CLEARED BY: _____ Zachary Taylor

UNDP Resident Representative a.i.

Date

CLEARED BY: _____ Aliaksandr Korbut

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

Date 24.02.2019 г.

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 measure-ment	Quantity	Unit cost	Activities by quarters Q1	Q2	Q3	Q4	Implement-ing partner	Fund	Donor	Account	Account description	Planned financial resources, USD	Annual outputs
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.	service	1					-	MNREP	62000	10003	72100	Contract services - companies	0	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.	pers/week	6	600	0	3600	— 0	0				71300	National consultants	3 600	Based on the analytical work carried out in 2017 and 2018, draft legal acts are prepared that ensure the functioning of the energy certification system produced by RES, which have been agreed with the stakeholders and prepared for submittal to the lawmaking body.
	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 (inlcuding the issues of the imporved State Cadaster of RES) on the World Wind day on 15 June.	service										72100	Contract services - companies (organization of workshops)	0	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 certiticates	service	1	25000	5000	20000	— 0					72100	Contract services - companies	25 000	A procedure of issuing "green" certificates to the owners of wind power installations and other RES installations is developed and recommended for endorsement by MNREP, Minenergo, and Department for Energy Efficiency.
	Output 1.1, total GEF, Direct Cash Transfer:				*5 000*	*23 600*	*0*	*0*						*28 600*	
	Output 1.1, total GEF:				**5 000**	**23 600**	**0**	**0**						**28 600**	
Output 1.2: Formulated and enforced Secondary Legislation															
	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
	1.2.2: 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)														Activity is planned for 2020
	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	120	300	300	0	0				71600	Local travel**	600	Private investor for the siteVeleshkovichi 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	600	600	0	0				71300	National consultants	1 200	The investment agreement for the wind energy project is Veleshkovichi is negotiated and approved by the stakeholders.
	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	600	1200	0	0	0				71300	National consultants	1 200	1. The developed draft of the legal act on the approval of the Strategy is approved by MNREP and the main stakeholders and submitted 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
															The activity is completed in 2018
	1.2.8: The project will analyze and prepare reports on two concepts for the tariff scheme														Activity is planned for 2020
	Output 1.2, total UNDP, UNDP services for project implementation :				*300*	*300*	*0*	*0*						*600*	
	Output 1.2, total UNDP, Direct Cash Transfer:				*1 800*	*600*	*0*	*0*						*2 400*	
	Output 1.2, total UNDP:				**2100**	**900**	**0**	**0**						**3 000**	
		Output 1.2, total UNDP:			**2100**	**900**	**0**	**0**						**3 000**	
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

