

CLEARED BY:

UNDP Deputy Resident Representative Zachary Taylor

Date

Project title: Removing Barriers to Wind Power Development in Belarus

Annual Project Report 2017

Project number: 00087557/00075091

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:

Alexander N. Korbut  
 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 2016, 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>											
<b>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</b>											
1.1.1	62000	10003	MNREP	72100 - Contractor services - companies	7 970	0	The concept of updating the software product of the State Cadastre of Renewable Energy Sources with a detailed description of each section of the State Cadastre of Renewable Energy Sources has been developed, and a schedule has been proposed for the implementation of works on updating the software product of the State Cadastre of Renewable Energy Sources.	7 711,29	96,75%	258,71	The implementation of the activity on improvement of the State Cadaster of Renewable energy sources was suspended for almost 7 months. The reason was that the access to the Cadaster was blocked by the initial developer of the software (RUERE Software Applied Systems Institute), thus it was not possible to open a tender. The relevant changes on the time of implementation and the planned budget were brought to the revised AWP 2017 and approved by the Steering Committee of the Project. In the end the tender was announced on August 11, 2017. In 2017 the first stage of the works was completed mainly the following was performed by the contractor (RUE "BeIRC "Ecology"): analysis of the operability of the information resource and the identification of non-functioning elements in the existing Cadaster; analysis of posted information, identification of missing data; analysis of the best world experience in the formation and visualization of such information resources; development of the concept of updating the software product of the State Cadastre of Renewable Energy Sources; development of technical specifications for software development (modernization, update) of each of the sections of the state cadastre of renewable energy sources; description of the algorithm for collecting and filling the missing information necessary to fill the State Cadastre of renewable energy sources; development of a schedule of work on updating the software product of the State Cadastre of Renewable Energy Sources. The relevant report was prepared and submitted to the MNREP. The MNREP approved the report.
1.1.2					0	0,00	Activity was completed in 2015.		0,00%	0	Activity was completed in 2015. Final payment. Funds utilized refer to the deliverables received and approved for payment in 2015, while actual final payment was made in early 2016.
1.1.3	62000	10003	MNREP	71200- International consultants	20 020	0	1. A review of international experience on certification of energy produced by renewable sources has been prepared, the relevant report has been approved by the Ministry of Natural Resources. 2. The concept of a "green certificate" for the energy produced by RES was developed. 3. Proposals have been prepared on the development of the certification system for green energy and the carbon market in Belarus, as well as the development of regulatory legal acts with a view to developing a certification system for green energy. 4. Proposals on the legal documents development providing for functioning of the system of certification of energy produced by renewable sources are developed and agreed by the stakeholders.	5 992,89	29,93%	14 027	The activity was implemented by a team of three consultants - two local consultants and one international consultant for the development of the system of "green" energy certification and "carbon" market. The selection of the international consultant took considerable time as the Project experienced difficulties with finding a proper international consultant for the task - in spite of wide circulation of the information among the organizations and potential candidates, insufficient feedback was received. Finally the PIU managed to obtain the minimum number of qualified CVs to proceed with the selection. Selection was finalized at the beginning of July. The implementation of the activity started from a meeting in the Ministry of Taxes and Tax Collection to discuss the development of a certification system for green energy and the creation of a carbon market with the participation of the representatives of the Ministry of Natural Resources and the Ministry of Taxes – major stakeholders. In the reporting period, the following reports were developed, submitted to MNREP and approved by the latter: 1. The report with the analysis of legal acts regulating energy, finance and environmental protection with the purpose of determining the readiness of the legal field of the Republic of Belarus for the development of the certification system for "green" energy. 2. Report with the analysis of legal acts governing energy, finance and environmental protection with the aim of determining the readiness of the legal framework of the Republic of Belarus to create a carbon market. 3. Report with proposals for the development of a certification system for green energy in Belarus. 4. Report with proposals for the creation of a carbon market in Belarus. 5. Report with an analysis of international experience of environmental taxation, practices of applying environmental and other payments related to the results of active human use of the natural environment in the course of economic activity. 6. A report with the proposals for the development of the legal acts (with the justification of the need for adoption and other related documents) on improving the management of the taxation of environmental activity in the Republic of Belarus. The international consultant lingered with the submission of the reports and did not deliver them on time. Nevertheless, the report "Global Overview of Greenhouse Gas Emissions Trading Systems" was submitted and approved by MNREP, while the other two due in 2017 were not delivered and approved by MNREP.
	62000	10003	MNREP	71300 - Local consultants	7 200	0		4 108,15	57,06%	3 091,85	

