



ANNUAL PROGRESS REPORT

United Nations Development Programme

Kazakhstan

Project “Bitfury Assistance to the Republic of Kazakhstan in fulfilling international obligations to reduce greenhouse gas emissions by reducing the carbon footprint of electricity suppliers for the leading technology company Bitfury”

February, 2023



Reporting Period	2022
Donor	Bitfury Holding B.V.
Country	Kazakhstan
Project Title	Bitfury Assistance to the Republic of Kazakhstan in fulfilling international obligations to reduce greenhouse gas emissions by reducing the carbon footprint of electricity suppliers for the leading technology company Bitfury
Project ID (Atlas Award ID)	00111145
Outputs (Atlas Project ID and Description)	00112788
Strategic Plan and/or CPD Outcomes	3.2. By 2025, all people in Kazakhstan, especially the most vulnerable, will benefit from increased resilience climate change, sustainable environmental and clean energy management, and sustainable rural and urban development.
Implementing Partner(s)	Forestry and Wildlife Committee of the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan
Project Start Date	December 2019
Project End Date	December 2023
2022 Annual Work Plan Budget	133 766 USD
Total resources required	133 766 USD
Revenue received	n/a
Unfunded budget	n/a
UNDP Project Manager	Name: Assel Nurbekova Email: assel.nurbekova@undp.org Tel.: +7 7172 696550

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I. Executive summary

In the reporting period, work on the inventory of unaccounted forests in Pavlodar and Abay regions was completed. Cartographic materials were developed, the coordinates of corner points for each site were determined. In general, 67.2 thousand hectares of unaccounted forests were identified in two regions. Based on the prepared materials, land management projects will be developed.

By local executive bodies, a plot of 20 hectares was allocated for planting forests. Scientific research has been carried out in this plot and a Design project has been prepared.

Based on the data on unaccounted forests and the Design project of forest planting on 20 hectares, calculations of the current and projected volume of carbon sequestration were made. The concept, project document, monitoring plan for two forest carbon projects were developed.

The project activities are being implemented in high cooperation with local executive bodies of Pavlodar, East Kazakhstan, and Abay regions.

II. Background

The Project aims to assist the Republic of Kazakhstan in fulfilling international obligations under the Paris Agreement to reduce greenhouse gas emissions by carbon storage in forests through a set of measures to reduce the "carbon footprint" produced by Bitfury's electricity suppliers in the Republic of Kazakhstan.

In accordance with preliminary data provided by state bodies, East Kazakhstan and Pavlodar regions have the largest areas of unaccounted forests consisting of deciduous and coniferous species. These forests have the highest greenhouse gas absorption coefficient. The company also plans to build Bitfury data centers in Pavlodar region. For these reasons, these areas were selected for piloting. Following the project results, this work can be extended to other regions.

The main objectives will be achieved through the following measures: (1) reduce the "carbon footprint" produced by Bitfury's electricity suppliers in the Republic of Kazakhstan by 110% with a total consumption of 82 MW (2) support Kazakhstan's national initiative to create offset mechanisms to neutralize greenhouse gas emissions in order to fulfil the obligations under the Paris Agreement (3) contribute to the achievement of the UN Sustainable Development Goal, which involves the restoration of 350 million ha of world's forests by 2030 to combat climate change (4) sustainable management of forest biodiversity.

III. Progress Review

Expected outputs	Output indicators	Data source	Baseline		Value for the previous year if different from baseline	Target for the reported year	Actual value for the reported year
			Value	Year			
Outcome 1. At least 100,000 ha of unaccounted forests of East Kazakhstan and Pavlodar regions are transferred to the category of managed forests and registered in accordance with the legislation of the Republic of Kazakhstan.	Indicator 1.1 The number of hectares of identified unaccounted forest	Project reports, maps	0	2019	67,972	41,700	49,637
	Indicator 1.2 The number of hectares of forest transferred to the protected and managed regime	Project reports, land use	0	2019	0	0	0
Outcome 2. The technical potential of forestries is strengthened as a result of the purchase of firefighting equipment.	Indicator 2.1. Amount of the Fire trucks and Tractors	Project reports	0	2019	7	0	0
Outcome 3. Regulatory acts to ensure the implementation of forest carbon projects are developed and submitted to state bodies.	Indicator 3.1 Approved Legal Acts on carbon forest projects	The regulatory framework of the Republic of Kazakhstan	0	2019	0	0	0
Outcome 4. 20 ha of green spaces in Pavlodar region are created and transferred to the state.	Indicator 4.1 Design Project document	Project reports	0	2019	0	1	1
	Indicator 4.2 Forest area created	Project reports	0	2019	0	0	0
	Indicator 5.1 Design and technical		0	2019	0	2	2

