

APPROVED BY:

UNDP Deputy Resident Representative Armen Martirosyan

Date



Project title: Removing Barriers to Wind Power Development in Belarus

Project number: 00087557

Year: 2020

- 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 WPF1 and WESU.
 - 5) Verification of Wind Atlas of Belarus.

Annual Work Plan

APPROVED BY:

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

Date



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	Q3	November	December							
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.	service	1	26 543	0	201,35	26 342,12	0	0	MNREP	62000	10003	72100	Contract services - companies	26 543	1. The perspectives of development of interstate markets of energy produced from renewable sources and the possibilities of participation of the Belarusian energy producers in these markets are analyzed. 2. The risks associated with the development of requirements towards the share of electrical energy produced by RES and used in the production of the goods exported to the markets of Europe and other countries are identified. 3. Justification of the introduction of the renewable energy certification system in the Republic of Belarus is prepared and discussed with the stakeholders. 4. Proposals with the draft legal acts, which endorse the renewable energy certification system are developed and approved by the stakeholders. 5. Report on the development of the legal and institutional framework for the establishment of the renewable energy certification system in the Republic of Belarus is prepared and approved by MNREP.
		pers/week	26.44	500	0	4 536	4 536	1 812	2 337				71300	National consultants	13221	
	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 materials developed as part of Activity 1.1.3 are available on the project website to clarify the significance of the green energy certification system.
	Output 1.1, total GEF, Direct Cash Transfer:					0	4 737	30 878	1 812	2 337						39 764
	Output 1.1, total GEF:					0	4 737	30 878	1 812	2 337						39 764
Output 1.2: Formulated and enforced Secondary Legislation																
1.2.1: Conduct jointly with Wind Energy Support Unit Pro-forma* economic calculations for WPF1'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	pers/week	9.07	500	0	0	4 536	0	0	MNREP				71300	National consultants	4 536	1. Terms of reference were prepared for the development of an electronic tool for calculating an economically feasible tariff for wind power projects. 2. The activity was canceled due to the legislation being developed in the Republic of Belarus, which implies the introduction of elements of the electricity market. Thus, the development of an electronic tool (software) for calculating an economically feasible tariff for wind power projects has lost its relevance at the moment.
1.2.3: The Project jointly with WESU will develop and present projects from WPF1 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 WPF1 Project Pool	days	5	85	0	0	0	0	425	UNDP				71600	Local travel**	425,00	The project and WESU have negotiated the inclusion of private investors projects in the WPF1 project pool to enhance the installed capacity of wind power installations created based on the pre-investment asset developed under the Project.
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