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1.1.4	Provide training for the WESU on maintaining this system	62000	10003	MNREP	72100 - Contractor services - companies (training organization)	15 000	0	Events are organized and held in Austria for the training of 13 specialists from the Ministry of Natural Resources, Ministry of Energy and other stakeholders, as well as national consultants working in the framework of activity 1.1.3. (Altogether 10 people) in the issues of certification of energy produced by RES and creation of a carbon market.	6 327,60	42,18%	8 672	In the period of 28.11.2017-02.12.2017, 13 representatives of the Ministry of Environment, Ministry of Energy, Department of Energy Efficiency, Ministry of Taxation, Ministry of Justice, NGO "Green Economy" as well as the national consultants of the project for the development of the system of "green" energy certification and "carbon" market visited Austria and raised their proficiency level and increased their knowledge in the following issues: state regulation of renewable energy in Austria; forming tariffs for "green" energy; system of certification of green energy in Austria; creation and functioning of the carbon market; functioning of the mechanism of carbon financing; integration of wind energy into the energy system; distribution of electricity; forecasting the generation of electricity from the wind; accumulation of electricity from RES, including through the use of electric transport. The delegation also comprised high level decision makers – Deputy Minister of Natural Resources and Environment Protection of the Republic of Belarus, Deputy Minister of Energy, Director of Department of Energy Efficiency of the Republic of Belarus. As a result of this study tour the hosting organization – Austrian Energy Agency and the Belarusian delegation agreed to continue cooperation and prepare and sign a Memorandum of Understanding in 2018. The Austrian party also got interested in the project and expressed their investment interest.
		62000	10003	MNREP	71300 - Local consultants	1 000	0		1 178,94	117,89%	-179	
		62000	10003	MNREP	71600 - International travel	28 000	0		23 961,89	85,58%	4 038	
1.1.5	Provide educational materials to market participants explaining the value of having such a system in place					0	0	Activity is planned for 2018	0,00	0,00%	0	Activity is planned for 2018
Gains/losses									17,70	0,00%	-18	
<b>Total 1.1</b>						<b>79 190</b>	<b>0,00</b>		<b>49 298,46</b>	<b>62,25%</b>	<b>29 891,54</b>	
<b>Output 1.2: Formulated and enforced Secondary Legislation</b>												
1.2.1.	Preliminary economic estimates, in cooperation with the WESU, for WPFJ projects in support of tariff scheme proposals					0	0	Activity was completed in 2015.	0,00	0,00%	0,00	Activity was completed in 2015
1.2.2.	The Project jointly with WESU will demonstrate that the suggested tariff levels are required and sufficient to incentivize the desired level of construction by benchmarking the economic calculations to European benchmarks (with the addition of appropriate premiums for country risk)					0	0	Activity is planned for 2017-2018	0	0,00%	0	Activity is planned for 2018
1.2.3	The Project jointly with WESU will develop and present projects from WPFJ to the Ministry of Economy with suggested tariff schemes.	04000	00012	MNREP	71300 - Local consultants	900	0	The tariff for the wind power projects is calculated based on the RAB-method taking into account concrete data of the projects already implemented in the Republic of Belarus. 2. Based on the results of such calculation the recommendations on the tariff methodology for the Ministry of Economy and Ministry of Antimonopoly Regulation and Trade of the Republic of Belarus are prepared.	886,16	98,46%	13,84	The draft of the legal act (with the justification of the need for adoption and other related documents), approving a methodological document on the formation of prices (tariffs) for electricity produced using renewable energy sources and proposals for amending the Law of the Republic of Belarus "On Renewable Energy Sources" and other legislative acts as necessary were developed and submitted to the MNREP. The MNREP approved of the reporting documents and are about to send the developed drafts to the Ministry of Antimonopoly regulation and Trade for the latter to submit it to the Council of Ministers for adoption. The tariff for the wind projects developed in the project was calculated using the RAB-methodology.
1.2.4	The Project jointly with WESU will negotiate with private developers, including women, for the inclusion of private projects into the WPFJ Project Pool	04000	00012	MNREP	71600 - Local travel	650	0	1. Negotiations with the companies implementing the projects on wind energy are held to increase the number of potential investors to take part in the auction on pre-investment assets for the wind energy projects. 2. Minutes of such meetings are prepared and approved by MNREP.	0,00	0,00%	650,00	The cooperation with the investment company Nemera Capital Group (Great Britain) and wind energy development company Windmatik (Poland) was established. The meeting at the Ministry with the directors of these companies was held on 29 March 2017. One of the sites selected for the future WPFJ projects was demonstrated to the potential investors. The minutes of the meeting and the field trip report were prepared and approved by the MNREP. WPFJ and Windmatik negotiated the memorandum of understanding to include the project of this private investors in the pool of WPFJ projects. Memorandum between the WPFJ and Windmatik was signed. To further invigorate investment activity the project was working on expanding the pool of potential investors and partners. Mainly, in the light of the Chairmanship of the Republic of Belarus in the Central European Initiative (CEI) in 2017 and in order to strengthen regional cooperation between Austria, Albania, Belarus, Bulgaria, Bosnia and Herzegovina, Hungary, Italy, Macedonia, Moldova, Poland, Romania, Serbia, Slovakia, Slovenia, Ukraine, Croatia, Montenegro, the Czech Republic On December 4, 2017, the CEI Business Forum "Energy Efficient and Environmentally Friendly Technologies" was held in Minsk. The purpose of the business forum is to present modern energy efficient and environmentally friendly technologies for achieving sustainable social and economic development in the CEI region. The project invited a representative of the company "Windmills of Ukraine" to give a presentation on the localization of production of wind turbines in the framework of the sectional meeting "Environmentally friendly technologies", as well as representative of the company Tokmak Solar Energy (Ukraine) - to present the innovative technology of the company for the production of tracker solar panels. The project paid travel expenses of the invited people. The travel expenses of the international consultant on Carbon market are also paid from this activity.
		04000	00012	MNREP	71600 - International travel	0	0		2 555,60	0,00%	-2 555,60	
1.2.5	Negotiate Investment Agreements for Project Pool with a single tariff rate for the entire Project Pool.					0	0	Activity is planned for 2018	0	0,00%	0	Activity is planned for 2018

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1.2.6.	Cooperate with the European Union project and any other relevant projects, including representatives on Steering Committee in establishing the proposed tariff scheme. 1.2.6.1. Development of a Programme document (Strategy) defining the main directions of development of RES for the period until 2030.	04000	00012	MNREP	71300 - Local consultants	7 800	0	1. Recommendations are prepared for the Republic of Belarus on the basis of international experience and trends in the development of renewable energy sources for elaboration of a program document (Strategy), which defines the main directions for the development of renewable energy sources for the period up to 2030.	1796,11	23,03%	6 003,89	The implementation of the activity is shifted to 2018 as the consultant did not deliver the reports in time and up to the required quality. Nevertheless, the national legal consultant of the project did the preparatory work for the selection of the consultant for the development of the Strategy - prepared the TOR and the contract. He also revised the reports submitted by the Consultant on the development of the Strategy. While the reports were not acknowledged satisfactory no payments were made to the Consultant on the development of the Strategy. The international consultant was not hired as appropriate candidatures were not found. As far as the project has already experienced difficulties with the selection of international consultants it would be beneficial for the project if UNDP provides access to a revised roster of international consultants on RES
		04000	00012	MNREP	71200 - International consultants	5 050	0	A draft program document (Strategy) is prepared, which defines the main directions for the development of renewable energy sources for the period up to 2030. 2. A justification for the adoption of this program document is prepared. 3. The developed draft of the legal document and the justification are approved by the Ministry of Natural Resources and the main stakeholders.	0,00	0,00%	5 050,00	
1.2.7	Prepare a report for the Ministry of Economy to suggest adapting the above tariff scheme in Secondary Legislation implementing Law on RES 1.2.7.1. Development of the draft legal act regulating the issues of the tariff for the energy produced by RES	04000	00012	MNREP	71300 - local consultants	2 100	0	1. A draft legal act regulating the issues of the tariff formation for the wind energy is prepared. 2. A rationale for the elaborated legal act is drafted. 3. The developed draft legal act and the rationale are considered and approved by the stakeholders.	2 654,58	126,41%	-554,58	The draft of the Resolution of the Council of Ministers of the Republic of Belarus "On approval of the provision on the formation of the tariff for the energy produced by renewable sources" as well as the rationale for its adoption are developed and approved by the MNREP.
1.2.8	The project will analyze and prepare reports on two concepts for the tariff scheme demonstrating that the tariffs are harmonized with the best European practice.					0	0	1. The best practices of RES tariff formation in European countries and in CIS (Russian Federation and Ukraine) are reviewed and analyzed. 2. The best practices and an optimal tariff to be adopted in Belarus are identified. 3. Recommendations on approaches and methods of tariff formation for RES are developed. A relevant report is approved by MNREP.	0,00	0,00%	0,00	1. The international experience of RES tariff formation was analyzed. 2. The RAB methodology is defined as the optimal way to define the tariff for the RES projects in Belarus, which was proved by a model calculation based on a real project. 3. The recommendations for the procedure of the tariff definition were developed, including recommendations for the amendments to the Law on Renewable Energy Sources. All the mentioned outcomes were presented in a report "Development of a draft of the methodological document defining the procedure of the tariff formation for the energy produced by RES" and approved by MNREP.
Gains/losses									35,39	0,00%	-35,39	
<b>Total 1.2</b>						<b>16 500</b>	<b>0</b>		<b>7 927,84</b>	<b>48,05%</b>	<b>8 572,16</b>	
<b>1.3: New/Improved Technical Norms and Standards</b>												
<b>1.3.1. WPFI 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	Review and analysis of international experience for regulation and application of techniques for wind turbine positioning, connection of wind farms to grid	62000	GEF	000995	71200 International consultants	0	0	The activity is completed in 2016.	0,00	0,00%	0,00	The activity is completed in 2016.
1.3.1.2	Development of proposals for introduction of new and improved technical norms in the sphere of wind power development, including drafts of the relevant terms of reference.	62000	GEF	000995	71305 - local consultants	0	0	The activity is completed in 2016.	0,00	0,00%	0,00	The activity is completed in 2016.
1.3.1.3	Development of the drafts of the technical regulatory documents according to the terms of reference developed under item 1.3.1.2.	62000	GEF	000995	72100 - Contractor services - companies (informational services of legal databases)	370	0	The drafts of the technical standards in wind energy are developed and approved by MNREP and recommended for the endorsement in accordance with the national legislation.	158,59	42,86%	211,41	1. The drafts of the following technical legal acts were developed and approved by MNREP: - Procedure of wind parameters monitoring and evaluation of wind energy capacity when positioning wind energy turbines on the territory of the Republic of Belarus. - Rules of positioning of wind energy turbines. 2. The contractor was selected for the development (adaptation) of standards based on the Russian standards GOST R 54435-2011, GOST R 55618-2013, GOST R 54433-2011, GOST R 55619-2013 with maximum consideration of the conditions and practices of the Republic of Belarus - BelGISS.
		04000	TRAC	000995	72100 - Contractor services - companies (informational services of legal databases)	0	0		211,42	0,00%	-211,42	
		62000	GEF	000995	71300 - local consultants	6000	0		5 894,69	98,24%	105,31	
1.3.1.4	Organization of the conference on technical standards in Wind power development	04000	TRAC	000995	74200 - Audio Visual & Print Prod Costs	1000	0	1. State-of-the-art tendencies in technical regulation of wind energy are presented and discussed with the stakeholders. 2. The developed legal acts and technical standards are presented to the stakeholders. 3. Printed materials with information on wind energy is disseminated among the public.	1392,17	139,22%	-392,17	On November 22, 2017 a seminar "The Future of Renewable Energy: Plans and Prospects" was held. About 60 invited specialists from various ministries and departments (Ministry of Environment, UNDP, Ministry of Economy, State Standard, etc.), representatives of business, non-profit organizations, mass media, as well as a number of international and local consultants of the project increased their knowledge in various aspects of wind energy, raised their awareness in the most recent trends of RES development in Belarus and in the world. Overriding issues of the development of RES in Belarus as well as some outputs of the project were discussed by the participants. In the course of the workshop some recommendations for further work on regulatory documents on renewable energy sources were elaborated. Printed promotional materials on wind energy and the project (calendars) were published and disseminated at the seminar.
		62000	GEF	000995	72100 - Contractor services - companies (informational services of icetrade.by)	49	0		0,00%	49,00		
		62000	GEF	000995	72100 - Contractor services - companies (conducting conference)	1 979	0		1907,52	96,40%	71	
		04000	TRAC	000995	71600 - Local travel				351,29	0,00%	-351	

