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 UNDP Deputy Resident Representative

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Annual Work Plan

Project title: Removing Barriers to Wind Power Development in Belarus
 Project number: 00087557
 Year: 2021
 Goals for the year:
 1) Completion of the formation of the national capacity to perform wind measurements.
 2) Expanding the capabilities of the WPFi within the project objectives.
 3) Construction of a 25 MW wind farm by the investor selected within the project.
 4) Development of the activities of the WESU.
 5) Conducting the terminal evaluation of the project.

Activity	Description	Unit of measurement	Quantity	Unit cost	Activities						Implementing Agent/ Responsible Party	Fund	Donor	Account	Account description	Planned financial resources, USD	Annual outputs
					Q1			Q2									
					January	February	March	April	May	June							
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.															The activity is completed in 2020	
	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																The activity is completed in 2020
Output 1.1, total GEF, Direct Cash Transfer:					0	0	0									0	
Output 1.1, total GEF:					0	0	0										0
Output 1.2: Formulated and enforced Secondary Legislation																	
Activities	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)																
	1.2.2.1: Development of electronic tool (software) for calculation of the economically feasible tariff for wind energy projects															The activity is completed in 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.															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															The activity is completed in 2020	
	1.2.5: Negotiate Investment Agreements for Project Pool with a single tariff rate for the entire Project Pool.															The activity is completed in 2019	
	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.																The activity is completed in 2019
	1.2.6.2. Preparation of draft regulatory legal acts for submission to the law-making body, contributing to the formation of tariff schemes for wind energy, taking into account the system of "green certificates".																The activity is completed in 2020
	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																The activity is completed in 2018	

Activities

3.1.10.4	Organization of a training (webinar) on maintenance and repair of wind turbines in the context of the COVID-19 pandemic.																			
3.1.11:	Securing permission for the selected sites; installment of meteorological towers of 98 m in height (or other equipment)																			
3.1.11.1.	Wind parameters measurement at the selected sites																			
3.1.11.2.	Dismantling of wind measurement equipment																			
3.1.11.3.	Preventive and corrective maintenance of the meteorological equipment																			
3.1.11.4.	Calibration of wind measurement equipment																			
3.1.11.5.	Procurement of meteorological temperature profilers to complete formation of the national wind measurement capacity	pers/days	2	120.00					120	120										
3.1.11.6.	Procurement of instruments for measuring wind parameters (such as LIDAR)	set of equipment	2	166,450.00																332900
		pers/days	6	94.00																564
		services	3	600.00																1800
		pers/days	10	120.00					120	120	120									840
		pers/weeks	4	600.00				600	600	600	600									
		pers/weeks	8	500-600				1000	1000	1000	1000									2000
3.1.12:	WPFI would begin the permitting, Power Purchase Agreement, and grid connection processes with the relevant agencies.																			
3.1.12.1.	Developing WPFI capacity																			
3.1.13:	Working with WPFI on a preliminary site layout that includes flexibility on turbine choice.																			
3.1.13.1.	Conducting a training seminar on the peculiarities of the operation of wind turbines in the cold season.	service	1	3300																3300
		pers/days	2	120																240
3.1.14:	Environmental report for Investors.																			
3.1.14.1.	Analysis of existing practices for monitoring and assessing the impact of wind farms on birds and bats.																			
3.1.14.2.	Elaboration fo the methodology for fauna species monitoring at wind power development in Belarus																			
3.1.14.3.	Undertaking assessment of the impact of wind farms on monitoring sites at different stages of the life cycle of birds and bats																			
3.1.15:	The Project jointly with Wind Energy Support Unit performs Pro Forma analysis on the selected projects and calculates the minimum tariff required to support the financing and construction of all of the selected projects including those from private developers.																			
3.1.16:	The Project jointly with Wind Energy Support Unit negotiates draft Investment Agreement with the Ministry of Economy using the tariff calculated in 3.1.15 above and co-ordinates with other relevant ministries.																			
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).																			

