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 Deputy Minister of Natural Resources and Environmental Protection of the Republic of Belarus
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Annual Work Plan

Project title: Removing Barriers to Wind Power Development in Belarus
Project number: 00087557
Year: 2019
Goals for the year:
 1) Enforcement of new/ improved technical norms and standards
 2) Organization and implementation of educational activities on wind energy
 3) Selection of the investors for the construction of wind farms.
 4) Development of activity of WPFI and WESU.
 5) Verification of Wind Atlas of Belarus.

Activity	Description	Unit of measurement	Quantity	Unit cost	Activities by quarters				Implementing partner	Fund	Donor	Account	Account description	Planned financial resources, USD	Annual outputs	
					Q1	Q2	Q3	Q4								
Outcome 1: Secondary Legislation is in place to support wind energy with the support of the project																
Output 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.																
Activities	1.1.1: Cadastre publication including all of the data that is required.														The activity is completed in 2018	
	1.1.2: Provide Ministry of Natural Resources and Natural Protection of the Republic of Belarus with manuals from other best practices markets for the implementation of a system to track renewable energy attributes specifically for wind farms.														Activity is completed in 2015	
	1.1.3: Provide a timeline for the future implementation of the certification system.															
	1.1.3.1 Development of the system of "green" energy certification and creation of the carbon market.														The activity is completed in 2018	
	1.1.4: Provide training for the WESU on maintaining this system															
	1.1.4.1. Organization of the workshop on discussion of the overriding issues of wind energy development (including the issues of the improved State Cadaster of RES) on the World Wind day on 15 June.															The activity is completed in 2018
	1.1.5: Provide educational materials to market participants explaining the value of having such a system in place															
	1.1.5.1: Development of the procedure of issuing "green" energy certificates															
Output 1.1, total GEF, Direct Cash Transfer:					0	0	0	0						0	Activity will be implemented in 2020 if the project is extended.	
Output 1.1, total GEF:					0	0	0	0						0		
Output 1.2: Formulated and enforced Secondary Legislation																
	1.2.1: Conduct jointly with Wind Energy Support Unit Pro-forma* economic calculations for WPFI's projects supporting proposals for tariff schemes														Activity is 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)														Activity is planned for 2020	
	1.2.3: The Project jointly with WESU will develop and present projects from WPFI to the Ministry of Economy with suggested tariff schemes.	pers/week													Activity is completed in 2017	
	1.2.4: The Project jointly with WESU will negotiate with private developers, including women, for the inclusion of private projects into the WPFI Project Pool	days	2	81		161,92	0	0			71600	Local travel**	162	Private investor for the site Veleshkovichi developed under the project is identified.		
	1.2.5: Negotiate Investment Agreements for Project Pool with a single tariff rate for the entire Project Pool.	pers/week	2	600	0		600	600			71300	National consultants	1 200	1. An agreement with a selected investor for the construction of a wind farm in Veleshkovichi is agreed upon and signed. 2. The monitoring of the implementation of the project for the construction of the wind farm by the investor is launched; a report is prepared with the outcomes of the initial stage of the project implementation by the investor, including an analysis of the tender (electronic bidding) for the investor's choice.		
	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.	pers/week	2,36	600	0	614,48	1545,52	0			71300	National consultants	2 160	1. The developed draft of the legal act on the approval of the Strategy is approved by MNREP and the main stakeholders for the submittal to the law-making body.		
	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														The activity is planned for 2020	
	1.2.7.1. Development of the draft legal act regulating the issues of the tariff for the energy produced by RES														The activity is completed in 2018	
	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.															
Output 1.2, total UNDP, UNDP services for project implementation :					0	161,92	0	0						162	Activity is planned for 2020	
Output 1.2, total UNDP, Direct Cash Transfer:					0	614	2 146	600							3 360	
Output 1.2, total UNDP:					0	776,4	2145,52	600							3 522	
Output 1.2, total UNDP:					0	776,4	2145,52	600							3 522	
Output 1.3: New/Improved Technical Norms and Standards																
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.																
	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														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.														Activity is completed in 2016	