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		04000	TRAC	000995	72100 - Contractor services - companies (conducting conference)	9000	0		9 207,73	102,31%	-207,73	
	Gains/losses								35,39	%	-35,39	
	<b>Total 1.3.</b>					<b>18 398</b>	<b>0</b>		<b>19 158,80</b>	<b>104,14%</b>	<b>-761,14</b>	
<b>1.4: Wind Private Finance Initiative (WPFI) created and operational</b>												
1.4.1	Finalizing Terms of Reference for WPFI					0	0	The activity is completed in 2015.	0	0	0	The activity is completed in 2015.
1.4.2	Finalizing Terms of Reference for staff and hiring WPFI Staff					0	0	The activity is completed in 2016.	0	0	0	The activity is completed in 2016.
	<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>114 088</b>	<b>0,00</b>		<b>76 385,10</b>	<b>66,95%</b>	<b>37 702,90</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	Activity was completed in 2015.	0	0	0	Activity was completed in 2015.
2.1.2	Through the activities outlined in Outcome 3, WPFI 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 2018	0	0,00%	0	The activity is planned for 2018
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)	0	0	The activity was completed in 2016.	0,00	0,00%	0	The activity was completed in 2016.
		62000	GEF	000995	71200 International consultants	0	0		0,00	0,00%	0	
		62000	GEF	000995	71305 - local consultants	0	0		0,00	0,00%	0	
		62000	GEF	000995	71600 - International travel	0	0			0,00%	0	
2.1.3.3.	2.1.3.3.Preparation of informational materials on wind energy (articles, review, factsheets etc.)	62000	GEF	000995	71200 International consultants	0	0	At least 10 articles, 5 reviews, 4 fact sheets are prepared and posted on the web-site of the project.	-1,98	0,00%	1,98	At least 84 articles and reviews were prepared and posted on the web-site windpower.by and in social media (Facebook, VK, and Instagram).
		62000	GEF	000995	71305 - local consultants	2 767	0		1834,54	66,31%	932	
	Gains/losses								-0,01	0,00%	0	
	<b>Total 2.1.</b>					<b>2 767</b>	<b>0</b>		<b>1 832,55</b>	<b>66,23%</b>	<b>934</b>	
<b>2.2: Specialized local engineering</b>												
2.2.1	The project tenders in Output 3.1 will stipulate that whenever possible, local contractors, subcontractors, and engineers must be used. However, there will be criteria stipulating a certain level of experience. This may mean that a local contractor is a sub-contractor on the first project and then becomes the general contractor after gaining the requisite experience.					0	0	The activity is planned for 2017-2018	0		0	The activity is planned for 2017-2018
	<b>Total 2.2.</b>					<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	
<b>2.3: Introduce RE related curricula at Universities</b>												
2.3.1	The project tenders, wherever possible, will contain provisions for continued local support of the projects from local technical universities such as the International State Sakharov Environmental University. 2.3.1.1: Organization of training for wind energy specialists with the programme WindPro	62000	GEF	000995	71600 - International travel	12 000	0	1. Training on wind measurements and wind farms design with the use of WindPro is organized.	9 697,68	80,81%	2 302	1. Training in Wind PRO was carried out in the period from May 15 to May 18, 2017, within 4 working days for 9 hours each. The training was organized by the Training Center of the Ministry of Natural Resources with the direct involvement of the Danish company EMD. 13 people were trained - representatives of 9 companies and organizations from Belarus. Upon completion, each student was issued a document confirming the course of using the windPRO software product, as well as the right of use the windPRO software product for a period of 1 month (provided by the Danish company EMD). as well as a certificate of the Belarusian pattern on
		62000	GEF	000995	72100 - Contractor services - companies	3 200	0	2. 13 specialists are trained to work in WindPro (wind measurements data processing, design etc.) 3. At least 2 meteorologist specialists were	0,00	0,00%	3 200	

