venue and duration are identified, the proposals for the qualification of trainers are developed. 3. The tentative agenda of study trips for 2016, including venues, participants, duration and scope of issues for study is drafted and approved by the MNREP.	0	0	0	Activity is completed in 2015. 1. The major informational events and activities of the project are defined for the period of 2015-2016, the schedule of the events drafted, including financial plan. 2. The training programme for decision makers on the issues of wind power development is developed, in which the number and themes of the workshops, the scope of topics for study are defined, the number of participants, potential venue and duration are identified, the proposals for the qualification of trainers are developed. 3. The tentative agenda of study trips for 2016, including venues, participants, duration and scope of issues for study is drafted and approved by the MNREP., including countries, institutions and installation to be visited, the number of participants, the scope of topics for study. AWP 2016 provides financial resources for the study trips according to the project budget.
2.1.2	Through the activities outlined in Outcome 3, WPMI will increase investment activity from both local and foreign developers and investors which will heighten awareness amongst key decision makers.				0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018

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2.1.3.2 Study trips to at least two European countries with highly developed wind power sector for a group of decision makers	62000	GEF	000995	72100 - Contractor services - companies (organization of study tours)	56 000	0	1. The Detailed planning of two study tours for a group of decision makers including venue, list of topics and assignments, forms of training and trainers and logistics for two study tours to two European countries with high level of wind power development. 2. At least 6 decision makers are familiarized with the best practices of wind power development.	29 425.90	52.55%	26 574	Study tour to Hamburg (Germany) In the period from 26.09.2016 to 30.09.2016 a study tour on the development of wind energy was held in Hamburg (Germany). For the organization of the trip an open tender was announced for the provision of services for the organization of two study visits (2 lots) (initial announcement was made on 17.06.2016, proposal submission deadline was extended four times due to a lack of bidders, the latter was on 12.08.2016). Since not a single proposal was submitted for the first lot, in consultation with UNDP, it was decided that PIU should organize such a trip. Therefore the PMU organized a study tour for decision makers in Germany, combining meetings and presentations with a visit to the international exhibition for wind energy in Hamburg (WindEnergy Hamburg 2016). The Belarusian delegation consisted of 8 people - representatives of the Ministry of Environment and its subordinate organizations, the Ministry of Energy, the Department of Energy Efficiency, the project management unit. An international consultant was hired to provide training and meetings, visits to exhibitions, including obtaining passes for the Belarusian delegation and exhibitor toolkits free of charge; as well as to ensure free access to the wind farm and the rise to the top of the wind turbine. A national consultant was also hired to provide translation of materials in preparation for the trip to / from German, as well as logistical support to the participants in Germany. During the study tour the participants took part in the following events: a visit to the international exhibition for wind energy in Hamburg (WindEnergy Hamburg 2016); meeting with the following companies and organizations: "Furlender Vindtehnolodzhi" (Fuhrlander) Kramatorsk, Ukraine; Vestas (Denmark); GeoNet Gmbh (Germany), the World Wind Energy Association (World Wind Energy Association (WWEA)), its Secretary General Stefan Gzengaarom; Wind Prospect; Siemens Wind Power; Nordex; Windguard; Ukrainian Wind Energy Association. The study tour allowed to: - Compare the development of the Republic of Belarus in the field of wind energy with the world level; - Get acquainted with the latest achievements in the field of wind power; - Evaluate the technical proposals of producers of wind energy equipment; - Receive more information about the stages of construction of wind power plants in the process of negotiations; - Establish partnership contacts with international Wind Energy Association, Ukrainian Wind Energy Association and other companies and organizations. As part of the study tour, Belarusian specialists visited a wind power plant near Düsseldorf and rose to the wind turbine of installed capacity of 3.0 MW, with the height of the gondola 100 m and rotor diameter of 120 m.