	2.4.4. Analytical study on the efficiency of use of electrical transport as a consumer of electrical energy produced by wind at the time of minimum load	vehicle	2	15000				30000														1. Two electrical passenger vehicles are procured and transferred to two non-commercial organizations in small towns or rural area to replace the existing petrol fueled vehicles. 2. The data on the time and frequency of charging, amount of electricity used at night for charging the batteries are collected and transferred to the project for processing. 3. The data on the use of electrical vehicles are processed and conclusions on the use of electrical transport for accumulation of "green" energy and use of electricity produced by wind at night are prepared and circulated to local authorities, Ministry of Energy, Department of Energy Efficiency and NGOs. 4. At least two PR companies with the focus that a clear public awareness objective is satisfied by linking green production with green consumption are undertaken.	
		service	1	4000				4000															
	<i>Output 2.4, total GEF, Direct Payments:</i>						0	449.39	0	0												4 449	
	<i>Output 2.4, total GEF, UNDP services for project implementation :</i>						0	9907.65	0	0													9 908
	<i>Output 2.4, total GEF, Direct Cash Transfer:</i>						0	0	0	37 000													37 000
	Output 2.4, total GEF:						0	14 357	0	37 000													51 357
2.5: Developed and published manuals																							
Activities	2.5.1: Produce guidebook containing template guidelines for future wind energy development																						
	2.5.1.1. Presentation of the DREI study																						
	2.5.1.2. Production of an educational/promotional video-clip on the wind power issues																						
	2.5.1.3. Finalization and publication of technical guidebooks on wind energy																						
		service	1	5574,14	5574,14		0	0	0														1. The Scientific and Production Republican Unitary Enterprise "Belarusian State Institute for Standardization and Certification" (BelGiss), selected by the tender in 2017, will finalize the following technical legal acts (standards): STB XXXX "Renewable energy. Wind power plants. Safety requirements. Basic provisions "(based on GOST R 54435-2011); STB XXXX "Guidelines for equipping power plants. Part 5-3. Wind turbines "(based on GOST R 55618-2013); STB XXXX "Renewable energy. Wind power plants. Protection measures. Requirements for design, operation and maintenance "(based on GOST R 55619-2013); STB XXXX "Renewable energy. Wind power plants. Requirements for safety during operation "(based on GOST R 54433-2011). 2. The above mentioned documents are endorsed as well as the following guidelines developed in 2018: TKP XXXX "Environmental Protection and Nature Management. Rules for the Location of Wind Power Plants". TKP XXXX "Environmental Protection and Nature Management: The Procedure for Monitoring Wind Parameters and Estimating the Wind Energy Potential for the Location of Wind Power Plants in the Territory of the Republic of Belarus".
	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.																						
		pers/week	2	500	0	0	1000	0															Activity is planned for the second half of the 2019 if the project is extended.
	2.5.2.1.	Revision and updating of the Manual to the procedures "The main stages of the implementation of the project on wind energy"																					The previously developed Manual to the procedures "Main stages of the implementation of the wind energy project" was revised and updated in accordance with the current situation in the legislation in the field of renewable energy sources, as well as in accordance with practical experience gained during the implementation of the project. The relevant report is approved by the Ministry of Natural Resources.
	2.5.2.2	Publication of an updated project description (Project brief) and Models of the balance of the energy system of Belarus in connection with the development of renewable energy sources, distribution of printed materials among the stakeholders at conferences and at Belarusian Energy and Ecology Forum.		service	1	7000	0	0	0	7000													1. A design for a brief project description has been prepared (Project brief), the project brief is published in English and Russian with a circulation of about 200 copies. 2. Models of the balance of the energy system of Belarus in connection with the development of renewable energy sources is published in Russian and English with a circulation of at least 100 copies. 3. The printed materials are distributed at conferences and at Belarusian Energy and Ecology Forum.
	2.5.2.3.	Translation from / into English of the updated Manual to the procedures "The main stages of the implementation of the project on wind energy", Models of the balance of the energy system of Belarus in connection with the development of renewable energy sources, other materials and reports for publication on the project website and press		service	1	3000	0	0	1500	1500													The updated Manual to the procedures "The main stages of the implementation of the wind energy project", the Models of the balance of the energy system of Belarus in connection with the development of renewable energy sources, other materials and reports for publication on the project's website and in print are translated from Russian into English or from English into Russian.
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.																							
<i>Output 2.5, total GEF, Direct Cash Transfer:</i>						5574.14	0	2 500	8500													16 574	
Output 2.5, total GEF:						5574.14	0	2500	8500													16574.14	
<i>Total for outcome 2, Direct Payments:</i>						0	4 449	0	0													4 449	
<i>Total for outcome 2, UNDP services for project implementation :</i>						0	10 055	0	0													10 055	
<i>Total for outcome 2, Direct Cash Transfer:</i>						7 974	0	3 700	46 700														58 374
Total for outcome 2:						7 974	14 504	3 700	46 700														72 878
<i>Total Outcome 2, GEF, Direct Payments</i>						0	4 449	0	0														4 449
<i>Total for outcome 2, GEF, UNDP services for project implementation</i>						0	10 055	0	0														10 055
<i>Total Outcome 2 GEF, Direct Cash Transfer, GEF:</i>						7 974	0	3 700	46 700														58 374
Total for outcome 2/GEF:						7 974	14 504	3 700	46 700														72 878
Outcome 3: Wind Energy Project Technical Assistance Facility is established to support the WPF1 investment in and the development of documentation for at least 25 MW of wind power																							
Output 3.1: Completed support provided for potential site developments																							
	3.1.1: The PMU supports the Ministry of Natural Resources and Environmental Protection to establish WESU.																						
	3.1.2: Finalize the legal form and administrative criteria of the WPF1.																						

