APPROVED BY:

UNDP Deputy Resident Representative Armen Ma

Removing Barriers to Wind Power Development in Belarus 00087557 2020

Project title: Project number: Year: 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.

Annual Work Plan

APPROVED BY: Aliaksandr Korbut Deputy Minister of Natural R

v	Description	Unit of	Quantity	Unit cost			Activities			Implementing	Fund	Danie		A account to the state	Planned financial	
		measure-ment	Quantity	Oint cost	Q1	Q2	Q3	November	December	Agent/ Responsible Party	Fund	Donor	Account	Account description	resources, USD	Annual outputs
Seco	ondary Legislation is in place to support wind energy with the support of the project															
Devel	elop and agree provisions for institutional infrastructure based on the best European pract	tice and policies,	in particular f	or the State RE	S Cadastre,	RES Inventory,	and validation s	ystems.								
	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
		service	1	26 543	(201,35	26 342,12	(0				72100	Contract services - companies		The perspectives of development of interstate markets of energy produced from renewable sources and the possibilities of participation of the Belarusian energy p in these markets are analyzed. 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 export
	1.1.3: Provide a timeline for the future implementation of the certification system.	pers/week	26.44	500	(4 536	4 536	1 812	2 337	MNREP	62000	10003	71300	National consultants	13221	markets of Europe and other countries are identified. 3. Justification of the introduction of the renewable energy certification system in Republic of Belarus is prepared and discussed with the stakeholders. 4. Proposals with the draft legal acts, which endorse the renewable energy certific system are developed and apporved 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 Bela prepared and approved by MNREP.
	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	1.1.4.1. Organization of the workshop on discussion of the overriding issues of wind energy development (inleuding the issues of the imporved 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 web clarify the significance of the green energy certification system.
	Output 1.1, total GEF, Direct Cash Transfer:			-	0	4 737	30 878	1812	2 337						39 764	,
	Output 1.1, total GEF: nulated and enforced Secondary Legislation				0	4 737	30 878	1 812	2 337						39 764	
	1.2.1: Conduct conjointly with Wind Energy Support Unit Pro-forma* economic calculations for WPFI's projects supporting proposals for tariff schemes													-		Activity is completed in 2015
1	1.2.2: The Project conjointly 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)						z.									
	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		MNREP			71300	National consultants	4 536	 Terms of reference were prepared for the development of an electronic tool for calculating an economically feasible tariff for wind power projects. The activity was canceled due to the legislation being developed in the Republic Belarus, which implies the introduction of elements of the electricity market. Thus development of an electronic tool (software) for calculating an economically feasil for wind power projects has lost its relevance at the moment.
	1.2.3: The Project conjointly with WESU will develop and present projects from WPFI to the Ministry of Economy with suggested tariff schemes.	pers/week														Activity is compeleted in 2017
	1.2.4: The Project conjointly with WESU will negotiate with private developers, including women, for the inclusion of private projects into the WPFI Project Pool	days	5	85		0	0	0	425	UNDP			71600	Local travel**	1 1	The project and WESU have negotiated the inclusion of private investors projects WPFI project pool to enhance the installed capacity of wind power installations caused on the pre-investment assest developed under the Project.
1 P	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.											F			1	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".	pers/week	9.6	500				300	00,000		04000	00012	71300	National consultants	4 80	The analysis of the National Greenhouse Gas Inventory System is carried out in order to identify non-compliance with the current regulatory documents of the UNFCCC, as well as to determine the potential of this system for the implementation of "green" certificates. A regulatory legal act (regulatory legal acts) is prepared and submitted to the Council of Ministers of the Republic of Belarus, which determines the procedure for the inventory of greenhouse gases, the procedure for the creation and operation of an information system for accounting for emissions and absorption of greenhouse gases, the procedure
		pers/week	10	500				500	0				71300	National consultants	5 000	for maintaining the state inventory of greenhouse gases, the procedure for creating and maintaining a database data for the development of programs and measures to reduce emissions and increase absorption of greenhouse gases. 3. A plan is prepared for the adoption of other regulatory legal acts, including those, which were developed within the framework of the Project in order to introduce "green" certification of energy produced by RES.
	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					and the state of t				MNREP						
	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
ļ	1.2.7.2. Testing of RAB methdology and preparation of the report on adapting the suggested tariff scheme taking into account the results of its practical testing	pers/week														The event 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 tarif for wind power projects of wind power has lost its relevance at the moment.
	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.															
	1.2.8.1. Comparative analysis of the RAB methodology for the tariff formation and the current tariff scheme for wind energy projects															The event 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 tarif for wind power projects of wind power has lost its relevance at the moment.