	62000	GEF	000995	71200 International consultants	0	0		6 016.48	0.00%	-6 016	
	62000	GEF	000995	71305 - local consultants	0	0		4 154.24	0.00%	-4 154	
	62000	GEF	000995	71600 - International travel	0	0		13 806.66	0.00%	-13 807	Study tour to Denmark for wind power development  The second trip was held from 16 to 20 October 2016. The Belarusian delegation consisted of 8 people - representatives of the Ministry of Environment, Ministry of Energy, the Department of Energy Efficiency, Ministry of Economy, the project management unit. NGO. The delegation was headed by Deputy Minister of Natural Resources and Environmental Protection of the Republic of Belarus, National Project Coordinator. Besides, the delegation included the First Deputy Director of the Department of Energy Efficiency, the heads of departments of the Ministry of Environment and the Ministry of Economy. The Belarusian delegation took part in negotiations with the management of the export-credit agency Denmark EKF (Mr. Christian Olgaardom, Deputy Director General of the export-credit agency, Ms. Regina Ladenburg, director of corporate clients department, as well as Ms. Anna Maria Owie, the chief underwriter of the export credit agency); representatives of the company's management "Vestas" - Mr. Inigo Sabater, vice-president of the company and others, as well as a senior manager of the government agency of the Ministry of energy and climate of Denmark, Mrs. Brander Annette. The Belarusian delegation visited the wind farm of Middelgrunden in Copenhagen. The presentation was made by one of its founders, a member of the cooperative owners, PhD Hans Christian Sørensen. As a result of the trip, a report containing draft orders to governmental bodies for the development of bilateral cooperation with Denmark on wind energy was prepared and sent to the Council of Ministers of Belarus. These orders were approved and now are being implemented.
2.1.3.3. Preparation of informational materials on wind energy (articles, review, factsheets etc.)	62000	GEF	000995	71200 International consultants	5 000	0	1. Key Training Materials and Awareness Products related to wind energy, including contribution to curricula to universities and technical institutes related to wind energy are prepared and approved by the MNREP for further awareness raising activities. 2. At least 20 articles; 10 reviews, 4 fact sheets are prepared and posted on the project web-site and disseminated via Internet.	6 910.69	138.21%	-1 911	All in all 150 articles, factsheets, reviews, news releases, awareness products etc. have been prepared and published at the website windpower.by. As for the university curricular, in the course of the project implementation the international consultant (CTA) and the project manager had several meetings with the key educational establishments of Belarus preparing specialist in renewables. Based on these discussions and the consultant's substantiated opinion there is no need to amend the university curricular on the issues of wind energy development. Instead a concept of training programme for specialists (designer, engineers, electricians, technicians) was developed to be implemented in the framework of the project in 2017-2018.
	62000	GEF	000995	71305 - local consultants	10 200	0		11 210.50	109.91%	-1 011	
Gains/losses								94.91			
<b>Total 2.1.</b>					<b>71 200</b>	<b>0</b>		<b>71 619.38</b>	<b>100.59%</b>	<b>-419</b>	

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<b>2.2: Specialized local engineering</b>											
2.2.1					0	0	The activity is planned for 2017-2018	0		0	The activity is planned for 2017-2018
Total 2.2.					0	0		0	0	0	
<b>2.3: Introduce RE related curricula at Universities</b>											
2.3.1					0	0	The activity is planned for 2017-2018	0		0	The activity is planned for 2017-2018
Total 2.3.					0	0		0	0	0	
<b>2.4: Completed support for ancillary services</b>					0	0		0	0	0	
<b>2.5: Developed and published manuals</b>											
2.5.1.	62000	GEF	000995	71200 International consultants	25 000	0	De-Risking Study Report on Wind Energy in the Republic of Belarus is prepared, approved by the MNREP and disseminated among the stakeholders.	