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.											
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 coordinates with other relevant ministries.	pers/week	6	600	1200	0	1200	1200				
	service	1	62,5	62,5	0						
	pers/week	8,8	500	2200	0		2200				
3.1.17: After collecting one year of wind data, WPFI will provide a financeable report that combines the on-site data with the existing long-term data (suitable for bank debt financing).	service										
3.1.18: Preparation of Information Memorandum											
3.1.18.1: Independent assessment of pre-investment assets value	service	1	2324,93	2324,93							
3.1.19: Consultant for tender of "Construction Ready" projects											
3.1.19.1: Development of qualification criteria for the selection of the investors; provision of due-diligence at the process of investor selection, concluding the investment agreement and ensuring financing of the wind mills construction	pers/week	2	5120,7	0	10241,41		0				
	pers/week	2	3238,5	0	0	6447	0				
3.1.19.2: Selection of the auction organizer for selling pre-investment assets to the investors											
3.1.20: The Project, WPFI and the Wind Energy Support Unit will tender the Pre-Investment Assets to investors.	service			0	14133,14						
	pers/week	22	500-600	8600	0	3400					
Output 3.1, total GEF, Direct Payments:			9680,37	0	12447	0					
Output 3.1, total GEF, UNDP services for project implementation :			4479	9 958	0	0					
Output 3.1, total GEF, Direct Cash Transfer:			52 325	70 563	6 800	5 600					
Output 3.1, total GEF:			66484	80521	19247	5600					

										The activity is completed in 2017.
71300	National consultants							3 600,00		The investor selected during the electronic bidding is offered a draft investment agreement, as well as a draft power purchase agreement, which is to be signed after the commissioning of the wind farm. Monitoring of the implementation of the project by the investor is launched, an analysis of "lessons learned" is prepared.
71300	National consultants**							62,50		
71300	National consultants							4 400,00		
										The activity is completed in 2018.
										Information (investment) memorandum is prepared for the investment tender on Veleshkovichi site.
72100	Contract services - companies							2 324,93		Independent assessment of pre-investment assets value performed by certified valuator
71300	National consultants							10 241,41		1. Short list of investors. 2. Evaluation of the investors' proposals, evaluation report. 3. Final report the selection of investors in the wind power projects approved by MNREP.
71200	International Consultants*							6 447,00		An independent assessment of the process of pre-qualification of investors is carried out, investors are identified for admission to electronic trading on the sale of a pre-investment asset, a corresponding report is prepared.
								0,00		1. The Operator of the digital trade platform is defined and involved in the investment tender organization. 2. The investment tender for Veleshkovichi is held.
72100	Contract services - companies (consultancy service)							14 133,14		1. Investors eligible for the auction for the sale of a pre-investment asset for the construction of a wind farm in Veleshkovichi are identified. - 2. An investor is selected for the implementation of the project for the construction of the wind farm in Veleshkovichi, a contract of sale is concluded.
71300	National consultants							12 000,00		
Output 3.1, total GEF:			66484	80521	19247	5600				