1	1.2.8.2. Analysis of the impact that the project activities including those relating to the tariff schemes made on the development of wind energy in Belarus, preparation of proposals for the development of the Project subject in further projects and activities		8.4	500					4 200				71300	National consultants	4 200	1. The analysis of the impact that the project activities including those relating to the tariff schemes made on the development of wind energy in Belarus is prepared and the relevant report is approved by MNREP. 2. Two concept projects have been prepared, which could be a continuation of the activities implemented within the framework of this project and aimed at preventing climate change, developing renewable energy 3. Project exist strategy is prepared and approved by MNREP.
	Output 1.2, total UNDP, UNDP services for project implementation:		!	-	0	0	0	0	425		-				425	
	Output 1.2, total UNDP, Direct Cash Transfer: Output 1.2, total UNDP:				0	0	4 536								18 536	
		Output 1.2, tota	I UNDP:		0	0	4 536 4 536				-				18 961 18 961	
	mproved Technical Norms and Standards her with the project, will support the introduction of new and improved technical norms b								· · · · · · · · · · · · · · · · · · ·			·			10701	
1	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	y providing the	most up to date	e techniques for	wind turbine	positioning, wir	nd farm to grid	connection inter	r alia.							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
<u>با</u> ي	1.3.1.3. Development of the drafts of the technical regulatory documents accroding to the terms of reference developed under item 1.3.1.2.									MNREP	62000	10003				Activity is completed in 2018.
5 L	1.3.1.4. Organization of the conference on technical standards in Wind power development 1.3.1.5. Organization of the workshop on the issues of RES impact on climate change															The activity is completed in 2017.
ı	mitigation 1.3.1.6. Informing the stakeholders on the investment tender by publishing and distributing											-				Activity is completed in 2018.
t C	teasers, informational leaflets Output 1.3, total GEF, Direct Cash Transfer: Output 1.3, total GEF:				0	0	0		0						0	The activity is implemented in the first half of 2019.
-	Output 1.3, total;				0	0	0		0						0	
	d Private Finance Initiative (WPFI) created and operational								01					* * * * * * * * * * * * * * * * * * * *	0	
ន [1.4.1: Finalizing Terms of Reference for WPFI 1.4.2: Finalizing Terms of Reference for staff and hiring WPFI Staff															Activity is completed in 2015 Activity is completed in 2016
ctiviti																
۲ ر	Output 1.4, total GEF:				0	0	0	9812	425 8 337						425	
for outcome 1					0	, 757	25 43 41		1 8 51/1		1 1				58 300	
for outcome I for outcome I for outcome I	Output 1.4, total GEF: 1. UNDP services for project implementation: 2. Direct Cash Transfer: 1.				0	4 737 4 737	35 414 35 414					I				
for outcome I for outcome I for outcome I for outcome I	Output 1.4, total GEF: 1. UNDP services for project implementation: 2. Direct Cash Transfer: 1. UGEF, Direct Cash Transfer:				0 0 0	4 737 4 737	35 414 30 878	9 812 / 8/2	8 762 2 337						58 725 39 764	
for outcome 1	Output 1.4, total GEF: , UNDP services for project implementation : , Direct Cash Transfer: :				0 0 0 0	4 737	35 414	9 812	8 762 2 337 2 337						58 725 39 764 39 764	
for outcome I	Output 1.4, total GEF: , UNDP services for project implementation : , Direct Cash Transfer: :				0 0 0 0	4 737 4 737	35 414 30 878 30 878 0 4 536	9 812 1 812 1 812 0 8 000	8 762 2 337 2 337 425 6 000						58 725 39 764	
for outcome I for outcome	Output 1.4, total GEF: UNDP services for project implementation : Direct Cash Transfer:	d farms are de-	elaned George	all and accept	0	4 737 4 737 4 737 0 0	35 414 30 878 30 878 0	9 812 / 8/2 1 812 0	8 762 2 337 2 337 425 6 000						58 725 39 764 39 764 425	
for outcome I for outcome 2: Reduc	Output 1.4, total GEF:	d farms are deve	eloped, finance	ed, and eventual	0	4 737 4 737 4 737 0 0	35 414 30 878 30 878 0 4 536	9 812 1 812 1 812 0 8 000	8 762 2 337 2 337 425 6 000						58 725 39 764 39 764 425 18 536	
for outcome I fo	Output 1.4. total GEF: UNDP services for project implementation : Direct Cash Transfer: GEF, Direct Cash Transfer: I/GEF: UNDP UNDP services for project implementation : UNDP UNDP services for project implementation : UNDP Direct Cash Transfer: UNDP UNDP Services for project implementation : UNDP UNDP UNDP Services for project implementation : UNDP UNDP UNDP Services for project implementation : UNDP UNDP UNDP UNDP Services for project implementation : UNDP UNDP UNDP UNDP UNDP UNDP UNDP UNDP	d farms are deve	eloped, finance	ed, and eventual	0	4 737 4 737 4 737 0 0	35 414 30 878 30 878 0 4 536	9 812 1 812 1 812 0 8 000	8 762 2 337 2 337 425 6 000						58 725 39 764 39 764 425 18 536 18 961	Activity is compeleted in 2016-2019.
for outcome I 2: Reduc	Output 1.4, total GEF:	d farms are deve	eloped, finance	ed, and eventual	0	4 737 4 737 4 737 0 0	35 414 30 878 30 878 0 4 536	9 812 1 812 1 812 0 8 000	8 762 2 337 2 337 425 6 000						58 725 39 764 39 764 425 18 536 18 961	Activity is compeleted in 2016-2019.