16 932.22	67.73%	8 068	De-risking study has been implemented by three international consultants with the support of the PIU. In the framework of preparation of de-risking study report in August 23-25, 2016 interviews with the current and potential investors in wind energy sector in Belarus were held. 10 people representing mostly national and also international companies interested in pursuing wind energy projects were invited to the interview session. The questionnaire was developed based on the UNDP methodology using the DREI standard interview material, which has been tailored to the Belarusian wind energy context and translated in the Russian language. The interviews revealed a number of barriers for private wind energy investment in Belarus, which include but are not limited to: Quota tendering: Some interviewees mention a lack of transparency in the quota tendering process. Market Outlook: The majority of interviewees mention significant uncertainties related to the outlook of wind energy and renewable energy sources in general due to the planned commissioning of a nuclear power plant in the coming years. Tariff fluctuations: The wind energy tariff consist of two components, a coefficient which can be locked in via a quota and a variable component (basic tariff) which is a function of the price for imported gas and oil. Thus, there is a risk that the basic tariff will be reduced in the coming years. Interviewees mention that the basic tariff has been reduced in the past and planned additional nuclear power generation capacities are seen to likely to influence the tariff setting in the future are further intensifying uncertainties related to future tariff development. In addition, interviewees explained that the coefficient, or in other words the fixed part of the tariff for wind energy, is determined based on a presidential decree, which, in case this should be necessary, could be overruled by another presidential decree in the future. Lack of standard PPA: Interviewees confirm the lack of a standardized PPA and PPA negotiations are done bilaterally between developers and off-takers. However, the majority of interviewees did not see this as a major problem but indeed favored the introduction of a standard PPA document on federal levels. Among the interviewees there were also representatives of the financing institutions, such as IFC and EBRD. The preliminary results of the study were presented to wide stakeholders at the conference on November 17, 2016. Final report is to be submitted by the end of 2016 and the official presentation of the published report is expected at the beginning of 2017.
	62000	GEF	000995	71600 - International travel		0		1 688.75	0.00%	-1 689	
2.5.2					0	0	The activity is planned for 2017-2018	0		0	The activity is planned for 2017-2018
2.5.3					0	0	The activity is planned for 2017-2018	0		0	The activity is planned for 2017-2018
Total 2.5.					25 000	0		18 620.97	138.21%	6 379	
<b>TOTAL outcome 2:</b>					<b>96200</b>	<b>0</b>		<b>90240.35</b>	<b>93.80%</b>	<b>5959.65</b>	
<b>Outcome 3: Wind Energy Project Technical Assistance Facility is established to support the WPF investment in and the development of documentation for at least 25 MW of wind power</b>											
<b>3.1: Completed support provided for potential site developments</b>											
3.1.1.	62000	GEF	000995	72805 - computer equipment	4 000	0	The WESU is fully technically equipped for the implementation of their duties and functions.	0	0.00%	4 000	In 2016 WESU did not need computer equipment; they requested to postpone its procurement until 2017.

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3.1.2	Finalize the legal form and administrative criteria of the WPFIL.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	0	0	The legal status, scope of work and goals of the WPFIL are finalized. The WPFIL is fully operational.	1 838.59	0.00%	-1 839	WPFIL was legally formed on 11 October 2016 as LLC "Wind Private Finance Initiative". This legal entity was founded by company ENECA (selected as a consultant for the integrated management of the investment project on construction of wind power turbines with the development of pre-project (pre-investment) and project documentation) and Belarusian Research Center "Ecology". The company was formed in accordance with the legislation of the Republic of Belarus and has the endorsed statute, juridical address, director and assistant director.
		62000	GEF	000995	71305 - local consultants	0	0		1230.22	0.00%	-1 230.22	
3.1.3	Finalize the agreement between the WESU and the WPFIL in the manner most conducive to operation in current conditions in Belarus.					0	0	The draft of the cooperation agreement between MNREP and WPFIL is prepared and provided to the SC for consideration.	0	0.00%	0	WPFIL was formed as a joint venture of the consultancy company and the organization subordinate to the Ministry of Environment. The major provisions defining relationship between the Ministry and WPFIL are stated in the contract of the Ministry and ENECA, as well as in the Statute of WPFIL. Additional agreement between the Ministry (as WESU is in the framework of the Ministry) and WPFIL is not necessary.