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2.3.1.2. Carrying out training in France for meteorologists on modern software products that improves the quality of weather forecasts used to predict the generation of energy from the wind.	62000	GEF	000995	72100 - Contractor services - companies	25 466	0	trained in France to work with modern software that improves the quality of weather forecasts used to predict the generation of energy from the wind.	25 371,73	99,63%	94,27	skills upgrading in the territory of the Republic of Belarus and a certificate from the company EMD. According to the results of after course questionnaire filled in by the participants, they found the course extremely useful and efficient, and encouraged the project to continue professional training in wind energy projects development. 2. Two specialists-meteorologists of Belhydromet took part in the training course in the National Meteorology School in the period of 27.11.2017 - 10.12.2017. The trainees - two specialists-meteorologists of Belhydromet raised their professional level in such aspects as the system of early warning of adverse and dangerous phenomena "Vigilance", alerting about dangerous phenomena via SMS; collection and processing of the data of meteorological satellites; seasonal forecasting; aviation forecast; marine forecast; road forecast; the quality of air transport, the modeling of atmospheric pollution. The trainees got the knowledge of the theoretical foundations of the most important aspects in weather forecasting (dynamic and synoptic meteorology, convective cloud development, aerological diagram analysis), as well as did some practical exercises and weather forecasting using the latest developments and achievements of Meteo -France (software complex SYNERGIE and SYNOPSIS).
<b>Total 2.3.</b>					<b>40 666</b>	<b>0</b>		<b>35 069,41</b>	<b>86,24%</b>	<b>5 597</b>	
<b>2.4: Completed support for ancillary services</b>											
					<b>0</b>	<b>0</b>		<b>0</b>	<b>0</b>	<b>0</b>	
<b>2.5: Developed and published manuals</b>											
2.5.1. Produce guidebook containing template guidelines for future wind energy development 2.5.1.1. Presentation of the DREI study	62000	GEF	000995	71200 International consultants	9 579	0	De-risking study outcomes and final report are presented to the stakeholders (government bodies, RES association, investors and international organizations) at a workshop.	9 588,73	100,10%	-10	The final report on De-risking study in Belarus was submitted by the international consultant and approved by the MNREP. The report was reviewed by two highly qualified reviewers and translated into Russian. On May 18, 2017, a seminar was held to present the results of a derisking study. Within the framework of the seminar, a publication of the report was organized with reviews of two independent experts in Russian and English, as well as the distribution of this report on USB flash drives. In the course of the seminar, a round table was held on the current state of wind power development in Belarus and its prospects with the participation of investors. The major result of this event was attraction of new potential investors (via juridical companies Vilgerts and Sorainen which are working with investors in RES projects in Belarus), invigoration of the dialogue between the governmental bodies and policy makers and the private sector, identification of new issues to be tackled by the project.
	62000	GEF	000995	72100 - Contractor services - companies	5 850	0		6227,47	106,45%	-377	
	62000	TRAC	000995	72100 - Contractor services - companies	4 100	0		4100,17	100,00%	-0,17	
2.5.2 The Project Management Unit will create Procedural Guidelines based on Activity 3.2 that will provide future developer's with a template. This activity will also provide future Regulator's with guidelines for empirically setting FIT levels.					0	0	The activity is planned for 2018	0		0	The activity is planned for 2018
2.5.3 Guidelines on EIA of wind power development projects will be developed. Belarusian specialists will be trained on how to conduct EIA of wind power projects.	62000	GEF	000995	71305 - local consultants	3 600	0	1. Guidelines on EIA for the wind energy stations are developed and approved by MNREP. 2. Proposals on legal amendments to introduce the practices of EIA at the development of wind farms are prepared. 3. A study tour to a country with well-developed wind energy sector is organized to partake of the experience of EIA for the wind energy projects.	4 126,28	114,62%	-526	1. There were organized trips for 6 specialists from the Ministry of Natural Resources and PIU to Kazakhstan, Switzerland and Armenia to participate in activities related to wind energy, including the impact of renewable energy sources on the environment (project planning, waste management of wind farms, international cooperation on the impact of wind energy on the environment). The participants increased their knowledge in wind farms projects planning, wind farms waste management, expanded the international cooperation network in the RES sector. 2. In the period 13.11.2017-16.11.2017 a study tour to Ukraine was organized. 10 specialists – representatives of the Ministry of Energy, Department of Energy Efficiency, Training Center of the MNREP, National Academy of Sciences, project and Vitebsk regional executive committee increased their knowledge of RES projects development, policy making, and environmental impact assessment. Cooperation with the Ukrainian wind energy association was strengthened. 3. Guidelines on EIA for the wind power projects was developed and approved by the MNREP.
	62000	GEF	000995	71600 - International travel	30 405	0		24573,04	80,82%	5 832	
	62000	GEF	000995	72100 - Contractor services - companies	855	0		853,49	99,82%	2	
	62000	GEF	000995	71200 International consultants	8 000	0		7 986,89	99,84%	13,11	
Gains/losses								83,56	0,00%	-84	
<b>Total 2.5.</b>					<b>62 389</b>	<b>0</b>		<b>57 539,63</b>	<b>92,23%</b>	<b>4 349</b>	
<b>TOTAL outcome 2:</b>					<b>105822</b>	<b>0</b>		<b>94 441,59</b>	<b>89,25%</b>	<b>11380</b>	
<b>Outcome 3: Wind Energy Project Technical Assistance Facility is established to support the WPFI 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. The PMU supports the Ministry of Natural Resources and Environmental Protection to establish WESU.	62000	GEF	000995	72805 - computer equipment	2 577	0	The WESU is fully technically equipped for the implementation of their duties and functions.	2 481	96,27%	96	The computer equipment for WESU (two computers and one printer) was procured and installed.
3.1.2 Finalize the legal form and administrative criteria of the WPFI.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design services)	0	1 047,79	The activity was completed in 2016.	1924,92	183,71%	-877	The activity was completed in 2016.
3.1.3 Finalize the agreement between the WESU and the WPFI in the manner most conducive to operation in current conditions in Belarus.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design services)	5 000	0	The agreement on cooperation between the Ministry of Natural Resources (in which WESU was formed) and LLC "Wind Private Finance Initiative" was prepared and signed in accordance with the established procedure.	0	0,00%	5 000	The implementation of the activity is shifted to 2018. While the contract with the selected juridical company for the implementation of the activity is about to be signed in early January 2018.
3.1.4. 3.1.4. Conduct a tender to select an engineering firm to form the WPFI using generally accepted international standards for such tenders.						0,0	The activity was completed in 2016.	0,00	0,00%	0	The activity was completed in 2016.
3.1.5. Seek additional contributors to the funding of the WPFI in order to extend the range of WPFI capabilities.	62000	GEF	000995	71300 - local consultants	5 800	0	The report about the potential investors as well as financing organizations interested in cooperating with the Project on development	7 711,41	132,96%	-1 911	On 28-29 March a visit of the Partner of an investment company Nemera Capital Group (London) and the director of Windmatik company (wind project developer, Poland) to Belarus was organized, including meetings with the representatives of the MNREP. A field trip to a site