Activities	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.
	1.3.1.4. Organization of the conference on technical standards in Wind power development														The activity is completed in 2017.
	1.3.1.5. Organization of the workshop on the issues of RES impact on climate change mitigation														
	1.3.1.6. Informing the stakeholders on the investment tender by publishing and distributing teasers, informational leaflets	service	1	1530	0	1530	0	0				74210	Audio Visual & Print Prod Costs	*1 530*	1. Printed products (updated information about the project in folders, teasers, leaflets) on the implementation of the project and investment tender prepared, published and distributed to the stakeholders and the public.
	Output 1.3, total GEF, Direct Cash Transfer:				*0*	*1 530*	*0*	*0*						1 530	
	Output 1.3, total GEF:				**0**	**1 530**	**0**	**0**						**1 530**	
	Output 1.3, total:				**0**	**1 530**	**0**	**0**						**1 530**	
Outcome 1.4: Wind Private Finance Initiative (WPFI) created and operational															
Activities	1.4.1: Finalizing Terms of Reference for WPFI														Activity is completed in 2015
	1.4.2: Finalizing Terms of Reference for staff and hiring WPFI Staff														Activity is completed in 2016
	Output 1.4, total GEF:														
Total for outcome 1, UNDP services for project implementation :					*300*	*300*	*0*	*0*						*600*	
Total for outcome 1, Direct Cash Transfer:					*6 800*	*25 730*	*0*	*0*						*32 530*	
Total for outcome 1:					**7 100**	**26 030**	**0**	**0**						**33 130**	
Total for outcome 1/GEF, Direct Cash Transfer:					*5 000*	*25 130*	*0*	*0*						*30 130*	
Total for outcome 1/GEF:					**5 000**	**25 130**	**0**	**0**						**30 130**	
Total for outcome 1/UNDP UNDP services for project implementation :					*300*	*300*	*0*	*0*						*600*	
Total for outcome 1/UNDP, Direct Cash Transfer:					*1 800*	*600*	*0*	*0*						*2 400*	
Total for outcome 1/UNDP:					**2 100**	**900**	**0**	**0**						**3 000**	
Outcome 2: Reduce regulatory risks for investments in wind power in Belarus to the point that at least 5 wind farms are developed, financed, and eventually constructed															
Output 2.1: Awareness-raising program for decision makers															
Activities	2.1.1: The Project Steering Committee meetings will include key decision makers and will emphasize that wind energy can be viable in Belarus.								MNREP	62000	10003				
	2.1.1.1: Organization of SC meetings														At least 1 session of the Project Steering Committee is held
	2.1.2: Through the activities outlined in Outcome 3, WPFI will increase investment activity from both local and foreign developers and investors which will heighten awareness amongst key decision makers.														
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 desicion makers								MNREP	62000	10003				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:				**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.								MNREP	62000	10003				
	Output 2.2, total GEF, UNDP services for project implementation :														
	Output 2.2, total GEF, Direct Cash Transfer:														
	Output 2.1, total GEF:														
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. 2.3.1.1: Organization of training for wind energy specialists with the programme WindPro 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.	service							MNREP	62000					Activity is completed in 2017
	2.3.1.3: Development of a work programme for the emerging courses in technical secondary educational establishments relating to wind power development and maitenance	pers/week	4	600	600	1800	0	0				71300	National consultants	2 400	1. The work programme for the Novogrudok technical colledge is developed and tested as a pilot project. 2. The pilot experience is shared with other technical colledges having courses related to wind power or RES in general, developing specialized local engineering capacity.
		days	10	130	600	700	0	0				71600	Local travel**	1 300	
	Output 2.3, total GEF, UNDP services for project implementation :				*600*	*700*	*0*	*0*						*1 300*	
	Output 2.3, total GEF, Direct Cash Transfer:				*600*	*1 800*	*0*	*0*						*2 400*	
	Output 2.3, total GEF:				**1 200**	**2 500**	**0**	**0**						**3 700**	
2.4: Completed support for ancillary services															
Activities	2.4.1 Organization of the workshop on various options for the development of power														The activity is completed in 2018.
	2.4.2. Organization of GWO training on wind energy security and maintenance.	service	1	8000	8000	0	0	0	MNREP	62000	10003	72100	Contract services - companies (training cost)*	8 000	1. At least 10 specialists-practitioners in wind energy installations maitenance are trained in GWO security and maintenance procedures with the receipt of the relevant certitficates. (one course lasts for at least one week, depending on the proposals of the certified training centers). 2. Owners of wind power installations raised their capacity in security and maintenance procedures in accordance with the requirements of Global Wind Organization.