3.1.4.	3.1.4. Conduct a tender to select an engineering firm to form the WPFIL using generally accepted international standards for such tenders.	62000	GEF	000995	71305 - local consultants	3 000	3 557.90	1. The tender documentation for the competitive selection of the contractor for the development of the wind farms projects and establishment of the WPFIL is developed. 2. The contractor for the development of the wind farms and form the WPFIL is identified.	11545.25	176.05%	-4 987	Activity is completed The international Tender was announced (the announcement on the open tender was published on www.icetrade.by №2016- 343940 of 20.05.2016) and on the deadline for the submission of the proposals (23 of June, 2016) three qualified proposals were received. All three bidders are national consultancy-engineering companies with foreign DIN accredited sub-contractors for wind parameters measurement and analysis. The contract with the selected consultant was signed on August 25th, 2016.
		62000	GEF	000995	71200 International consultants	10 000	0		8 009.61	80.10%	1 990	
3.1.5.	Seek additional contributors to the funding of the WPFIL in order to extend the range of WPFIL capabilities.	62000	GEF	000995	71300 - local consultants	3 600	0	The report about the potential investors as well as financing organizations interested in cooperating with the Project on development of the wind farms is developed and approved by MNREP.	3 433.90	95.39%	166	The report about the potential investors as well as financing organizations interested in cooperating with the Project on development of the wind farms is developed by the international consultant with the support of the national consultants. The report is approved by MNREP.
		62000	GEF	000995	71200 International consultants	5 000	0		5 004.99	100.10%	-5	
		62000	GEF	000995	71600 - InternationalTravel		0		3 048.14	0.00%	-3 048	
3.1.6.	WPFIL screens all of the Cadastre sites and selects target sites based on the sites that can achieve the lowest possible energy rates.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	10 000	0	The Cadastre sites are screened and the sites for further assessment for wind farms development are identified. The relevant report with justification of the selected sites is prepared and approved by the MNREP.	85 137.93	851.38%	-75 138	In accordance with the contract, company ENECA undertook a review of the potential sites for wind farms development. As a results of screening they have prepared a list of 43 sites with detailed description for further assessment and ranking. To verify the screening results a monitoring trip was undertaken by the national consultant on design, use, servicing and monitoring of wind turbines. All in all 16 sites were visited and verified. The international consultant (CTA) revised the report on screening and approved the methodological approach to screening and its results.
		62000	GEF	000995	72100- Contractor services - companies (transportation services)	300	0		546.80	182.27%	-247	
		62000	GEF	000995	71300 - local consultants	4 800	0		3 742.90	77.98%	1 057	
		62000	GEF	000995	71200 International consultants	5 000	0		0	0.00%	5 000	
3.1.7.	As part of the pre-feasibility screening, WPFIL will gain preliminary clearance from the Ministry of Defence, Ministry of Communication and Informatization and other relevant agencies for sitting.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	5 000	0	1. The sites preliminary selected for wind farms development are considered and cleared by the Ministry of Defence, Ministry of Communication and Informatization and other relevant governmental bodies.	0	0.00%	5 000	In the framework of the contract company ENECA received approval of the selected sites from all governmental bodies and local authorities that are needed at this stage of development.
3.1.8.	WPFIL together with WESU will also seek to work through the established procedures with the Ministry of Defense to seek appropriate mitigation for the risks related to obtaining clearance from the Ministry of Defense 3.1.8.1. Development of guidelines for wind power developers on prefeasibility procedures of sites screening and mitigation of risks related to approval of the sites by the relevant governmental bodies	62000	GEF	000995	71300 - local consultants	3 600	0	1. The guidelines for wind power developers on prefeasibility procedures of sites screening and mitigation of risks related to approval of the sites by the relevant governmental bodies are developed.	1 403.94	39.00%	2 196	The guidelines for wind power developers on prefeasibility procedures of sites screening and mitigation of risks related to approval of the sites by the relevant governmental bodies are developed; posted on the web-site windpower.by, published as a brochure and disseminated among the stakeholders.