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		62000	GEF	000995	71200 International consultants			of the wind farms is developed and approved by MNREP.	-3,58	0,00%	3,58	for the wind power development near the village of Starye Boruny (Smorgon District) and meeting with the Deputy Head of the Smorgon District executive committee were also organized for the potential investors to WPMI. Both companies expressed their interest in working with WPMI on development of a wind power project. QWPMI and Windmatik negotiated the memorandum of understanding to include the project of this private investors in the pool of WPMI projects. The Memorandum between WPMI and Windmatik has been signed.
3.1.6.	WPMI screens all of the Cadastre sites and selects 5 target sites based on the sites that can achieve the lowest possible energy rates.						0	The activity was completed in 2016.	0,00	0,00%	0	The activity was completed in 2016.
3.1.7.	As part of the pre-feasibility screening, WPMI will gain preliminary clearance from the Ministry of Defence, Ministry of Communication and Informatization and other relevant agencies for siting.						0	The activity was completed in 2016.	0	0,00%	0	The activity was completed in 2016.
3.1.8.	WPMI 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						0	The activity was completed in 2016.	0,00	0,00%	0	The activity was completed in 2016.
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		0	Construction permits are obtained for the selected sites.	1 234,37	0,00%	-1 234	The first permits, which "clear" the continuation of the pre-design works were obtained – the permit from the Ministry of Defense of the Republic of Belarus, the Ministry of communications and information of the Republic of Belarus, the Department of Aviation of the Ministry of Transport and communications of the Republic of Belarus, RUE "BelGIE". The approval of the selected five sites from the Regional Committees of Natural Resources and Environment Protection was received. The Project consultant on wind energy verified the national regulation of wind project development to confirm that the initial permits obtained are sufficient for continuation of pre-design work on the sites. The project manager and the wind energy consultant of the project made working visits to the relevant local executive and administrative bodies, as well as to selected sites to monitor the measures taken to obtain the necessary approvals and permits for selected sites. The permits for the land plots and specification requirements for the connection to the grid were obtained only for the site in Veleshkovichi, which has the quota of 25 MWt, whereas the rest 4 sites have not been awarded the quota in spite of considerable efforts of the project and MNREP to persuade the Interagency Committee for the distribution of quotas to allocate quotas for the 4 project sites. Several letters were prepared by the PIU and sent my MNREP to the Committee as well as one to the Prime Minister with the explanation of the necessity of additional quotas for the project and request to allocate them. The final decision on the allocation of the quotas to the 4 sites of the project is still pending as the Committee addressed the Council of Ministers of the Republic of Belarus to have their plenipotentiaries expanded so that they could award those quotas that have not been requested in the course of the regular annual contest.
		62000	GEF	000995	71810 - Contractor services - individuals long term	8 692			4 937,09	56,80%	3 755	
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	36 188	0		30672,78	84,76%	5 515	
		62000	GEF	000995	71600 -Local Travel	600	0		0,00	0,00%	600	
		62000	GEF	000995	72100- Contractor services - companies (transportation services)	587	14,07		14,22	2,37%	586,85	
3.1.10.	Transmission review of selected sites.	62000	GEF	000995	71300 - local consultants	3 274	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.	197,15	6,02%	3 076,85	Apart from the draft specification requirements for the connection to the grid and final specification requirements for the connection to the grid of the planned wind farm in Veleshkovichi an independent transmission review for the selected sites was performed. A relevant report was prepared and approved by MNREP.
		62000	GEF	000995	71810 - Contractor services - individuals long term				2235,32	0,00%	-2 235,32	
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	5 000	19 504,22		24858,04	101,44%	-354	
		62000	GEF	000995	71600 - Local Travel	200	0		76,8	38,40%	123	
		62000	GEF	000995	72100- Contractor services - companies (transportation services)	843	0		540,99	64,17%	302	
3.1.11.	Securing permission for the selected sites; installation of meteorological towers of 98 m in height (or other equipment); wind parameters measurement.	62000	GEF	000995	71300 - local consultants	2 200	0	1. Project and design documentation on wind measurement equipment is developed and approved. 2. Wind measurement towers with equipment are installed on the selected sites. 3. All necessary permits for installation of the wind measurement equipment are received. 4. The wind measurement campaign is going on. 5. Equipment owned by Belhydromet dismantled at 2 sites for further use in wind-measuring campaigns for updating the Atlas of wind potential. 6. Organization of two study trips for Belhydromet specialists to Poland (12 people for 3 working days) and France (10 people for 2 working days) to increase the level of knowledge and development of weather forecasting skills for further use in	2 973,30	135,15%	-773	The project and design documentation for the installation of wind measurement equipment was developed and approved for four selected sites. For one site – Veleshkovichi – the contractor 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 (ENECA) negotiated purchasing of the results of the wind measurement campaign that had been undertaken in this area as well as confirmation of these results from a DIN certified company Wind Prospect. The installation of the wind measurement equipment started on 31 January 2017 but at the time of erection of the first meteorological mast at the site in Starye Boruny (Smorgon district), the latter broke down. ENECA and the equipment supplier (Avanta and K) initiated the technical expertise investigations to clarify the cause of the accident (quality of the mast and connecting parts or the procedure of erection). When the results of these investigations are obtained a decision on the continuation of the work will be made. The PIU has been closely dealing with this issue documenting the accident and its effects, as well as initiating meetings and discussions with ENECA and its subcontractors, the equipment supplier to review the methodology of the installations works, double-check the quality of the equipment and connecting parts. The relevant reports with photos prepared and submitted to the MNREP. On March 15, 2017 ALC "ENECA" submitted an opinion of ILC "Forensic and Expert Collection"
		62000	GEF	000995	71200 International consultants		0		0,00	0,00%	0	
		62000	GEF	000995	71810 - Contractor services - individuals long term				6877,09	0,00%	-6 877	
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	150 658	0		168031,94	111,53%	-17 374	