Activities	3.1.5.1. Undertaking a market research on enhancing energy consumption and export of green energy in Belarus	service	1	50000	0	50000					72100	Contract services - companies	50 000,00	1. A number of investment teasers on development of new energy consuming enterprises (including and primarily green energy); 2. Rosters of potential investors and clients for Belarusian "green" energy including conditions of green energy trade; 3. Strategy of popularization of green energy among population; 4. 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.
	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
	3.1.7: As part of the pre-feasibility screening, WPFI will gain preliminary clearance from the 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													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.													
	3.1.9.1. Obtaining land allocation certificate	pers/week	4,4	500	2200	0					71300	National consultants	2 200,00	The land allocation certificates are obtained for 3 sites - Staryie Boruny (Smorgon district, Grodno region); Zagoryanye (Gorodok district. Vitebsk region); Veino (Senno district, Vitebsk region).
		consultancy and design service	1	11000	0	11000					72100	Contract services - companies (consultancy and design service)	11 000,00	
	3.1.9.2. Obtaining technical specification for the connection to the grid	consultancy and design service	1	7000	0	7000					72100	Contract services - companies (consultancy and design service)	7 000,00	Technical specification for the connection to the grid are obtained for four sites - Staryie Boruny (Smorgon district, Grodno region); Yanovichi (Novogrudok district, Grodno region); Zagoryanye (Gorodok district. Vitebsk region); Veino (Senno district, Vitebsk region).
		days	5	140	700	0					72100	Contract services - companies (transport service)	700,00	
	3.1.10: Transmission review of selected sites.													
	3.1.10.1 Organization of the study tour to a country with the developed wind energy secotr and smart grid technologies on the issues of transmission of energy produced by RES to the grid	pers/days	80	250	8000	12000					71600	International travel **	20 000	1. 8 experts - representatives of MNREP, Ministry of Energy, Belenergo, the Department for Energy Efficiency studied the international experience in transferring energy produced by RES to the grid, as well as experience in other aspects of wind energy development, prepared proposals for optimizing the process of transfer of energy produced by RES, as well as on the development of wind power in Belarus in general.
		pers/week	4,4	500	0	2200					71300	National consultants	2 200	
	3.1.10.2. Modelling various options of development of the power system balance of Belarus	service	1	45000	22500	22500					72100	Contract services - companies (consultancy services)	45 000	1. Several models of the balance of the energy system of Belarus are developed in accordance with the planned strategic vision for the development of renewable energy sources and wind power in particular. 2. Based on the developed models, recommendations are prepared for stakeholders on the development of relevant normative legal acts. 3. The final report is approved by MNREP and the Ministry of Energy.
	3.1.11: Securing permission for the selected sites:; isntallment of meteorological towers of 98 m in height (or other equipment)							MNREP	62000	10003				
	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	service	1	10000	10000						72100	Contract services - companies *	10 000	1. Calibrated wind measurement equipment is delivered to WPFI, Original calibration certificates make part of the wind measurement reports for four sites - Yanovichi, Staryie Noruny, Veino and Zagorianie.
	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	service	1	22 000	11 000	11 000					72100	Contract services - companies (consultancy and design service)	22 000,00	The WPFI carries out its activities in accordance with the Terms of Reference and the Charter, monthly reports on the activities of the WPFI are provided in MNREP and approved by MNREP.
		pers/week	4	600	0	2400					71300	National consultants	2 400,00	
	3.1.12.2. Development of the document defining the regulation of the daily load curve of the Belarusian Energy system by the RES installations													The activity is planned for the second half of the 2019 in case the project is extended.
	3.1.13: Working with WPFI on a preliminary site layout that includes flexibility on turbine choice.													The activity is completed in 2017-2018.
	3.1.14: Environmental report for Investors.													The activity is completed in 2017.