2132	ssemination of promotional materials on wind energy. Study trips to at least two European countries with highly developed wind power	1	T	T	Г			T			1	T	T	T		TA () 1 1 2016
	or a group of desicion makers								Value of the second of the sec						***	Activity is completed in 2016
	Preparation of informational materials on wind energy (articles, review, factsheets									MNREP	62000	10003				Activity is completed in 2016-2018
Output	2.1, total GEF, Direct Cash Transfer:															
	2.1, total GEF:				0	0	-	0	0		-	ļ		<u> </u>		0
	2.1, total GEF:				0	0	<u>'</u>	0[0	L		.L	L			
2.2.1: Th	he project tenders in Output 3.1 will stipulate that whenever possible, local		T	Т	T			T	10.000000000000000000000000000000000000		1	T	Γ			1. A comprehensive analysis of the performance of local contractors, subcontract
	ors, subcontractors, and engineers must be used.	pers/week	4.4	500	Margaret Language				2 200				71300	National consultants	2 20	engineers in the Project implementation is made.
		pers/week	2.4	500	1 200		A Company of the Comp			MNREP	62000	10003	71300	National consultants	1 20	The impact of their activity on the wind energy development in Belarus is asses A relevant report is prepared and approved by MNREP.
Output 2	2.2, total GEF. UNDP services for project implementation:	L	<u> </u>		2011 F-0011			 	-				ļ			
Output 2	2.2, total GEF, Direct Cash Transfer:				1 200	0		0	2 200						3 400	
	2.1, total GEF:				1 200	0		0	2 200						3 400	
Introduce RE	Erelated curricula at Universities		· · · · · · · · · · · · · · · · · · ·													
support of Sakharov 2.3.1.1: 0 2.3.1.2, 0	ne project tenders, wherever possible, will contain provisions for continued local of the projects from local technical universities such as the International State v Environmental University. Organization of training for wind energy specialists with the programme WindPro Carrying out training in France for meteorologists on modern software products that is the quality of weather forecasts used to predict the generation of energy from the															Activity is completed in 2017
2.3.1.3: [education	Development of a work programme for the emerging courses in technical secondary nal establishments relating to wind power development and maitenance															Activity is completed in 2019
training c																The activity is cancelled due to COVID-19 travel restrictions as the physical press the consultant to assess the material and technical capacity (equipment, premises the potential candidate to host a Global Wind Organization Center is required.
	.3, total GEF, Direct Payment:				0	0	(0	0						0	
	3, total GEF, Direct Cash Transfer:				0	0	(0	0		1				0	
	2.3, total GEF: r ancillary services			L	0	. 0	<u> </u>	0	0		L	L		· · · · · · · · · · · · · · · · · · ·		
			T	г										T		
2.4.1.Org balance ii	ganization of the workshop on various options for the development of power system n Belarus				and the state of t											The activity is completed in 2018.
2.4.2. Or	ganization of GWO training on wind energy security and maintenance.															The activity is completed in 2019.
1	5			j l												
Output 2.	4, total GEF, Direct Payments:		1		0	0	-)			+					
Output 2.	4, total GEF, UNDP services for project implementation:				0	0	0		0							
	4, total GEF, Direct Cash Transfer:				0	0	0		0						0	
	2.4, total GEF:				0	0	(D	0						0	
and publish																1
2.5.1: Pro	oduce guidebook containing template guidelines for future wind energy development				1											
			ļ					ļ								
2.5.1.1. 1	Presentation of the DREI study							1								The activity is completed in 2017.
2.5.1.2.Pr	roduction of an educational\promotional video-clip on the wind power issues							<u> </u>								The activity is completed in 2018.
															0	the activity is completed in 2018.
2512 5	inalization and publication of tack air-land distribution of							1	ļ							
2.J.1.3. F	inalization and publication of technical guidebooks on wind energy							<u> </u>								The activity is completed in 2019.
2.5.2: The	e Project Management Unit will create Procedural Guidelines based on Activity 3.2														0,00	
	provide future developer's with a template. This activity will also provide future		 	<u> </u>				 								
Regulator	's with guidelines for empirically setting FiT levels.			1				İ							0,00	
	Revision and updating of the Manual to the procedures "The main stages of the															Activity is completed in 2019
2.5.2.1.	implementation of the project on wind energy"										1				0	
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									MNREP	62000	10003			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	-	1 400,00	winker	62000	10003	74200	Audio Visual&Print Prod Costs	11 963 69	6 video clips that reflect inter alia the construction and / or operation of the wind for according to the guidelines developed within the project ("Main stages of the implementation of the investment project on wind energy", "Guidelines for conductate environmental impact assessment procedures for wind energy projects") is created.