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		62000	GEF	000995	71600 - Local Travel	396	0	weather forecasting skills for further use in forecasting wind power generation and preventing emergency situations on windmills associated with hazardous weather events. 7. Repair of doppler weather radar installed at the National Airport Minsk.	294	74,24%	102	On March 15, 2017 ALC "ENECA" submitted an opinion of ECA Forensic and Expert Consultant to the Project Management Team, and on April 10, 2017 CJSC "Avanta & K" submitted an opinion of the Center for Forensic Expertise of the Branch of the BNTU "Intersectoral Institute for Staff Training and Retraining on Management and Personnel Development" to the Project Management Team. The findings of both reports referred to the connecting elements of the equipment as not appropriate and as a probable cause of the destruction of the meteorological mast at the time of installation. Right after receiving the second expert opinion report, the Project Management Team undertook several steps to organize further work. Several meetings with the representatives of ALC "ENECA", PPUE "CampiEnergy", LLC "EcoTECH" and CJSC "Avanta & K" were held to decide on the damage rectification as well as on the methodology of wind measurement equipment installation. PPUE "CampiEnergy" and LLC "EcoTECH" provided for the development of design documentation on restoration of the damaged mast. CJSC "Avanta & K" was to ensure the replacement of all fasteners of the supplied masts. The additional agreement was prepared and signed with ALC "ENECA" with the revised schedule of the equipment installation. In the period from July 31 to August 14, 2017, wind-measuring complexes were installed at sites near the village of Zalesovtsy (Novogrudok district), Starye Boruny (Popelevichi) village (Smorgonsky district), Zagoryane village (Gorodoksky district), and Patskovo (Senno region). The installation was successful, the data from all wind measurement complexes have been sent to special e-mail addresses of the equipment manufacturer, ENEKA company, and the project management team. In the period of 13-26 December 2 wind measurement complexes belonging to Belhydromet were dismantled and stored at the premises of Belhydromet. This equipment after proper check-up and quality certification can be used for expanded wind monitoring in the framework of the project. Two study trips for Belhydromet specialists to Poland (12 people for 3 working days during 11-15 December) and France (10 people for 2 working days - 5-8 December 2017) were organized to increase the level of knowledge and development of weather forecasting skills for further use in forecasting wind power generation and preventing emergency situations on windmills associated with hazardous weather events. The contract for the preventive maintenance of the Doppler weather radar installed at the National Airport Minsk was negotiated with the radar producer (Selex).
		62000	GEF	000995	71600 - International Travel	40 000	0		35 546,89	88,87%	4 453	
		62000	GEF	000995	72145 - Contractual services (training)				7 404,64	0,00%	-7 405	
		62000	GEF	000995	73400 - Equipment maintenance	1 437	0		0	0,00%	1 437	
		62000	GEF	000995	72100- Contractor services - companies (deinstallation of windmeasurement equipment)	35 000	0		25 113	71,75%	9 887	
		62000	GEF	000995	73400 - Equipment maintenance (radar)	95 169	0		21 266,43	22,35%	73 903	
		62000	GEF	000995	72100- Contractor services - companies (transportation services)	664	0		2753,44	414,67%	-2 089,44	
		62000	GEF	000995	74500 - Equipment insurance	1 000	1 814,82		0	0,00%	2 815	
3.1.12.	WPF1 would begin the permitting, Power Purchase Agreement, and grid connection processes with the relevant agencies.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	35 805	0,00	1. Investment agreements for the selected sites are prepared, including provisions on power purchase. 2. WPF1 is working in accordance with the TOR and its Statute.	23570,09	65,83%	12 235	The draft investment agreements for all five selected sites were prepared and a relevant report with the texts of the agreements was submitted by ENECA to the MNREP. The latter approved this report. However, the investment agreements can be signed only after investors for the sites are identified. As for the provisions of power purchase, for the sites Veleshkovichi (the one having quotas) the co-efficient to the basic tariff, which is approved together with the quota is 1.2. WPF1 has a leading role in preparation of the pre-investment assets.
3.1.13.	Working with WPF1 on a preliminary site layout that includes flexibility on turbine choice.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	112 000	0	1. Pre-design (feasibility study) documentation for 5 sites is developed. 2. Project design documentation for one site is developed and approved by state expertise.	110 439,52	98,61%	1 560	The draft investment agreements for all five selected sites were prepared and a relevant report with the texts of the agreements was submitted by ENECA to the MNREP. The latter approved this report. However, the investment agreements can be signed only after investors for the sites are identified. As for the provisions of power purchase, for the sites Veleshkovichi (the one having quotas) the co-efficient to the basic tariff, which is approved together with the quota is 1.2. WPF1 has a leading role in preparation of the pre-investment assets.
		62000	GEF	000995	71810 - Contractor services - individuals long term	3 292			8806,65	267,52%	-5 515	"Malaya Energetika" was awarded the contracts for the development of pre-design documentation for five selected sites, which were concluded in August 2017. By December 20th, the pre-design documentation was developed and approved by Main state construction expertise, as well as by State Environmental expertise.
3.1.14.	Environmental report for Investors.	62000	GEF	000995	71810 - Contractor services - individuals long term	6 292	0	1. The procedure of EIA for the wind energy projects is defined taking into account the international requirements to EIA and the requirements of the national legislation. 2. The activities on EIA of the planned projects are implemented, the relevant reports are prepared and approved by MNREP.	2 626,16	41,74%	3 666	In the course of development of pre-design documentation the Programme of the environmental impact assessment was prepared. The public hearings were held in the area of all five sites for the wind power projects. As a result, comprehensive reports designed in accordance with the national regulation on state environmental expertise were prepared and approved.
		62000	GEF	000995	71200 International consultants	7 000	0		0	0,00%	7 000	
3.1.15.	The Project conjointly 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	0	0	Several options for tariff to be included in the investment agreements are defined. A relevant report is approved by MNREP.	1 378,69	0,00%	-1 378,69	The company "ENECA" started negotiations on the conditions for concluding an investment agreement for the site near the village of Veleshkovichi. Since this site has a quota of 25 MW and a fixed ratio of 1.2 to the base tariff, signing of an investment agreement for this site is possible. While in other cases (for the remaining 4 sites), the conclusion of an investment agreement is impossible without obtaining quotas. The Ministry of Natural Resources has applied to the Republican interdepartmental commission on allocation of quotas for RES with a request to allocate additional quotas for the project. The tariff for the 4 sites having no quotas as of now may be different from the tariff for the site in Veleshkovichi - it is likely to be lower as there is a general tendency to reduce the "green" tariff in Belarus.
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	4 623	0			0,00%	4 623	
		62000	GEF	000995	71810 - Contractor services - individuals long term	5 154	0		464,78	9,02%	4 689	
3.1.16.	The Project conjointly 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.	62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	8 500	0	The drafts of the investment agreements are prepared and approved by the stakeholders. The agreements are signed.	0	0,00%	8 500	The draft investment agreements for all five selected sites were prepared and a relevant report with the texts of the agreements was submitted by ENECA to the MNREP. The latter approved this report. However, the investment agreements can be signed only after investors for the sites are identified. As for the provisions of power purchase, for the sites Veleshkovichi (the one having quotas) the co-efficient to the basic tariff, which is approved together with the quota is 1.2.
3.1.17	After collecting one year of wind data, WPF1 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 2018	0	0,00%	0	The activity is planned for 2018
3.1.18	Preparation of Information Memorandum					0	0	The activity is planned for 2018	0	0,00%	0	The activity is planned for 2018