	2.4.3. Feasibility study for the establishment of a GWO training center in Belarus	per/week	4	600	2400	0	0	0	MNREP	62000	10003	71300	Individual Consultants	2 400	1.The needs in the GWO training services in Belarus are analyzed. 2. Capacity of the local educational organizations that could perform the functions of a GWO training center is assessed. 3. Financial-economical assessment of the establishment of a GWO training center in Belarus is prepared. 4. A comprehensive report on the mentioned issues as well as the final conclusion on the practicality of the establishment of a GWO training center in Belarus.
	Output 2.4, total GEF, Direct Payments:				*8000*	*0*	*0*	*0*						8 000	
	Output 2.4, total GEF, Direct Cash Transfer:				*2 400*	*0*	*0*	*0*						2 400	
	Output 2.4, total GEF:				**10 400**	**0**	**0**	**0**						**10 400**	
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	service	1	300	300	0	0	0				72100	Contract services- companies	300	1.The text of the created in 2018 video is translated into English. 2.The sub-titles in English are prepared. The final version of the video-clip with English sub-titles is posted on the Internet (Project site, MNREP site, UNDP site, social media of the mentioned organizations).
	2.5.1.3. Finalization and publication of technical guidebooks on wind energy	service	1	6000	6000	0	0	0	MNREP	62000	10003	72100	Contract services - companies	6 000	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 endrosed 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.														Activity is planned for the second half of the 2019 if the project is extended.
	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.														The activity is completed in 2017.
	Output 2.5, total GEF, Direct Cash Transfer:				*6300*	*0*	*0*	*0*						*6300*	
	Output 2.5, total GEF:				**6300**	**0**	**0**	**0**						**6300**	
Total for outcome 2, Direct Payments:					*8 000*	*0*	*0*	*0*						*8 000*	
Total for outcome 2, UNDP services for project implementation :					*600*	*700*	*0*	*0*						*1 300*	
Total for outcome 2, Direct Cash Transfer:					*9 300*	*1 800*	*0*	*0*						*11 100*	
Total for outcome 2:					**17 900**	**2 500**	**0**	**0**						**20 400**	
Total Outcome 2, GEF, Direct Payments					*8 000*	*0*	*0*	*0*						*8 000*	
Total for outcome 2, GEF, UNDP services for project implementation					*600*	*700*	*0*	*0*						*1 300*	
Total Outcome 2/ GEF, Direct Cash Transfer,,GEF:					*9 300*	*1 800*	*0*	*0*						*11 100*	
Total for outcome 2/GEF:					**17 900**	**2 500**	**0**	**0**						**20 400**	
Outcome 3: Wind Energy Project Technical Assistance Facility is established to support the WPFI investment in and the development of documentation for at least 25 MW of wind power															
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.
	3.1.2: Finalize the legal form and administrative criteria of the WPFI.														The activity is completed in 2016
	3.1.3: Finalize the agreement between the WESU and the WPFI in the manner most conducive to operation in current conditions in Belarus.														The activity is completed in 2018.
	3.1.4: Conduct a tender to select an engineering firm to form the WPFI 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 WPFI in order to extend the range of WPFI capabilities.														