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3.1.9.	Final selection of the sites for development and obtaining of clearances and permits for the construction.	62000	GEF	000995	71300 - local consultants	3 600	0	1. Final sites for wind data collection are identified; all relevant permits necessary for construction are obtained.	4 063.28	112.87%	-463	<p>ENECA devised a special methodology for the selection and ranking of the sites for wind energy development. In accordance with this methodology 5 major and 3 reserve sites were selected. They are as follows:</p> <ol style="list-style-type: none"> <li>1. Grodno region, Novogrudok district, village Yanovichi</li> <li>2. Grodno region, Smorgon district, village Starye Boruny</li> <li>3. Vitebsk region, Liozno district, village Veleshkovichi</li> <li>4. Vitebsk region, Sennenskiy district, village Veino</li> <li>5. Vitebsk region, Gorodok district, village Zagoryane</li> </ol> <p>Reserve sites:</p> <ol style="list-style-type: none"> <li>1. Grodno region, Novogrudok district, village Bolshie Karnyshi</li> <li>2. Grodno region, Novogrudok district, village Volkovichi</li> <li>3. Vitebsk region, Glubokski district, village Kovali.</li> </ol> <p>The clearances and permits required for pre-development work on the sites are obtained. Construction permits will be obtained later when it is required by the project design and development procedure.</p>
		62000	GEF	000995	71200 International consultants	15 000	0		9 988.05	66.59%	5 012	
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	30 000	0		13 752.27	45.84%	16 248	
		62000	GEF	000995	71600 - International Travel	1 500	0		1 529.62	101.97%	-30	
		62000	GEF	000995	72100- Contractor services - companies (transportation services)	3 300	0		122.87	3.72%	3 177	
3.1.10.	Transmission review of selected sites.	62000	GEF	000995	71300 - local consultants	2 400	0	The possibility of connection of the future wind power installations to electrical grid is assessed. The relevant report with the technical, regulatory and financial analysis is prepared and approved by the MNREP.	4 713.03	196.38%	-2 313.03	The initial data on possibilities of connection of the future wind power installations to electrical grid is collected. The data are being processed, the final report will be available in January 2017.
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	20 000	0			0.00%	20 000	
		62000	GEF	000995	71600 - Local Travel	1 000	0		0	0.00%	1 000	
		62000	GEF	000995	72100- Contractor services - companies (transportation services)	1 800	0		0	0.00%	1 800	
3.1.11.	Securing permission for the selected sites;; isntalment of meteorological towers of 98 m in height (or other equipment); wind parameters measurment.	62000	GEF	000995	71300 - local consultants	4 800	0	<ol style="list-style-type: none"> <li>1. The meteorological towers and wind measuring equipment are procured and transferred to the Wind farms design contractor.</li> <li>2. Meteorological towers with wind measuring equipment are installed at least on 2 approved sites.</li> <li>3. The necessary permits for the installment of wind measuring equipment are obtained.</li> </ol>	5 201.40	108.36%	-401	<p>The wind measurement equipment with meteorological tower was delivered on 31 December 2016 according to the contract with "Avanta", Ltd. signed on December 2, 2016. The contractor was selected in the course of the open international tender announced on 10.10.2016 №2016- 380996 at icetraide.by. Additionally potential bidders were invited to the tender with direct letters of the Ministry. The consultancy company ENECA have almost completed the design project for the installation of the wind measurement equipment on the selected sites (5 sites). They have also provided storage facilities for these equipment before its installment. The installment of the equipment is expected within January-February 2017.</p>
		62000	GEF	000995	71200 International consultants	20 000	0		5 931.76	29.66%	14 068	
		62000	GEF	000995	72200 - Equipment (meteorological towers)	210 000	0		191 507.17	91.19%	18 493	
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	50 000	0			0.00%	50 000	
		62000	GEF	000995	71600 - Local Travel	500	0		0	0.00%	500	
		62000	GEF	000995	73400 - Equipment maintenance	1 000	0		0	0.00%	1 000	
		62000	GEF	000995	72100- Contractor services - companies (transportation services)	1 800	0		0	0.00%	1 800	
		62000	GEF	000995	72100 - Contractor services - companies (informational services of icetraide.by)	50	0		0	0.00%	50	

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3.1.12.	WPFPI would begin the permitting, Power Purchase Agreement, and grid connection processes with the relevant agencies.					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
3.1.13.	Working with WPFPI on a preliminary site layout that includes flexibility on turbine choice.					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
3.1.14.	Environmental report for Investors.					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
3.1.15.	The Project jointly with Wind Energy Support Unit performs Pro Forma analysis on the selected projects and calculates the minimum tariff required to support the financing and construction of all of the selected projects including those from private developers.	62000	GEF	000995	71300 - local consultants	3 600	0	Several tariff options are calculated and the proposals for the inclusion in the investment agreements are made. The relevant report is prepared and approved by the MNREP.	3 543.25	98.42%	57	The comprehensive report on the proposals for the tariff as well as regulatory proposals for the methodology of definition of the tariff is developed, discussed with the stakeholders at the conference, submitted to MNREP and is approved.