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3.1.19	Consultant for tender of "Construction Ready" projects	62000	GEF	000995	71810 - Contractor services - individuals long term	5 300	0	1. TOR and tender documents for the selection of the consultant for organization of the pre-investment assets auction are developed.		0,00%	5 300	The activity is transferred to 2018 as it took longer than planned for the MNREP to select a juridical company, which will coordinate the process of pre-qualification of the investors, and provide support in selecting the auction organizer. Such company was selected (Artzinger and Partners) and the contract is to be signed in early January.
		62000	GEF	000995	71300 - local consultants	0	0	2. The consultant for organization of the pre-investment assets auction is identified; a contract with the selected consultant is signed.	1208,85	0,00%	-1 209	
		62000	GEF	000995	72100 - Contractor services - companies (consultancy and design service)	5 000	0	3. Pre-qualification documents for identification of the pool of potential investors for the wind power projects are developed and approved by MNREP. 4. The auction organizer is selected.	0	0,00%	5 000	
3.1.20	The Project, WPFI and the Wind Energy Support Unit will tender the Pre-Investment Assets to investors.					0	0	The investors are pre-qualified.	0	0,00%	0	The activity is transferred to 2018 as it took longer than planned for the MNREP to select a juridical company, which will coordinate the process of pre-qualification of the investors, and provide support in selecting the auction organizer. Such company was selected (Artzinger and Partners) and the contract is to be signed in early January.
Gains/losses									2333,77	0,00%	-2 334	
<b>Total 3.1.</b>						<b>588 251</b>	<b>22 380,90</b>		<b>497 969,91</b>	<b>81,55%</b>	<b>112 661,99</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	1 200	0	1. Minutes of meetings and reports of negotiations with the potential foreign and national investors are prepared; the proposals on the forms of cooperation are developed.	1178,94	98,25%	21	The cooperation with the investment company Nemera Capital Group (Great Britain) and wind energy development company Windmatik (Poland) was established. The meeting at the Ministry with the directors of these companies was held on 29 March 2017. One of the sites selected for the future WPFI projects was demonstrated to the potential investors. The minutes of the meeting and the field trip report were prepared and approved by the MNREP. WPFI and Windmatik negotiated the memorandum of understanding to include the project of this private investors in the pool of WPFI projects. The Memorandum between the investment company Nemera Capital Group (Great Britain) and wind energy company Windmatik (Poland) and LLC "WPFI" was signed.
		62000	GEF	000995	71200 International consultants	8 700	0	2. Most probable partners of WPFI are identified; a relevant report is prepared and approved by MNREP.	8705,45	100,06%	-5,45	
3.2.2	The Project together with WPFI and WESU will work with International Financial Institutions to identify and evaluate debt solutions.	62000	GEF	000995	71300 - local consultants	1 200	0	An analytical study on the possibilities (forms and ways) of financing of the wind energy projects is implemented. A relevant report is approved by MNREP.	1178,94	98,25%	21	An analysis of the forms and way of financing of wind energy projects in Belarus was made. A relevant report "Study of possibilities of financing of the wind energy projects in Belarus in the framework of implementation of the international technical assistance project "Removing barriers for wind power development in Belarus" was prepared and approved by MNREP.
3.2.3	The Project together with WPFI and WESU will provide term sheets for debt, as part of the Tenders, for the above projects based on international market terms and conditions.	62000	GEF	000995	71300 - local consultants	1 200	0	Recommendations on financing of the wind energy projects in Belarus (including recommendations on the development of new forms of financing of such projects in Belarus) are prepared. A relevant report is approved by stakeholders.	1178,94	98,25%	21	Recommendations on financing of the wind energy projects in Belarus (including recommendations on the development of new forms of financing of such projects in Belarus) were prepared. A relevant report "Study of possibilities of financing of the wind energy projects in Belarus in the framework of implementation of the international technical assistance project "Removing barriers for wind power development in Belarus" was prepared and approved by MNREP. A presentation of the recommendations was also made at the project workshop on 22 November 2017.
3.2.4	The Project together with WPFI 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.	62000	GEF	000995	71300 - local consultants	2400	0	Guidelines for the developers of wind energy projects financed by borrowed capital (national, foreign bank and international organizations) are drafted. The guidelines are approved by the stakeholders.	1 768	73,68%	631,60	Guidelines for the developers of wind energy projects financed by borrowed capital (national, foreign bank and international organizations) are drafted and approved by MNREP. The guidelines make part of the report "Study of possibilities of financing of the wind energy projects in Belarus in the framework of implementation of the international technical assistance project "Removing barriers for wind power development in Belarus".
Gains/losses									26,52	0,00%	-26,52	
<b>Total 3.2.</b>						<b>14 700</b>	<b>0</b>		<b>14 037,19</b>	<b>95,49%</b>	<b>662,81</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 2018	0	0,00%	0	The activity is planned for 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>602 951</b>	<b>22 380,90</b>		<b>512 007,10</b>	<b>81,88%</b>	<b>113 324,80</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	0	The activity is planned for 2018	0	0,00%	0	The activity is planned for 2018
<b>Total 4.1.</b>						<b>0</b>	<b>0</b>		<b>0</b>	<b>0,00%</b>	<b>0</b>	
<b>4.2: Completed Web portal for the project</b>												
4.2.1	Develop a project site/portal	62000	GEF	000995	72105 Contractor services - companies	1 586	0,00	The Internet-site is well maintained.	1 128,59	71,16%	457,41	The web-site www.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	13 800	0		13711,11	99,36%	88,89	
4.2.2	The Project will support the MNRE in validation and actualization of the Wind Atlas of Belarus and will place the validated version on the Project's web portal.					0	0	The activity is planned for 2018	0	0,00%	0	The activity is planned for 2018
4.2.3	Publish all relevant documentation on the web portal including project tender documents and information memorandums.					0	0	The activity is planned for 2018	0	0,00%	0	The activity is planned for 2018

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4.2.4					0	0	The activity is planned for 2018	0	0,00%	0	The activity is planned for 2018
								18,16	0,00%	-18,16	
<b>Outcome 4.4: Developed, reviewed, revised, finalized and published Lessons Learned study</b>											
4.4.1.	62000	GEF	000995	71200 International consultants	20000	0	TOR for the international and national consultants are prepared and approved by UNDP and MNREP.	19 000	95,00%	1 000	The international and national consultants for the Mid-term review of the project were selected. The MTR will take place at the beginning of 2018.
	62000	GEF	000995	71300 - local consultants	4 000	0	The mid-term review is undertaken and a relevant report is prepared and approved.	4 500	112,50%	-500	
<b>TOTAL outcome 4:</b>					<b>39 386</b>	<b>0,00</b>		<b>38 358</b>	<b>97,39%</b>	<b>1 028</b>	
<b>Project management</b>											
Project management	62000	GEF	000995	71810 - Contractor services - individuals long term	46339		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.	44444,03	95,91%	1 894,97	The activity is completed 1. On July 7 and September 15, the meetings of the Project Steering Committee were held. Decisions were made to adjust the project activities for 2017 in accordance with changed objective conditions. The semi-annual report of the project manager for the implementation of the Work Plan for 2017 was approved by the members of the Project Steering Committee. An annual report (PIR) has been prepared, information on project risks, monitoring, lessons learned and issues raised has been updated. On 22 DEcember 2017 the final PSC meeting was held at wich the report for the 2017 and the AWP 2018 were approved. 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, including the project logs. 5. The draft of the AWP 2018 is developed.
				72400- communication services	371	85,27		328,14	71,92%	128,13	
				73310 - Project accounting software	1149	97,11		1300,85	104,39%	-54,74	
				74559- Repayment of UNDP expenses	660			2 475,53	375,08%	-1 815,53	
				Gains/Losses				39,31	0,00%	-39,31	
	04000	TRAC	000995	71810 - Contractor services - individuals long term	11 050			12639,37	114,38%	-1 589,37	
				74110 - Professional Services	3 500			3 500,00	100,00%	0,00	
				72220- communication services					0,00%	0,00	
				Gains/Losses					0,00%	0,00	
<b>Total Project Management</b>					<b>63 069</b>	<b>182,38</b>			<b>64 727,23</b>	<b>102,33</b>	
								<b>3 653,25</b>	<b>0,00%</b>	<b>-3 653,25</b>	
<b>TOTAL</b>					<b>925 316</b>	<b>22 563,28</b>		<b>789 572,13</b>	<b>83,30</b>	<b>158 307,15</b>	