MNREP

62000

10003

																					The activity is completed in 2020
																					0
																					The activity is completed in 2018
																					The activity is completed in 2018
																					The activity is completed in 2018
																					0
																					Activity is completed in 2019
71300	National consultants**																				240.00
																					1. The three meteorological temperature profilers procured in 2020 are transferred to Belhydromet and its territorial units in accordance with the national legislation and the project implementation procedures. 2. Strengthened national capacity for conducting wind measurements in order to update the data of Wind Atlas of Belarus as well as identify the sites appropriate for wind energy development.
72200	Equipment and Furniture**																				332,900.00
																					1. The lidars are registered in the National Registry of the measurement devices of the Republic of Belarus. 2. The lidars are transferred to Belhydromet and its territorial units in accordance with the national legislation and the project implementation procedures. 2. The national capacity for conducting wind measurements is formed.
71600	Local travel*																				564.00
72130	Contract services - companies (transportation cost)**																				1,800.00
71300	National consultants**																				1,200.00
71300	National consultants**																				2,400.00
71810	Contractor services - individuals long term**																				5,000.00
																					The activity is completed in 2020
																					The activity is completed in 2019
																					The activity is completed in 2020
72100	Contract services - companies																				3,300.00
																					1. The data on the operation of the wind power plant in the cold season, when the blades icing occurs, are collected. 2. Analysis of the information received is made to determine the losses (in percent) from the lack of electricity due to icing of the blades of the wind turbine; 3. Analysis of possible ways of combating icing of blades for turbines already built in the Republic of Belarus is carried out. 4. Training materials prepared - lecture text, presentation slides. 5. An online seminar on the peculiarities of the operation of wind turbines in the cold season organized and conducted.
71300	National consultants**																				240.00
																					The activity is completed in 2020
																					The activity is completed in 2020
																					The activity is completed in 2020
																					The activity is completed in 2017.
																					The activity is completed in 2018.
																					The activity is completed in 2018.

Activities	Project Management	month	6	20	20	20	20	20	20	MNP	62000	10003	72420	Communication services**	120	2. Target indicators defined in the project documentation are achieved. 3. Reports required on Project implementation and completion are prepared and sent in due course to MNREP, UNDP and the Ministry of Economy. 4. The data necessary to reflect the progress and completion of the project in the ATLAS system are prepared and handed over to UNDP. 5. The spot check of the project for the financial year of 2020-2021 is undertaken, a relevant report is prepared and submitted to UNDP and MNREP. 6. UNDP supporting services are provided to the project. 7. The equipment procured under the Project is transferred to the ultimate beneficiary in accordance with the UNDP procedures and the national legislation on international technical assistance.
		month	6	100	100	100	100	100	100				100	73310	Accounting/legislation software maintenance**	
		sevice	1	2600						2600			74110	Professional Services*	2600	
							14.30	100.00	100.00	300			74559	Repayment of UNDP expenses*	514	
		Project management, total GEF:		120	120	2334	220	220	3020						6034	
		sevice	1	661,78						661,78			74110	Professional Services*	661,78	
		Project management, total TRAC:		0	0	0	0	0	661,78						661,78	
Total for Project Management, UNDP services for project implementation :				0.00	0.00	14.30	100.00	100.00	3.562						3,776	
Total for Project Management, Direct Cash Transfer**:				120.00	120.00	2,320.00	120.00	120.00	120						2,920	
Total Project Management:				120.00	120.00	2,334.30	220.00	220.00	3,682						6,696	
Total for Project Management/GEF, UNDP services for project implementation :				0.00	0.00	14.30	100.00	100.00	2,900						3,114	
Total for Project Management/GEF, Direct Cash Transfer**:				120.00	120.00	2,320.00	120.00	120.00	120						2,920	
Total Project Management/GEF:				120.00	120.00	2,334.30	220.00	220.00	3,020						6,034.30	
Total for Project Management/GEF, UNDP services for project implementation :				0.00	0.00	0.00	0.00	0.00	661,78						661,78	
Total Project Management/UNDP:				0.00	0.00	0.00	0.00	0.00	661,78						661,78	
TOTAL PROJECT:				740.00	1,340.00	6,474.30	5,340.00	341,564.00	52,756						408,213.92	
Total Project, UNDP services for project implementation :				0.00	0.00	14.30	100.00	664.00	25,462						26,240.08	
Total Project, Direct Cash Transfer**:				740.00	1,340.00	6,460.00	5,240.00	340,900.00	24,747.12						379,427	
Total Project, Direct Cash Transfer:				0.00	0.00	0.00	0.00	0.00	2,546.72						2,547	
TOTAL PROJECT/GEF:				740.00	1,340.00	6,474.30	5,340.00	341,564.00	52,094						407,552.14	
Total Project/GEF, UNDP services for project implementation :				0.00	0.00	14.30	100.00	664.00	24,800.00						25,578.30	
Total Project/GEF, Direct Cash Transfer**:				740.00	1,340.00	6,460.00	5,240.00	340,900.00	24,747.12						379,427.12	
Total Project/GEF, Direct Cash Transfer:				0.00	0.00	0.00	0.00	0.00	2,546.72						2,546.72	
TOTAL PROJECT/UNDP:				0.00	0.00	0.00	0.00	0.00	661,78						661,78	
Total Project/GEF, UNDP services for project implementation :				0.00	0.00	14.30	100.00	664.00	661,78						661,78	

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