2.1.3: Preparation and dissemination of promotional materials on wind energy.																
Activities	2.1.3.2. Study trips to at least two European countries with highly developed wind power sector for a group of decision makers												Activity is completed in 2016			
	2.1.3.3. Preparation of informational materials on wind energy (articles, review, factsheets etc.)												Activity is completed in 2016-2018			
	Output 2.1, total GEF, Direct Cash Transfer:												0			
	Output 2.1, total GEF:												0			
Output 2.2: Specialized local engineering																
Activities	2.2.1: The project tenders in Output 3.1 will stipulate that whenever possible, local contractors, subcontractors, and engineers must be used.	pers/week	4.4	500							2 200			2 200	1. A comprehensive analysis of the performance of local contractors, subcontractors and engineers in the Project implementation is made. 2. The impact of their activity on the wind energy development in Belarus is assessed. 3. A relevant report is prepared and approved by MNREP.	
		pers/week	2.4	500	1 200									1 200		
	Output 2.2, total GEF, UNDP services for project implementation :															
	Output 2.2, total GEF, Direct Cash Transfer:														3 400	
Output 2.3: Introduce RE related curricula at Universities																
Activities	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.														Activity is completed in 2017	
	2.3.1.1: Organization of training for wind energy specialists with the programme WindPro														Activity is completed in 2019	
	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.														The activity is cancelled due to COVID-19 travel restrictions as the physical presence of the consultant to assess the material and technical capacity (equipment, premises etc) of the potential candidate to host a Global Wind Organization Center is required.	
	2.3.1.3: Development of a work programme for the emerging courses in technical secondary educational establishments relating to wind power development and maintenance															
2.3.2: Analysis of Global Wind Organization requirements to the establishment of a GWO training center																
Output 2.3, total GEF, Direct Payment :														0		
Output 2.3, total GEF, Direct Cash Transfer:														0		
Output 2.3, total GEF:																
2.4: Completed support for ancillary services																
Activities	2.4.1: Organization of the workshop on various options for the development of power system balance in Belarus														The activity is completed in 2018.	
	2.4.2: Organization of GWO training on wind energy security and maintenance.														The activity is completed in 2019.	
	Output 2.4, total GEF, Direct Payments:														0	
	Output 2.4, total GEF, UNDP services for project implementation :														0	
Output 2.4, total GEF, Direct Cash Transfer:														0		
Output 2.4, total GEF:																
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														The activity is completed in 2017.	
	2.5.1.2. Production of an educational/promotional video-clip on the wind power issues													0	The activity is completed in 2018.	
	2.5.1.3. Finalization and publication of technical guidebooks on wind energy														The activity is completed in 2019.	
	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.													0,00		
	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"													0	Activity is completed in 2019	
	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.													0	Activity is completed in 2019	
	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													0	Activity is completed in 2019	
2.5.2.4. Production of video clips that reflect the construction and / or operation of the wind farms as well as other aspects of wind energy development	service	1	11963.69	3461,21	347,48	6 755,00							74200	Audio Visual&Print Prod Costs	11 963,69	6 video clips that reflect inter alia the construction and / or operation of the wind farm, according to the guidelines developed within the project ("Main stages of the implementation of the investment project on wind energy", "Guidelines for conducting state environmental impact assessment procedures for wind energy projects") is created.