										7						
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				72100	Contract services - companies	2 212,71	Manuals, reports and instructions developed under the project are trasnlated in English.
					÷::::1111	- 1				Name and American Ame		-				
2.5.2.6.	Translation, editing and preparing the design of the updated Procedural Guidelines for Wind projects developers	service	ı	509,91	509,91								72100	Contract services - companies	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					74200	Audio Visual&Print Prod Costs	3 000,00	Based on the results of the webinar for women on procedural guidelines for implementation of a project on wind energy (and other types of RES), informaterials were prepared and published on the Internet.
	uidelines on EIA of wind power development projects will be developed. Belarusian sts will be trained on how to conduct EIA of wind power projects.							C085-227-4 C225 (2506-5) 58		-						The activity is completed in 2017.
2.5.3.1	Organization of training (webinar) on EIA and State ecological expertise of			-				VARIATE VETTER				-			-	At least 10 specialists from Belarusian companies - owners of renewable
	wind power projects and other renewables projects, such as solar panels and biogas.	service	1	3 400,00			3 400,00						72100	Contract services - companies		sources installations, planning and design organizations and others increas knowledge of the recent legal amendments in EIA and State ecological explicit distant, sound way of training. 2. A file with presentations, training materials and contact infromation of eavailable 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						71300	National consultants	1 800,00	Training materials (lectures, power point presentations) are prepared, appr MNREP and used in a series of webinars on EIA and State ecological exp projects
2.5.3.3.	Review of the manual for conducting EIA and state ecological expertise.		2	600,00				1 200,00					71300	National consultants	1 200,00	Two independent expert reviews of the Manual on EIA and State Environ Expertise for renewable energy projects are made.
2.5,3,4,	Development of design and printing of a manual for conducting EIA and state														-	1 The deline Ca. Manual Co. Fixe. 10 or F. 1 of the Ca. Ca.
	ecological expertise of renewable energy projects		1	3 600,00			3 600,00						72100	Contract services - companies	3 600,00	The design of the Manual for EIA and State Ecological Expertise is dev The manual for conducting EIA and state ecological expertise is printed 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		ì	1 000,00			1 000,00						72100	Contract services - companies	1 000,00	Manual on EIA and State Environmental Expertise is translated into Engli
Output 2.	2.5, Direct Cash Transfer, total:				3 971,12	560,19	17 055,00	4 700,00	2 400,00						28686,31	
Output 2.	2.5, total:				3 971,12	560,19	17 055,00	4 700,00	2 400,00		++				28686,31	
	2.5, total GEF; Direct Cash Transfer: 2.5, total GEF:				3 971,12	560,19	17 055,00	4 700,00	2 400,00						28686,31	
	t Payments:				3 971,12 0,00	560,19 0,00		4 700,00 0,00	2 400,00 0.00		-				28686,31 0.00	
					0.00	0.00		0.00	0,00						0,00	
ie 2, UNDP	P services for project implementation:	····														
ie 2, UNDP	P services for project implementation : Cash Transfer:	****			5 171,12	560,19		4 700,00	4 600,00						32086,31	
ne 2, UNDP ne 2, Direct (me 2: 2, GEF, Direc	t Cash Transfer: ect Payments				5 171,12 5 171,12 0,00	560,19 560,19 0,00	17 055,00		4 600,00 4 600,00 0,00						32086,31 32086,31 0,00	
ne 2, UNDP ne 2, Direct (me 2: 2, GEF, Direct ne 2, GEF, U	Cash Transfer: ect Payments UNDP services for project implementation				5 171,12 0,00 0,00	560,19 0,00 0,00	17 055,00 0,00 0,00	4 700,00 4 700,00 0,00 0,00	4 600,00 0,00 0,00						32086,31 0,00 0,00	
ne 2, UNDP ne 2, Direct (me 2: 2, GEF, Direc ne 2, GEF, U 2/ GEF, Direc me 2/GEF:	t Cash Transfer: ect Payments UNDP services for project implementation ect Cash Transfer, GEF:				5 171,12 0,00 0,00 5 171,12 5 171,12	560,19 0,00 0,00 560,19 560,19	17 055,00 0,00 0,00 17 055,00 17 055,00	4 700,00 4 700,00 0,00	4 600,00 0,00 0,00 4 600,00						32086,31 0,00	
ne 2, UNDP ne 2, Direct (me 2: 2, GEF, Direc ne 2, GEF, U 2/ GEF, Direc me 2/GEF: nd Energy P	Cash Transfer: ect Payments UNDP services for project implementation ect Cash Transfer, GEF: Project Technical Assistance Facility is established to support the WPFI investmen	nt in and the dev	elopment of do	ocumentation for	5 171,12 0,00 0,00 5 171,12 5 171,12	560,19 0,00 0,00 560,19 560,19	17 055,00 0,00 0,00 17 055,00 17 055,00	4 700,00 4 700,00 0,00 0,00 4 700,00	4 600,00 0,00 0,00 4 600,00						32086,31 0,00 0,00 32086,31	
ne 2, UNDP ne 2, Direct (me 2: 2, GEF, Direct ne 2, GEF, Urect ne 2/GEF; nd Energy P mpleted supp	c Cash Transfer: weet Payments UNDP services for project implementation weet Cash Transfer, GEF: Project Technical Assistance Facility is established to support the WPFI investments poort provided for potential site developments week PMU supports the Ministry of Natural Resources and Environmental Protection to	nt in and the dev	elopment of de	ocumentation fo	5 171,12 0,00 0,00 5 171,12 5 171,12	560,19 0,00 0,00 560,19 560,19	17 055,00 0.00 0.00 17 055,00 17 055,00	4 700,00 4 700,00 0,00 0,00 4 700,00	4 600,00 0,00 0,00 4 600,00						32086,31 0,00 0,00 32086,31	The activity is completed in 2017.