	3.1.15: The Project conjointly with Wind Energy Support Unit performs Pro Forma														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 co-ordinates with other relevant ministries.	pers/week	2	600	1200	0						71300	National consultants	1 200,00	1. The draft of investment agreement for the construction of a wind farm at Veleshkovichi site, prepared in 2017, is negotiated with the stakeholders and signed by the selected investors and relevant regional executive committee.
		pers/week	4,4	500	2200	0						71300	National consultants	2 200,00	
	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													The activity is completed in 2018.
	3.1.18: Preparation of Information Memorandum														Information (investment) memorandum is prepared for the investment tender on Veleshkovichi site.
	3.1.18.1: Independent assessment of pre-investment assets value	service	1	5000	5000							72100	Contract services - companies	5 000,00	Independent assessment of pre-investment assets value performed by certified valuator
	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	5000	0	10000						71300	National consultants	10 000,00	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.
	3.1.19.2. Selection of the auction organizer for selling pre-investment assets to the investors	pers/week	4,4	500	0	2200						71300	National consultants	2 200,00	1. The Operator of the digital trade platform is defined and invloved in the investment tender organization. 2. The investment tender for Veleshkovichi is held.
		service	1	2000	2000	0						72100	Contract services - companies	2 000,00	
	3.1.20: The Project, WPFI and the Wind Energy Support Unit will tender the Pre-Investment Assets to investors.	service	1	19800	6000	13800						72100	Contract services - companies (consultancy service)	19 800,00	1. Prequalified investors - a number of investors are identified who will be admitted to the auction for the sale of pre-investment assets.
		pers/week	8,8	500	2200	2200						71300	National consultants	4 400,00	2. Investors are selected for the implementation of projects for the construction of wind farms; contracts on the purchase of pre-investment assets are made.
		pers/week	2	600	600	600						71300	National consultants	1 200,00	
	Output 3.1, total GEF, Direct Payments:				*10000*	*0*	*0*	*0*						*10 000*	
	Output 3.1., total GEF, UNDP services for project implementation :				*8000*	*12 000*	*0*	*0*						*20 000*	
	Output 3.1., total GEF, Direct Cash Transfer:				*55 600*	*134 900*	*0*	*0*						*190 500*	
	Output 3.1., total GEF:				**73600**	**146900**	**0**	**0**						**220 500**	
Output 3.2: Identify and evaluate available public and private debt and equity financing for above site developments															
Activities	3.2.1: Regular discussions and outreach with potential foreign and domestic developers and investors.	pers/weeks	2	5000	0	10000			MNREP	62000	10003	71200	International Consultants*	10 000	1. Protocols and reports on meetings with potential foreign and national investors are prepared; proposals on forms of cooperation are developed. 2. The most likely partners of the WPFI are identified; a corresponding report is prepared and approved by MNREP.
	3.2.2: The Project together with WPFI and WESU will work with International Financial														The activity is completed in 2017.
	3.2.3: The Project together with WPFI and WESU will provide term sheets for debt, as part														The activity is completed in 2017.
	3.2.4: The Project together with WPFI and WESU will prepare term sheets for debt for														The activity is completed in 2017.
	Output 3.2., total GEF:				**0**	**10000**	**0**	**0**						**10000**	
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														
Activities	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	10000	0	10000		0				72100	Contract services - companies (service for organization of study tours)	10 000	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 .
		pers/days	52	250	0	13000		0				71600	International travel **	13 000	
	3.3.1.2. Project monitoring of the investment projects implementation	pers/week			0	0						71800	Contractor services - individuals	0	
		pers/week			0	0						71300	National consultants	0	
	3.3.1.3.Organization of the workshop to monitor and present the results of the project implementation including practical and capacity building activities					3600	0	0				72100	Contract services - companies (workshop organization)	3 600	1. 40 representatives of governmental bodies (MNREP, Minenergo, Department of Energy Efficiency, MART, Mineconomy, local authorities) raised their awareness of the project progress and lessons learned, as well as increased their knowledge in various aspects of widn energy and RES in general.
	Output 3.3., total GEF, UNDP services for project implementation :				*0*	*13000*	*0*	*0*						*13 000*	
	Output 3.3., total GEF, Direct Cash Transfer:				*0*	*13 600*	*0*	*0*						*13 600*	
	Output 3.3., total GEF:				**0**	**26600**	**0**	**0**						**26600**	
Total Outcome 3, GEF, Direct Payments					*10 000*	*10 000*	*0*	*0*						*20 000*	
Total for outcome 3, UNDP services for project implementation :					*8 000*	*25 000*	*0*	*0*						*33 000*	
Total for outcome 3, Direct Cash Transfer:					*55 600*	*148 500*	*0*	*0*						*204 100*	
Total for outcome 3:					**73 600**	**183 500**	**0**	**0**						**257 100**	
Total Outcome 3, GEF, Direct Payments					*10 000*	*10 000*	*0*	*0*						*20 000*	
Total for outcome 3/GEF, UNDP services for project implementation :					*8 000*	*25 000*	*0*	*0*						*33 000*	
Total for outcome 3/GEF, Direct Cash Transfer:					*55 600*	*148 500*	*0*	*0*						*204 100*	
Total for outcome 3/GEF:					**73 600**	**183 500**	**0**	**0**						**257 100**	
Outcome 4: At least 5 wind farm projects are successfully developed and the Wind Energy Support Unit continues to operate past the lifetime of the project															
Output 4.1: Validation of data in existing Wind Atlas of Belarus															
	4.1.1: Site specific wind studies for at least (5) project sites will be used to validate the existing Wind Atlas of Belarus.														
ivities	4.1.1.1: Validation of data of Wind Atlas of Belarus, upgrade of the Wind Atlas as an important informational resource for wind energy developers and investors	service	1	65000	0	65000			MNREP	62000	10003	72100	Contract services - companies (consultancy service) - (Direct contract with Hydromet with proper justification)	65 000	1. Analysis of the exisitng Wind Atlas of Belarus with the use of the obtained wind measurement data at 5 project sites in 2017-2018, other available data on wind parameters available, is made. 2. An upgarded version of the Wind Atlas of Belarus reflecting the most recent wind measurement data with the use of GIS technologies is prepared and approved by MNREP. 3. The upgraded Wind Atlas is presented to the stakeholders.