UNDP Programme Officer  
Igar Tchoulba

Project Manager  
Maryna Belavus

*[Handwritten signatures]*

Indicators	Baseline Level	Overall Project Targets	Level at 31 December 2017
Objective 1: Removing Barriers to Wind Power Development in Belarus and the installation of over 25 MW of nameplate generating capacity with a minimum of 5 MW per project and the generation of >1 million MWh of renewable energy and achieving direct greenhouse gas emission reductions totalling >500,000 tonnes of CO2 equivalent	Installation of at least 25 MW of wind power utilizing market based investments with average net capacity factors over 30% which will produce the objective of generating >1 million MWh of renewable energy and reducing greenhouse gas emissions by > 500,000 tonnes of CO2 equivalent	Zero: <5 MW	10 active debt and equity investors: 25 MW with a minimum of 5 MW per project
Outcome 1: Secondary Legislation is in place to support wind energy with the support of the project	A financeable feed-in-tariff including transmission charges.	RE Law	Enabling legislation in place with the assistance of GEF project.
Rules and procedures for grid connection.	RE Law	Secondary legislation and regulations and procedures for grid connection and financing grid connection with the assistance of the GEF project.	As of the reporting date Resolution of the Ministry of Antimonopoly Regulation and Trade of 20 July 2017 No. 41 "On tariffs for electricity generated from renewable energy sources on the territory of the Republic of Belarus by individual entrepreneurs and legal entities that are not part of the State production association of the electric power industry "Belenergo" and sold to the energy supplying organizations of this association" establishes the elevating and stimulating co-efficients to various sources of renewable energy, including wind energy. As far as approaches to the tariff formation used in the current legislation are not sustainable and do not stimulate investments in RES the project developed the draft of the Resolution of the Council of Minister of the Republic of Belarus (with the justification of the need for adoption and other related documents), approving a methodological document on the formation of prices (tariffs) for electricity produced using renewable energy sources and proposals for amending the Law of the Republic of Belarus "On Renewable Energy Sources" and other legislative acts as necessary. The methodology ensures the revenue for the investor while allows to form the tariff in a fair and transparent manner.
Outcome 2: Increased confidence in the profitability of wind power projects in Belarus	Clear guidelines and viable examples of Wind Farm investments in place	Zero	Completion of 5 wind farms providing a clear FIT, guidelines and confidence for future development.
Developed and published manuals	Zero	Comprehensive manual	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, posted on the web-site windpower.by, published as a brochure and disseminated among the stakeholders. 2. The guidelines for the investors EIA of wind projects were also developed.
Outcome 3: An Investment Grant is made by the GEF project which funds the WPFI	Availability of adequate funding for the WPFI and the PMU	Zero	\$XX mm
Selection of an outside consultant capable of performing the development work	Zero	At least 1	1 - The consultancy company ENECA with the sub-contractors for wind measurement campaign (companies having DIN accreditation) was contracted for the WPFI forming and pre-investment assets creation.
At least five meteorological towers are installed and data are collected for at least one year.	1	6	6 - 5 meteorological masts with the wind measurement equipment were procured and installed. As of the reporting date the wind measurement campaign is in full progress.



**What has changed in the country under your project area? Please specify with evidence base used.**

Imminent commissioning of the Belarusian nuclear power plant brings additional challenges for the energy system of the country as well as for the main regulator – the Ministry of Energy. The energy balance of the country is to be reviewed and relevant regulatory and infrastructure changes are to be made to ensure energy security and stability. Capacity of the Belarusian NPP will make about 2.4 GW, which is almost one quarter of the capacity of the whole energy system today. Thus, the shares of traditional and renewable sources are being reviewed and redistributed.

The Republic of Belarus actively cooperates with the countries of Eurasian Economic Union. In accordance with the Decision of Supreme Eurasian Economic Council No. 20 of 26 December 2016 the common electrical energy market of the EEU is to be formed by 2019. To pursue this decision the development of the draft of the Law of the Republic of Belarus "On electrical energy" started. This law also encompasses the provisions relating to renewable energy sources. Simultaneously the Decree of the President of the Republic of Belarus No. 209 "On renewable energy sources" is being reviewed and amendments to this Decree have been prepared. The latter document has been causing considerable contradictions between various stakeholders – Ministry of Energy, MNREP, Department of Energy Efficiency, MART, Regional executive committees, Renewable energy association and big private companies and investors. There emerged a need to review and amend the Law of Renewable Energy Sources, too.

For the recent couple of years the activity of domestic investors in wind energy sector has boosted. The biggest oil prospector – company Belarusneft – has launched a big wind energy project of 44 MW and as of reporting date they have completed the feasibility study and design stage and started tendering for the equipment. Together with such relatively big player the Conte Spa company applied for the small quota of 4 MW and as of reporting date are about to complete construction of two new 2 MW Vestas turbines. Both companies are characterized by professional and well-grounded approach to the development of wind energy projects. Due to their activity the sector got invigorated and turned to the direction of advanced technologies rather than using old-fashioned decommissioned equipment brought from Western Europe.

Possible surplus of energy at the commissioning of the NPP triggered the development of electrical transport in Belarus to the extent that it became a national priority acknowledged at the highest level. Belkommunmash enterprise produces commercially exploited electrical buses – in 2017, 20 buses were carrying passengers on the streets of Minsk. In cooperation with the Chinese automobile producers a first Belarusian-made electrical car was made and presented to the public in 2017.

Belarusneft is appointed responsible for the development of the network of electrical car charging stations, relevant regulatory acts were prepared to ensure the development of charging infrastructure.

**How would you characterize project's particular value added in its contribution to this outcome level change? Please specify with evidence base used.**

The project via Wind Energy Support Unit (WESU) has been actively participating in the process of regulatory changes in the sphere of RES. The proposals for the amendments of the Decree of the President of the Republic of Belarus developed in such reports as:

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.

were all elaborated taking into account the imminent commissioning of the NPP.

Almost all study tours organized in the course of the project implementation had a focus on development of wind energy in the conditions of a significant share of nuclear power in the energy balance of the country – the agenda of the tours to Germany and Ukraine had items dedicated to the experience of hosting countries of development of RES generation in parallel with the nuclear power generation.

WESU and the project have been active participants of the process of reforming the Decree of the President of the Republic of Belarus No. 209 "On renewable energy sources". The project has been using materials and reports of the consultants to prepare the written rationale for bringing such amendments to the Decree, which ensure fair and transparent distribution of quotas, safeguards the interests of the investor in wind energy and other RE sources. The head of WESU takes part in official meetings and discussions on the amendments to the mentioned Decree in the Council of Ministers of the Republic of Belarus and at the Ministry of Energy.

The draft of the legal act – resolution of the Council of Ministers (with the justification of the need for adoption and other related documents), approving a methodological document on the formation of prices (tariffs) for electricity produced using renewable energy sources and proposals for amending the Law of the Republic of Belarus "On Renewable Energy Sources" and other legislative acts as necessary were developed by the project. The developed drafts were sent to the Ministry of Antimonopoly regulation and Trade for the latter to submit it to the Council of Ministers for adoption.

The representatives of WESU and the PMU took part in the public discussion of the draft of the Law of the Republic of Belarus "On electrical energy", providing the mutually developed proposals on the provisions to be added.

The project launched cooperation with the most prominent private domestic developers of RES – Belarusneft and Conte Spa as well as Grdonoenergo – the owner of the first wind farm commissioned in Belarus. This cooperation was built on information exchange and support in undertaking practical stages of development of a wind farm. These partners shared their experience of the wind farms development, which was used by the project in the development of technical legal acts, as well as in drafting policy statements for the WESU.

The project looked at electrical transport as a means of storage of energy produced by wind; therefore electrical transport was one of the topical issues when planning the study tours. For example, during the study tour to Austria for the decision-makers the Austrian Energy Agency made a presentation on development of electrical transport in Austria and expressed their intention to cooperate with Belarus on development of public electrical transport.