ne 2, UNDP ne 2, Direct (me 2: 2, GEF, Direct ne 2, GEF, U 2/ GEF, Direct me 2/GEF: nd Energy P mpleted supp 3.1.1: The establish V	Cash Transfer: ect Payments UNDP services for project implementation ect Cash Transfer, GEF: Project Technical Assistance Facility is established to support the WPFI investment pport provided for potential site developments the PMU supports the Ministry of Natural Resources and Environmental Protection to WESU.	nt in and the dev	clopment of do	ocumentation fo	5 171,12 0,00 0,00 5 171,12 5 171,12	560,19 0,00 0,00 560,19 560,19	17 055,00 0.00 0.00 17 055,00 17 055,00	4 700,00 4 700,00 0,00 0,00 4 700,00	4 600,00 0,00 0,00 4 600,00						32086,31 0,00 0,00 32086,31	
ne 2, UNDP ne 2, Direct (ne 2: P. GEF, Direct ne 2, GEF, UP GEF, Direct ne 2/GEF; nd Energy P mpleted supp	c Cash Transfer: weet Payments UNDP services for project implementation weet Cash Transfer, GEF: Project Technical Assistance Facility is established to support the WPFI investments poort provided for potential site developments week PMU supports the Ministry of Natural Resources and Environmental Protection to	nt in and the dev	clopment of do	ocumentation fo	5 171,12 0,00 0,00 5 171,12 5 171,12	560,19 0,00 0,00 560,19 560,19	17 055,00 0.00 0.00 17 055,00 17 055,00	4 700,00 4 700,00 0,00 0,00 4 700,00	4 600,00 0,00 0,00 4 600,00						32086,31 0,00 0,00 32086,31 32086,31	The activity is completed in 2017. The activity was canceled due to the impossibility of placing a wind power
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3.1.5.2. Preparation of terms of reference for the development of the WPFI activities to advise the owners of renewable energy facilities on participation in the emerging electricity market	pers/week	6	600					3 600				71300	National consultants	3 600,00	A prefeasibility study is done to expand the scope of the WPFI activities (without amending the Charter and with amending the Charter), as well as an action plan is prepared for the provision of services on the participation of owners of renewable energy facilities in the emerging electricity market.
3.1.6: WPFI screens all of the Cadastre sites and selects 5 target sites based on the sites that can achieve the lowest possible energy rates.															The activity is completed in 2016
3.1.6.1. Selection of at least 20 sites on the territory of the Republic of Belarus for the creation of wind farms or smart parks (wind turbines and solar panels) based on data from the updated Wind Atlas of Belarus.		1	34 487				34 487					72100	Contract services - companies	34 487,00	1. Based on the data of the updated Wind Atlas of Belarus, at least 20 sites are selected for the construction of wind farms and smart parks (wind turbines and solar panels). 2. A preliminary assessment of the wind (and solar) potential for each site is prepared, as well as substantiation and recommendations for further research using lidars, temperature profilers, and meteorological masts with sensors are made. 3. Information about the sites to be used by potential investors and developers of wind energy projects is posted on the website windpower by, the websites of the Ministry of Natural Resources and Belhydromet, and is also forwarded to the relevant local executive and regulatory authorities.