Act	4.1.1.2. Assessment of the capacity of the Belarusian Hydromet and Belenergo to establish the regular practice of energy output forecast based on the daily-range forecast	pers/week	2	5000	0	10000						71200	International Consultants*	10 000	1. Capacity of Belarusian Hydromet and Belenrgo is assessed from the point of view of establishing a system of daily prognosis of wind energy output based on the daily-range weather forecast. 2. Proposals on the measures to introduce the obligatory practice of submitting the prognosis of the daily output of wind energy to Belenergo are developed and approved by MNREP and Minenergo.
	Output 4.1., total GEF, Direct Payments:				*0*	*10000*	*0*	*0*						*10000*	
	Output 4.1, total GEF, Direct Cash Transfer:				*0*	*65 000*	*0*	*0*						*65 000*	
	Output 4.1, total GEF :				**0**	**75 000**	**0**	**0**						**75 000**	
4.2: Completed Web portal for the project															
	4.2.1: Develop a project site/portal														
Activities	4.2.1.1. Mainatining the web-site updated, preparation of informational materials for the web-site, liaising with the public and stakeholders on the issues of project implementation.	pers/month	6	400	1200	1200			MNREP	62000	10003	72100	Contract services - companies	2400	1. The website of the project is maintained in an up-to-date state, the number of users increases monthly. 2. At least 80 articles, reviews, press releases are prepared and posted on the site. 3. At least 5 PR events are held.
		pers/week	8,64	600	1583	3600						71300	National consultants	5183	
	4.2.2: The Project will support the MNRE in validation and actualization of the Wind Atlas of Belarus and will place the validated version on the Project's web portal.														The upgraded Wind Atlas is placed on the project web-site and on the web-site of Belhydromet with the reference on the wen-site of MNREP.
	4.2.3: Publish all relevant documentation on the web portal including project tender documents and information memorandums.														For the duration of the project, the documentation is posted on the project's website.
	4.2.4: Development of the brochures explaining the value proposition of wind energy. These brochures will also be available on the web portal.									04000	00012	74210	Audio Visual & Print Prod Costs		The activity is completed in 2018
	4.2.4.1: Production of bill-boards on popularization of wind energy									62000	10003	74210	Audio Visual & Print Prod Costs		The activity is compelted in 2018.
	Output 4.2, total GEF, Direct Cash Transfe:				*2 783*	*4 800*								*7 583*	
	Output 4.2, total GEF :				**2 783**	**4 800**								**7 583**	
	Output 4.2, Total:				**2 783**	**4 800**	**0**	**0**						**7 583**	
Outcome 4.3: Completed site study visits as part of project due diligence process.		**Результат 4.3 , итого ГЭФ:**			**0**	**0**	**0**	**0**						**0**	Activity is planned for second half of the 2019 if the project is extended.
Outcome 4.4: Developed, reviewed, revised, finalized and published Lessons Learned study															
Activities	4.4.1: After 24-months, the Project will hire an international consultant to perform an intermediate review.														The activity is completed in 2018.
	4.4.2. Implementation of the informational campaigns to promote the results of the project														The activity is planned for second half of the 2019 if the project is extended.
Total for outcome 4, Direct Payments:					*0*	*10 000*	*0*	*0*						*10 000*	
Total for outcome 4, Direct Cash Transfer:					*2 783*	*69 800*	*0*	*0*						*72 583*	
Total for outcome 4:					**2783**	**79800**	**0**	**0**						**82583**	