Output 3.2: Identify and evaluate available public and private debt and equity financing for above site developments

3.2.1: Regular discussions and outreach with potential foreign and domestic developers and investors.											
3.2.2: The Project together with WPFI and WESU will work with International Financial Institutions to identify and evaluate debt solutions.											
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.											
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.											
Output 3.2, total GEF:			0	0	0	0	0				

											0	The activity is completed in 2016- first half of 2019
												The activity is completed in 2017.
												The activity is completed in 2017.
												The activity is completed in 2017.
Output 3.2, total GEF:			0	0	0	0	0				0	

Output 3.3: Completed support for the preparation of development work on the targeted sites

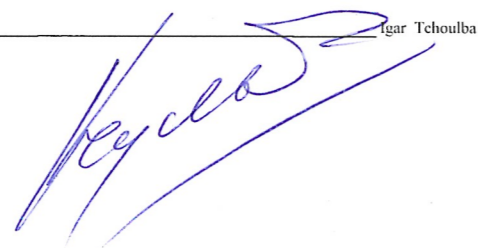
3.3.1: Completing the investment justification stage and preparation of pre-feasibility											
3.3.1.1: Organization of participation of Belarusian distinguished specialists in the sphere of RES in thematic conferences, forums, to promote wind power investment to Belarus	service	1	3301,37	3001	0		0				
	pers/days	52	169,3	0	2802,2	0	6000				
3.3.1.2: Project monitoring of the investment projects implementation	чел/нед	12	500-600	0	0	0	3400				
3.3.1.3: Organization of the workshop to monitor and present the results of the project implementation including practical and capacity building activities											
3.3.1.4: Organizing a round table discussion on the selection of an investor for the construction of a wind farm near the village of Veleshkovichi	уелуга	1	3600	0	0	3600	0				
3.3.1.5: Conducting an analytical study on the development of opportunities to introduce "smart grids" in Belarus	чел/нед	3	5000	0	0	0	15000				

72100	Contract services - companies (service for organization of study tours)							3 001		1. At least 12 specialists from MNREP, the Ministry of Energy, the Department for Energy Efficiency, the MART, the Ministry of Finance raised their level of knowledge about the planning, financing and implementation of the project for the construction of a wind farm, and also increased their professional potential to attract partners and investors to implement renewable energy projects in Belarus.		
71600	International travel **							8 802				
71800	Contractor services - individuals							3 400		Monitoring of the investor's implementation of a wind farm construction project is initiated. A report on the initial stage of the project for the construction of a wind farm near the village of Veleshkovichi is prepared.		
										The activity will be implemented in 2020 in case the project is extended.		
72100	Contract services - companies (service for organization of workshops)							3 600		1. At least 25 representatives of interested government agencies, businesses, banks, and the media are familiarized with the results of the competition for the selection of an investor for the construction of a wind farm near the village of Veleshkovichi. 2. The information materials in the amount of at least 200 copies are prepared and distributed.		
71200	International consultant *							15 000		1. An analysis of international experience in the development of "smart grids" is prepared. 2. Recommendations are prepared for the Republic of Belarus on the development of "smart grids" in order to improve the conditions for increasing the share of renewable energy sources, including wind energy, in the country's energy balance. 3. The results of the study are presented to the stakeholders at a round table 4. Proposals are prepared for further practical activities aimed at the development of "smart grids" in Belarus.		