3.1.7: As part of the pre-feasibility screening, WPFI will gain preliminary clearance from the															The optivity is correlated in 2016
Ministry of Defence, Ministry of Communication and Informatization and other relevant agencies for sitting.															The activity is completed in 2016
3.1.8: WPFI 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 mitigatin of risks related to apporval of the sites by the relevant governmental bodies	f														The activity is completed in 2016
3.1.9: Final selection of the sites for development and obtaining of clearances and permits for the construction.	pers/week	5,9	600	3 536								71300 N	Vational consultants	3 536,00	The project sites are attended by the PMU with the purpose of meetings with the local authorities to discuss the implementation of the wind power projects on their territory.
		1	1219.87		219,87		500	500				72100	Contract services - companies transport service)	1 219,87	The land allocation certificate for the site dedicated for the development of three wind turbines in Yanovichi, Novogrudok district, is updated.
	service	1	880.21	419,8		460			UNDP	62000	10003		Contract services - companies rransport service)**	880,21	
3.1.10: Transmission review of selected sites.															
3.1.10.2. Modelling various options of development of the power system balance of Belarus								,	<u> </u>						Activity is completed in 2019
3.1.10.3 Conducting an analytical study on the development of opportunities to introduce "smart grids" in Belarus (financing of 2019)	pers/weeks	3.87	5 000	951,93	5 050,47	13 330						71200 I	nternational consultant	19 332	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. A comprehensive report inleuding all the above pieces of work is prepared and approved by MNREP. 4. The results of the study are presented to the stakeholders at a round table.
3.1.10.4 Organization of a training (webinar) on maintenance and repair of wind turbines in the context of the COVID-19 pandemic.	service	1	3 100			3 100						72100 C	ontract services - companies		About 30 participants (representatives of design organizations, energy supply organizations as well as small businesses and general public) got familiar with the possibilities of installation of wind turbines in households as well as advantages of development of "smart" grids in Belarus.
3.1.11: Securing permission for the selected sites; installment of meteorological towers of 98 m in height (or other equipment)														0	
3.1.11.1. Wind parameters measurement at the selected sites			······································												The activity is completed in 2018
3.1.11.2. Dismantling of wind measurement equipment															The activity is completed in 2018
3.1.11.3. Preventive and corrective maitenance of the meteorological equipment															The activity is completed in 2018
3.1.11.4.Calibration of wind measurement equipment														0	Activity is completed in 2019
3.1.11.5. Procurement of metheorological temperature profilers to complete formation of the national wind measurement capacity	set of equipment	3	59 810,00					179 430,00				72200 E	quipment and Furniture	179 430,00	The Belhydromet and its territorial units are equipped with three meteorological temperature profilers to enhance measuring wind parameters. 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.
3.1.11.6. Procurement of instruments for measuring wind parameters (such as LIDAR)	set of equipment	2	170 110,00					340 220				72200 E	quipment and Furniture		The Belhydromet and its territorial units are equipped with two modern instruments for measuring wind parameters (such as LIDAR) in order to update the data of the Wind Atlas of Belarus. Strengthened national capacity for conducting wind measurements in order to update the data of Wind Atlas of Belarus.
3.1.12: WPFI would begin the permitting, Power Purchase Agreement, and grid connection processes with the relevant agencies.	pers/week	19.32	500	2200	3400	1 800	2 260					71300 N	ational consultants	9 660,00	The data necessary for the Power Purchase Agreement for the site in Veleshkovichi are prepared and provided to the investor.
processes with the fell-than agencies.	pers/week	2	586,44	1 172,87		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-12 P4-3 - 17 T T 1 1 1 1 1 1 1 1 1	- 141, 151 (141 (141 (141 (141 (141 (141 (141	MNREP	62000	10003	71300 N	ational consultants***	1 172,87	prepared and provided to the investor.
3.1.12.1. Developing WPFI capacity															The activity is completed in 2019
3.1.13; Working with WPFI on a preliminary site layout that includes flexibility on turbine choice.	service										-	72100 C	ontract services - companies onsultancy and design service)		The turbines for the site in Veleshkovichi are selected by the investor company Guris based on the pre-design documentation prepared under the project.
3.1.14: Environmental report for Investors.	service	1	10 599	0	10598,5	7536	16 264					72100 C	ontract services - companies	34 398,50	
3.1.14.1. Analysis of existing practices for monitoring and assessing the impact of wind farms on birds and bats.															An analytical review of existing practices for monitoring and assessing the impact of wind farms on birds and bats was conducted, and a corresponding report was prepared. The report is approved by the MNREP.

3.1.14.2. Elaboration fo the methodology for fauna species monitoring at wind power development in Belarus															A methodology for fauna species monitoring at wind power development in Bel developed.
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															The assessment of the impact of wind farms on monitoring sites at different stag life cycle of birds and bats - wintering, spring and autumn migration, the breedi is made; based on the results of this assessment, a report including proposals to the procedure for EIA for wind power plants in terms of impact assessment on that is developed and approved by MNREP.
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.															The activity is completed in 2017.
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.															The activity is completed in 2018.