Total for outcome 4/GEF, Direct Payments:					*0*	*10 000*	*0*	*0*						*10 000*	
Total for outcome 4/GEF, Direct Cash Transfer:					*2 783*	*69 800*	*0*	*0*						*72 583*	
Total for outcome 4/GEF:					**2 783**	**79 800**	**0**	**0**						**82 583**	
Project management															
Activities	Project Management	month	6	40	120	120						72420	Communication services	240	1. The Project Steering Committee monitors the implementation of the project, as well as compliance with the established quality standards, timelines and budget constraints. 2. Target indicators defined in the project documentation are achieved. 3. 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. 4. The data necessary to reflect the progress of the project in the ATLAS system are prepared and handed over to UNDP. 5. The draft annual work plan for 2020 is developed and approved by MNREP and UNDP. 6. The audit of the project for the financial year of 2018 is undertaken, a relevant report is prepared and submitted to UNDP and MNREP. 7. The project extension is granted by the donor and confirmed by the MoE of Belarus. 7. The project extension is granted by the donor and confirmed by the MoE of Belarus.
		month	6	100	300	300	1284					73310	Accounting software maintenance	600	
					1000	1000						74559	Repayment of UNDP expenses**	2000	
		Project management, total GEF:			**1420**	**1420**								**2840**	
		pers/week	52	551,92	14350	14350				04000	00012	71810	Contractor services - individuals long term	28700	
		service	1	9000		9000						74110	Professional Services**	9000	
		Project management, total UNDP:			**14350**	**23350**	**0**	**0**						**37700**	
Total for Project Management, UNDP services for project implementation :					*1 000*	*10 000*	*0*	*0*						*11 000*	
Total for Project Management, Direct Cash Transfer:					*14 770*	*14 770*	*0*	*0*						*29 540*	
Total Project Management:					**15770**	**24770**	**0**	**0**						**40540**	
Total for Project Management/GEF, UNDP services for project implementation :					*1 000*	*1 000*	*0*	*0*						*2 000*	
Total for Project Management/GEF, Direct Cash Transfer:					*420*	*420*	*0*	*0*						*840*	
Total Project Management/GEF:					**1420**	**1420**	**0**	**0**						**2840**	
Total for Project Management/UNDP, UNDP services for project implementation :					*0*	*9 000*	*0*	*0*						*9 000*	
Total for Project Management/UNDP, Direct Cash Transfer:					*14 350*	*14 350*	*0*	*0*						*28 700*	
Total Project Management/UNDP:					**14350**	**23350**	**0**	**0**						**37700**	
TOTAL PROJECT:					**117 153**	**316 600**	**0**	**0**						**433 753**	
Total Project , Direct Payments:					*18 000*	*20 000*	*0*	*0*						*38 000*	
Total Project, UNDP services for project implementation :					*9 900*	*36 000*	*0*	*0*						*45 900*	
Total Project, Direct Cash Transfer:					*89 253*	*260 600*	*0*	*0*						*349 853*	
TOTAL PROJECT/GEF:					**100 703**	**292 350**	**0**	**0**						**393 053**	
Total Project/GEF , Direct Payments:					*18 000*	*20 000*	*0*	*0*						*38 000*	
Total Project/GEF, UNDP services for project implementation :					*9 600*	*26 700*	*0*	*0*						*36 300*	
Total Project/GEF, Direct Cash Transfer:					*73 103*	*245 650*	*0*	*0*						*318 753*	
TOTAL PROJECT/UNDP:					**16 450**	**24 250**	**0**	**0**						**40 700**	
Total Project/UNDP, UNDP services for project implementation :					*300*	*9 300*	*0*	*0*						*9 600*	
Total Project/UNDP, Direct Cash Transfer:					*16 150*	*14 950*	*0*	*0*						*31 100*	

* Direct payments

** UNDP services for project implementation

433 753

UNDP Programme Officer _____ Igar Tchoulba

Project Manager _____ Maryna Belavus

433 753,4400000000

433 753

14 Feb 2019