Activities	Description	Unit	Quantity	Cost (USD)	Cost (GEF)	Cost (USD)	Cost (GEF)	Cost (USD)	Cost (GEF)	Cost (USD)	Cost (GEF)	Remarks	
2.5.2.5.	Translation from / into English of the manuals, reports and instructions developed under the project	service	1	2 212,71		212,71		500,00		500,00		1 000,00	Manuals, reports and instructions developed under the project are translated from into English.
2.5.2.6.	Translation, editing and preparing the design of the updated Procedural Guidelines for Wind projects developers	service	1	509,91	509,91								
2.5.2.7.	Preparation and publication of information materials for the webinar for women on procedural guidelines for the implementation of a project on wind energy (and other types of RES)		1	3000						3000			Based on the results of the webinar for women on procedural guidelines for the implementation of a project on wind energy (and other types of RES), information materials were prepared and published on the Internet.
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.													
2.5.3.1	Organization of training (webinar) on EIA and State ecological expertise of wind power projects and other renewables projects, such as solar panels and biogas.	service	1	3 400,00				3 400,00					1. At least 10 specialists from Belarusian companies - owners of renewable energy sources installations, planning and design organizations and others increased their knowledge of the recent legal amendments in EIA and State ecological expertise in distant, sound way of training. 2. A file with presentations, training materials and contact information of experts made available to the training participants as well as other stakeholders.
2.5.3.2	Preparation of the materials of the training (lectures, Power point presentations) on EIA and State ecological expertise of wind power projects and other renewables projects	pers/week	3	600,00				1 800,00					Training materials (lectures, power point presentations) are prepared, approved by MNREP and used in a series of webinars on EIA and State ecological expertise of wind projects
2.5.3.3.	Review of the manual for conducting EIA and state ecological expertise.		2	600,00						1 200,00			Two independent expert reviews of the Manual on EIA and State Environmental Expertise for renewable energy projects are made.
2.5.3.4.	Development of design and printing of a manual for conducting EIA and state ecological expertise of renewable energy projects		1	3 600,00				3 600,00					1. The design of the Manual for EIA and State Ecological Expertise is developed. 2. The manual for conducting EIA and state ecological expertise is printed with a circulation of at least 100 copies.
2.5.3.5.	Translation and editing of the manual for conducting EIA and state environmental expertise of renewable energy projects		1	1 000,00				1 000,00					Manual on EIA and State Environmental Expertise is translated into English and revised
Output 2.5, Direct Cash Transfer, total:					3 971,12	560,19		17 055,00		4 700,00		2 400,00	
Output 2.5, total:					3 971,12	560,19		17 055,00		4 700,00		2 400,00	28686,31
Output 2.5, total GEF, Direct Cash Transfer:					3 971,12	560,19		17 055,00		4 700,00		2 400,00	28686,31
Output 2.5, total GEF:					3 971,12	560,19		17 055,00		4 700,00		2 400,00	28686,31
Total for outcome 2, Direct Payments:					0,00	0,00		0,00		0,00		0,00	0,00
Total for outcome 2, UNDP services for project implementation :					0,00	0,00		0,00		0,00		0,00	0,00
Total for outcome 2, Direct Cash Transfer:					5 171,12	560,19		17 055,00		4 700,00		4 600,00	32086,31
Total for outcome 2:					5 171,12	560,19		17 055,00		4 700,00		4 600,00	32086,31
Total Outcome 2, GEF, Direct Payments					0,00	0,00		0,00		0,00		0,00	0,00
Total for outcome 2, GEF, UNDP services for project implementation					0,00	0,00		0,00		0,00		0,00	0,00
Total Outcome 2/ GEF, Direct Cash Transfer, GEF:					5 171,12	560,19		17 055,00		4 700,00		4 600,00	32086,31
Total for outcome 2/GEF:					5 171,12	560,19		17 055,00		4 700,00		4 600,00	32086,31
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.												The activity is completed in 2017.
3.1.1.1.	WESU will build on its policy making capacity by demonstration of the efficiency of the use of renewable energy sources on the basis of the premises of cultural-educational center "House of Poleshuk" of the National Park Pripyatski												The activity was canceled due to the impossibility of placing a wind power plant on the territory of the administration of the Pripyatsky National Park without conducting annual monitoring of the avifauna and bats inhabiting this area.
3.1.1.1.1	Creation of a demonstration complex consisting of small wind turbines on the basis of the cultural-educational center "House of Poleshuk" of the National Park Pripyatski												The activity was canceled due to the impossibility of placing a wind power plant on the territory of the administration of the Pripyatsky National Park without conducting annual monitoring of the avifauna and bats inhabiting this area.
3.1.2:	Finalize the legal form and administrative criteria of the WPF1.												The activity is completed in 2016
3.1.3:	Finalize the agreement between the WESU and the WPF1 in the manner most conducive to operation in current conditions in Belarus.												The activity is completed in 2018.
3.1.4:	Conduct a tender to select an engineering firm to form the WPF1 using generally accepted international standards for such tenders.												The activity is completed in 2016
3.1.5:	Seek additional contributors to the funding of the WPF1 in order to extend the range of WPF1 capabilities.												
3.1.5.1.	Undertaking a market research on enhancing energy consumption and export of green energy in Belarus	service	1	33 430		470		32 960		0		0	
3.1.5.1.1.	Development of measures to enhance the consumption of "green" energy in Belarus and the range of WPF1 services on pre-development solutions												1. A number of proposals on development of new energy consuming enterprises (primarily green energy), which will provide for the growth of demand for "green" energy. 2. Rosters of potential investors and clients for Belarusian "green" energy are compiled. 3. A business plan of WPF1 on extending the services on pre-investment solutions for the investors is prepared and approved by the founder of WPF1.
3.1.5.1.2.	Development of a strategy to popularize the use of "green" energy by households.												A strategy of popularization of green energy among population is developed and approved by MNREP.
3.1.5.1.3.	Preparing proposals for the Government of Belarus to increase the use of electrical energy produced by renewable energy sources primarily wind												Concrete proposals to the Council of Ministers of Belarus on decisions providing for enhance of energy use and elimination of this barrier for the further wind power development are prepared.

MNREP

62000

10003