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).															The activity is completed in 2018.
3.1.18: Preparation of Information Memorandum	service	1	19,03	19,02								72100	Contract services - companies	19,02	Payment for the services of legal acts database used for compilation of Inform Memorandum for the pre-investment assets in 2019.
3.1.19:Consultant for tender of "Construction Ready" projects		1		1											Activity is completed in 2019.
3.1.20:WPFI will tender the potential sites to investors.		†		0		 	-	+						0.00	Documentation for the transfer of the four sites LLC "WES" Veino ", LLC"
				0										0,00	investor is prepared s in accordance with the current legislation of the Republibelarus
Output 3.1, total GEF, Direct Payments:				0	(,	0	0 0				+		0	
Output 3.1., total GEF, UNDP services for project implementation:				419,80		- 40		-						880	
Output 3.1., total GEF, Direct Cash Transfer: Output 3.1., total GEF, outstanding balance of 2019:				6 706,95	19 739	58 72	53 51	523 750						662 432	
Output 3.1., total GEF:				1 172,87 8 299,62	19 73	9 59 18	6 53 51	0 0 1 523 750		-	+	-		664 485,53	
ify and evaluate available public and private debt and equity financing for above site devel	opments				1, 15	3710	-1 333	1 323 730						1 004 403,33	
3.2.1: Regular discussions and outreach with potential foreign and domestic developers and investors.														0	The activity is compelted in 2016- first half of 2019
3.2.2: The Project together with WPFI and WESU will work with International Financial Institutions to identify and evaluate debt solutions.															The activity is completed in 2017.
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.															The activity is completed in 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.										HAVANA GARAGE					The activity is completed in 2017.
Output 3.2., total GEF:				0	(0	0		<u> </u>			***************************************	0	
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															
3.3.1.1. Organization of participation of Belarusian distinguished specialists in the sphere of															The activity is cancelled for 2020 due to COVID-19 travel restrictions. The pr
RES in thematic conferences, forums, to promote wind power investment to Belarus.														0	provide for the participation of Belarusian distinguished specialists in the sphe in thematic webinars where possible.
3.3.1.2. Project monitoring of the investment projects implementation	pers/days	15	500-600	5536	(2 73	6					71300	National consultants	8 272	Monitoring of the investor's implementation of a wind farm construction pro- continued. Analysis of the sufficiency of the pre-investment documentation developed to
3.3.1.2. Project monitoring of the investment projects implementation	pers/days	1	488,7	488,7								71300	National consultants***	489	project and provided to the investor is made. 3. A report on the "lessons learned" and the investor's activity on the construct wind farm near the village of Veleshkovichi is prepared.
3.3.1.3.Organization of the workshop for the socially active women from rural communities on the practical use of wind power installations as well as other renewable sources of energy to improve the livelihood of rural population	service	1	3 100	o	0	3 10	o	0	MNREP	62000	10003	72100	Contract services - companies (service for organization of workshops)	3 100	1. At least 10 women - heads of Rural Councils, local deputies, members of It learned about the possibilities of use of renewable sources of energy in rural communities. 2. The participants of the workshop got aware of the financing possibilities to
to improve the inventional of fural population		1					ì	1		1	1 1	1] 1	wind power generator in a community or household.
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					· · · · · · · · · · · · · · · · · · ·										The activity was completed in 2019

		1		1	1.3 1.00 \$ 5.5	1 1		I	I	I	I	ì		<u> </u>	T	٦
		per/week	1	586,44	4 586,44	1						N)	713	300 National consultants***	586	5
	Output 4.4, total GEF, Direct Cash Transfer:				3 600,00	4 013	3 600	2 400	1 200			-			1,013	
	Output 4.4 total GEF, UNDP services for project implementation	:			0,00		0	2 400	23 600						14 813 23 600	
	Output 4.4 total GEF, outstanding balance of 2019: Output 4.4, total GEF:				586,44										586	
	e 4, Direct Payments:				4 186,44 0,00		3 600	2 400	24 800		-	-			38 999	9
	e 4/UNDP services for project implementation:				0,00	0	0	0	23 900						23 900	
	e 4, Direct Cash Transfer: e 4, outstanding balance of 2019:				6 500,56 586,44		3 900	2 900	1 700						22 379	
Total for outcom	ne 4:				7 087,00		3 900	2 900	25 600						586 46865	
	e 4/GEF, Direct Payments:				0,00		0	0	0			No. I PET COMMON PROPERTY.	Porto Dio 48 co	THE COUNTY COME AND SOURCE PERSON TO THE PARTY.	0	
Total for outcome	e 4/GEF, UNDP services for project implementation : e 4/GEF, Direct Cash Transfer:				0,00		0	0	23 900						23 900	
Total for outcome	4/GEF, outstanding balance of 2019:				6 500,56 586,44		3 900	2 900	1 700		-	-			22 379 586	
Total for outcom					7 087,00		3 900	2 900	25 600			 			46 865	
Project managen	Project Management									1						
	a roject Management				0										0	The Project Steering Committee monitors the implementation of the project, as well a compliance with the established quality standards, timelines and budget constraints. Target indicators defined in the project documentation are achieved.