		62000	GEF	000995	71200 International consultants	10 000	0		5 942.90	59.43%	4 057	
3.1.16.	The Project jointly with Wind Energy Support Unit negotiates draft Investment Agreement with the Ministry of Economy using the tariff calculated in 3.1.15 above and co-ordinates with other relevant ministries.					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
3.1.17	After collecting one year of wind data, WPFPI will provide a financeable report that combines the on-site data with the existing long-term data (suitable for bank debt financing).					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
3.1.18	Preparation of Information Memorandum					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
3.1.19	Consultant for tender of "Construction Ready" projects					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
3.1.20	The Project, WPFPI and the Wind Energy Support Unit will tender the Pre-Investment Assets to investors.					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
	Gains/losses								412.26	0.00%	-412	
<b>Total 3.1.</b>						<b>434 650</b>	<b>3 557.90</b>		<b>371 650.13</b>	<b>85.51%</b>	<b>66 557.77</b>	
<b>3.2 Identify and evaluate available public and private debt and equity financing for above site developments</b>												
3.2.1	Regular discussions and outreach with potential foreign and domestic developers and investors.	62000	GEF	000995	71300 - local consultants	3 600	0	1. Minutes and reports of the meetings held with the potential foreign and domestic developers and investors. proposals for the cooperation forms. 2. The most probable partners of WPFPI projects are identified; the relevant report is prepared and approved by the MNREP.	4788.48	133.01%	-1 188	Meetings with the companies interested in the wind power development have been held. These were such companies as "Guris" (Turkey), "Conte" (Belarus), Wind 4 Energy Nordic AB, the relevant minutes and proposals for possible cooperation have been prepared and reported to the National Coordinator. The draft criteria for the pre-qualification of the potential investors in WPFPI projects were developed and are to be cleared by the MNREP. The working contacts and partnership is established with IFC on the issues of financing of the wind energy projects in Belarus. On November, 17 2016 in the framework of the conference organized by the Project it was agreed to join efforts with IFC on pursuing the introduction of the PPA in the practice of the contract relationship of the energy producer with Belenergo, as well as introduction of the stable feed-in-tariff for the investor in wind energy. On December 16, the dialogue with IFC continued at the workshop organized by IFC with the participation of all key national stakeholders.