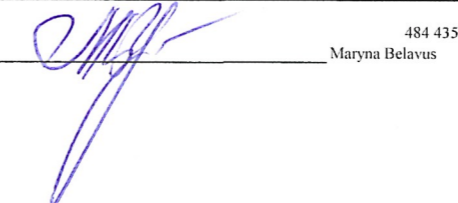
Total for outcome 4:		6199	4916	2400	124800					138315					
Total for outcome 4 GEF, Direct Payments:		0	0	0	0					0					
Total for outcome 4 GEF, UNDP services for project implementation :		0	0	0	121 200										
Total for outcome 4 GEF, Direct Cash Transfer:		6 199	4 916	2 400	3 600					17 115					
Total for outcome 4/GEF:		6 199	4 916	2 400	124 800					138 315					
Project management															
Activities	Project Management	month	12	40	120	123	120	120			72420	Communication services	483	<ol style="list-style-type: none"> The Project Steering Committee monitors the implementation of the project, as well as compliance with the established quality standards, timelines and budget constraints. Target indicators defined in the project documentation are achieved. Reports required under the Letter of Agreement and national legislation on technical assistance are prepared and sent in due course to MNREP, UNDP and the Ministry of Economy. The data necessary to reflect the progress of the project in the ATLAS system are prepared and handed over to UNDP. The draft annual work plan for 2020 is developed and approved by MNREP and UNDP. The audit of the project for the financial year of 2018 is undertaken, a relevant report is prepared and submitted to UNDP and MNREP. The project extension is granted by the donor and confirmed by the MoE of Belarus. Integrated expertise of the project is held. The project extension is granted by the donor and confirmed by the MoE of Belarus. 	
		month	12	101,5	510,83	307	200	200			73310	Accounting software maintenance	1218		
					687,470	225	800	500			74559	Repayment of UNDP expenses**	2212		
		Project management, total GEF:			1318	655	1120	820,0					3913		
		pers/week	86	558,72	19123,06	9796,93	4780	14350		04000	00012	71810	Contractor services - individuals long term		48050
		service	1	5100,84		100,84	5000	0				74110	Professional Services**		5100,84
		Project management, total UNDP:			19123,06	9897,77	9780	14350							53151
		Total for Project Management, UNDP services for project implementation :		687	326	5 800	500								7 313
Total for Project Management, Direct Cash Transfer:		19 754	10 227	5 100	14 670							49 751			
Total Project Management:		20441	10552,91	10900	15170							57064			
Total for Project Management GEF, UNDP services for project implementation :		687	225	800	500							2 212			
Total for Project Management GEF, Direct Cash Transfer:		631	430	320	320							1 701			
Total Project Management/GEF:		1318	655	1120	820							3913			
Total for Project Management UNDP, UNDP services for project implementation :		0	101	5 000	0							5 101			
Total for Project Management UNDP, Direct Cash Transfer:		19 123	9 797	4 780	14 350							48 050			
Total Project Management/UNDP:		19123,06	9897,77	9780	14350							53151			
TOTAL PROJECT:		104 100	114 073	41 993	224 270							484 435			
Total Project, Direct Payments:		9 680	4 449	12 447	15 000							41 577			
Total Project, UNDP services for project implementation :		5 166	23 303	5 800	127 700							161 969			
Total Project, Direct Cash Transfer:		89 253	86 321	23 746	81 570							280 890			
TOTAL PROJECT/GEF:		84 977	103 399	30 067	209 320							427 763			
Total Project GEF, Direct Payments:		9 680	4 449	12 447	15 000							41 577			
Total Project GEF, UNDP services for project implementation :		5 166	23 040	800	127 700							156 706			
Total Project GEF, Direct Cash Transfer:		70 130	75 909	16 820	66 620							229 480			
TOTAL PROJECT/UNDP:		19 123	10 674	11 926	14 950							56 673			
Total Project UNDP, UNDP services for project implementation :		0	263	5 000	0							5 263			
Total Project UNDP, Direct Cash Transfer:		19 123	10 411	6 926	14 950							51 410			

* Direct payments
 ** UNDP services for project implementation

UNDP Programme Officer


 Igor Tchoulba

Project Manager


 Maryna Belavus

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