		mont	11	26,72	120	24	120	15	15				724	420 Communication services	294	3. Reports required on Project implementation and completion are prepared and sent in due course to MNREP, UNDP and the Ministry of Economy.
		mont	1	21,6	21,60					MNREP			724	420 Communication services***	22	4. The data necessary to reflect the progress of the project in the ATLAS system are prepared and handed over to UNDP. 5. The audit of the project for the financial year of 2019 is undertaken, a relevant report
		mont	1 11	113,82	350	332	350	110	110		62000	10003	733	Accounting/legislation software maintenance	1252	prepared and submitted to UNDP and MNREP. 6. UNDP provided supporting services to the project. 7. In response to the COVID 19 situation, PPE for the participants of the events organise the project of the project of the project of the project of the participants of the events organise.
			1	170,13	170,13								733	310 Accounting software maintenance***	170,13	by the project procured and disseminated to ensure safe working environment.
Activities					375,84	1223	60	300	1 000	UNDP			745	559 Repayment of UNDP expenses**	2959	
~		Pro	ect management, tot	tal GEF:	1038	1579	530	425	1125,0					-	4696	
		pers/we	ek 94,07	546,66			14 025						718	810 Contractor services - individuals long	51425	
		pers/we	ek 8	571,17	4 569,30								718	810 Contractor services - individuals long term***	4569	
		item	2	2172,5	2 915,28		1430			MNREP	04000	00012	722	Office equipment (multifunctional printing device)	4345	
-		intern	1000-1500	1-10	9 158,08		800	where the contract	423,35		04000	00012	725	500 Office supplies	10381	
		service	: 1	5000		0	0	5 000	3				741	10 Professional Services**	5000	
	Annagement, UNDP services for project implementation:	Proje	ct management, tota	I UNDP:	30 667,66 375,84	9 350 I 223	16 255 60	14 350 5 300	5 098,35 1 000						75 721	
	Management, Direct Cash Transfer: nanagement, outstanding balance of 2019:				26 568,36	9 706	16 725	9 475	5 223						7 959 67 697	
otal Project Man	nagement:				4 761,03 31 705,23	10 929	16 785	14 775	6 223		in accomplished a	150000000			4 761	
otal for Project M	Management/GEF, UNDP services for project implementation:				375,84		60	300	1 000			Property Williams			80 417 2 959	
	fanagement/GEF, Direct Cash Transfer: nanagement/GEF, outstanding balance of 2019:				470,00	356	470	125							1 546	
tal Project Man	nagement/GEF:				191,73 1 037,57	1 579	530	425	1 125		+	-		-	192 4 696	
	danagement/UNDP, UNDP services for project implementation:				0,00	0	0	5 000	0						5 000	
	danagement/UNDP, Direct Cash Transfer: anagement/UNDP, outstanding balance of 2019:				26 098,36 4 569,30	9 350	16 255	9 350	5 098						66 152	
	nagement/UNDP:				30 667,66	9 350	16 255	14 350	5 098,35		+				4 569 75 721	
				L PROJECT:	59 518,81	43 343	138 177	85 698							901 671,77	
		Total Project, UNDP se	Total Project , Dire		0,00 795,64	1 223	0	0	0						0	
		T	otal Project, Direct Co	ash Transfer:	50 482 99		520 137 656	5 300 80 398	25 325 549 610		+				33 164 860 267	
			Total outstanding bar		8 240,18										8 240	
		Total	TOTAL PRO al Project/GEF, Dire		28 851,15 0,00	33 993	117 386	63 348	563 412						806 990	
		Total Project/GEF, UNDP set			795,64	1 223	520	300	24 900		-			-	27 739	
		Total P	roject/GEF, Direct Co	ash Transfer:	24 384,63	32 770	116 865	63 048	538 512						775 580	
		Total	outstanding balance TOTAL PROJ		3 670,88 30 667,66	0.250	20.701	22.25	11.525						3 671	
		Total Project/UNDP, UNDP ser	vices for project impl	lementation:	0,00	9 350	20 791	22 350 5 000	11 523 425		-	 			94 682 5 425	
		Total Pro	ject/UNDP, Direct Co	ash Transfer:	26 098,36	9 350	20 791	17 350	11 098						84 688	
		Total o	utstanding balance of		4 569,30										4 569	
UNDF	P Programme Officer			* Direct payme: ** UNDP servi *** Outstanding	ices for project	implementation 019			I	Project Manager		(1)	Mil	Maryna Belavus	
		· V												//		

Project Manager Maryna Belavus