		62000	GEF	000995	71200 International consultants	5 000	0		5008.25	100.17%	-8.25	
3.2.2	The Project together with WPFPI and WESU will work with International Financial Institutions to identify and evaluate debt solutions.					0	0	The activity is planned for 2017-2018		0.00%	0	The activity is planned for 2017-2018
3.2.3	The Project together with WPFPI and WESU will provide term sheets for debt, as part of the Tenders, for the above projects based on international market terms and conditions.					0	0	The activity is planned for 2017-2018		0.00%	0	The activity is planned for 2017-2018
3.2.4	The Project together with WPFPI and WESU will prepare term sheets for debt for projects that are currently being developed by developers such as Triple and Ecotech based on international market terms and conditions.					0	0	The activity is planned for 2017-2018		0.00%	0	The activity is planned for 2017-2018
	Gains/losses								19.50	0.00%	-19.50	
<b>Total 3.2.</b>						<b>8 600</b>	<b>0</b>		<b>9 816.23</b>	<b>114.14%</b>	<b>-1 216.23</b>	
<b>3.3: Completed support for the preparation of development work on the targeted sites</b>												
3.3.1	Completing the investment justification stage and preparation of pre-feasibility studies for construction and commissioning of wind energy plants in excess of 25 MW					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
<b>Total 3.3.</b>						<b>0</b>	<b>0</b>		<b>0</b>	<b>0.00%</b>	<b>0</b>	
<b>TOTAL outcome 3:</b>						<b>443 250</b>	<b>3 557.90</b>		<b>381 466.36</b>	<b>85.38%</b>	<b>65 341.54</b>	
<b>Outcome 4: At least 5 wind farm projects are successfully developed and the Wind Energy Support Unit continues to operate past the lifetime of the project</b>												
<b>4.1: Validation of data in existing Wind Atlas of Belarus</b>												
4.1.1	Site specific wind studies for at least (5) project sites will be used to validate the existing Wind Atlas of Belarus.					0		The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
<b>Total 4.1.</b>						<b>0</b>			<b>0</b>	<b>0.00%</b>	<b>0</b>	

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<b>4.2: Completed Web portal for the project</b>											
4.2.1	62000	GEF	000995	72105 Contractor services - companies	3 000	2 838.26	The project website is developed and operational.	3 965.34	67.92%	1 872.92	The web-site windpower.by is fully operational, contains information on wind energy in general and on the project implementation. The web-site is bi-lingual. The number of visitors is increasing each month based on statistics. The web-site is also promoted through social media.
	62000	GEF	000995	71300 - local consultants	12 000	0		12 560.06	104.67%	-560.06	
4.2.2.					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
4.2.3.					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
4.2.4					0	0	The activity is planned for 2017-2018	0	0.00%	0	The activity is planned for 2017-2018
Gains/losses								400.74	0.00%	-400.74	
<b>TOTAL outcome 4:</b>					<b>15 000</b>	<b>2 838.26</b>		<b>16 926.14</b>	<b>112.84%</b>	<b>912.12</b>	
<b>Project management</b>											
Project management	62000	GEF	000995	71810 - Contractor services - individuals long term	21810		1. The Project Steering Committee is exercising control and monitoring over the project implementation as well as compliance with the established quality standards, deadlines and budget limits. 2. The target indicators defined in the project documents are attained. 3. Reports required by the Letter of agreement and the national regulation of the technical assistance are duly prepared and submitted to the MNREP, UNDP and the Ministry of Economy. 4. The data required for the update of the project implementation in ATLAS are prepared and submitted to UNDP. 5. The draft of the AWP for 2017 is developed and approved by the MNREP and UNDP.	21 771.10	99.82%	38.90	The activity is completed 1. The PSC meets at least twice a year. The first meeting was held on July 14, 2016. The second meeting is to be held in December 2016. 2. So far the project is on the way to meet the target indicators set in the project. 3. The reports on the project implementation have been prepared and submitted to the Ministry of Environment, Ministry of Economy and UNDP. 4. The data required for the update of project implementation in ATLAS were submitted. 5. The draft of the AWP 2017 is developed.
				72200 - Furniture		465		-0.29	-0.06%	465.29	
				72220- communication services	270	560.30		200.10	24.10%	630.20	
				72505 - stationery	200			-2.86	-1.43%	202.86	
				73310 - Project accounting software	900	271.80		1 132.50	96.65%	39.30	
				74559- Repayment of UNDP expenses	4500			1 476.23	32.81%	3 023.77	
				Gains/Losses				192.99	0.00%	-192.99	
	04000	TRAC	000995	71810 - Contractor services - individuals long term	35 565	13.14		35 706.05	100.36%	-127.91	
				74110 - Professional Services	6 468			1 467.39	22.69%	5 000.61	
				72220- communication services				7.52	0.00%	-7.52	
				Gains/Losses			124.07	0.00%	-124.07		
<b>Total Project Management</b>					<b>69 713</b>	<b>1 310.24</b>		<b>62 074.80</b>	<b>87.40</b>	<b>8 948.44</b>	
<b>TOTAL</b>					<b>652 773</b>	<b>8 856.08</b>		<b>578 022.33</b>	<b>87.36</b>	<b>83 606.75</b>	

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