Outcome 5. Two forest carbon projects are drawn up and approved	documents for forest carbon projects	Project documents and reports					
	Indicator 5.2 Validation report		0	2019	0	0	0
Outcome 6. A set of documents for approval and registration of the project in the national registry of carbon projects is prepared	Indicator 6.1 Set of documents prepared (Project Concept, Project document, Monitoring plan)	Project reports	0	2019	0	0	0
Outcome 7. An analysis of the impact of forest carbon projects on the gender balance in Kazakhstan is drawn up. Assessment of risks, equal opportunities for women and men in the implementation of forest carbon projects, assessment of the likelihood of equitable access and distribution of benefits between men and women in the implementation of forest carbon projects, assessment of working conditions for men and women in the forest sector. Preparation of a publication on the gender dimension of forest carbon projects for a wide range of stakeholders.	Indicator 7.1 Analytical report	Project reports	0	2019	0	0	0
	Indicator 7.2 Resolution of the international conference on gender issues	Project reports	0	2019	0	0	0
	Indicator 7.3 Publication on the gender aspect of forest carbon projects	Project reports	0	2019	1	0	0

Component 1: Transfer of unaccounted forests of East Kazakhstan and Pavlodar regions into the category of managed forests

- Work on the inventory of unaccounted forests in Pavlodar and Abay regions has been completed, about 47 thousand hectares of unaccounted forests have been identified and taxed. Cartographic materials and forest maps based on satellite images and photo plans were compiled at a scale of 1:25000.
- The results of the inventory of unrecorded forests were presented to interested parties and discussed at meetings with the participation of the Department of Subsoil Use, Environment and Water Resources, the Territorial Inspectorate for Forestry and Wildlife Committee in Pavlodar region, the Territorial Inspectorate for Forestry and Wildlife in Abay region, forestry enterprises of Pavlodar region and Kazlesproekt.
- Materials are being prepared for the transfer of part of the unaccounted forest areas to the state forest fund in accordance with the rules and procedures of the forest legislation.

Component 2: Creation of green spaces of 20 ha in Pavlodar region

- Scientific studies of the soil of the selected area for planting forests on 20 hectares were carried out.
- A design project for the creation of a green zone of 20 hectares around the city of Pavlodar has been developed. The document has been submitted for environmental review.
- Together with the Department of Subsoil Use, Environment and Water Resources of the Pavlodar region, the territorial inspection of forestry and wildlife in the Pavlodar region, Pavlodar forestry, a site was identified for creating a green zone near the city of Pavlodar. Preparatory work has been carried out for planting forests in the spring of 2023.

Component 3: Drawing up of forest carbon projects

- Based on the report on unaccounted for forests of Pavlodar and Abay regions, current and forecast carbon sequestration by these forests was calculated. Also, (1) a concept, (2) a project document and (3) a monitoring plan for a forest carbon offset project were prepared in accordance with the current environmental legislation of Kazakhstan.
- Based on the data of the Design project for the creation of a green zone on 20 ha around the Pavlodar city, (1) a concept, (2) a project document and (3) a monitoring plan for a forest carbon offset project were prepared in accordance with the current environmental legislation of Kazakhstan.

The methodological basis of the work is the recommendations of the IPCC Guidelines for Inventory of Greenhouse Gas Emissions and Removals (2006), project methodologies approved under the auspices of the UNFCCC, reference materials on tables and models of the growth of tree plantations, national expert assessments and scientific publications.

The basis for the preparation of project documents is the Order of Minister of Ecology, Geology and Natural Resources of the Republic of Kazakhstan dated November 5, 2021 #455 "On Approval of the Rules for Approving Carbon Offset and Providing Offset Units". This order defines the requirements for the project document for the carbon offset to increase the absorption of greenhouse gases.

Component 4: Project management

- Together with MEGNR, FWC and Zhasyl Damu, amendments to the Forest Code were prepared, allowing the planting of forests on the territory of the SFF at the funding of the private sector. These amendments will make it possible to mobilize funding for the development of the forestry sector. The amendments were sent to the MEGNR and the Majilis of the Parliament of the Republic of Kazakhstan.
- At the initiative of private companies, several explanatory meetings were held on the development and implementation of forest carbon projects.

IV. Project Risks and Issues

a. Updated project risks and actions

Project Risks	Mitigation measures	Actions taken
Strategic risk: Frequent changes in government can lead to unforeseen policy changes that will affect the achievement of project goals	To ensure institutional memory in the process of its implementation, the project will mainly work at the level of heads of structural units of state bodies. To reduce the consequences of these changes and make the results more sustainable, the project will promote environmental and forestry legislation on the development and implementation of forest carbon projects.	In the reporting period, proposals were developed for the Forest Code of Kazakhstan, allowing the creation of new forests at investors' funds. These proposals have been discussed in a working order with the ICLT, Zhasyl damu, MEGNR RK and the project will continue to work on improving the legislation.
Operational risk: Delays with paperwork for transferring unaccounted forests into the category of managed forests, transferring green spaces to the state balance at the level of local executive bodies	During the project implementation, the existing barriers will be removed through the organization of working meetings, meetings with the authorized body and local executive bodies by explaining the importance of keeping the deadlines	Online/offline meetings and discussions are held with local executive bodies of the East Kazakhstan and Pavlodar regions on an ongoing basis and as problematic issues arise. The Departments of Natural Resources of the two regions are supporting the transfer of unaccounted forest areas to the state forest fund. Currently there is a process of selection of unaccounted forests areas for transfer to the management of forestry organizations.
Financial risk: Delays with approval and allocation of funds from private sector	The project was developed as a voluntary initiative of Bitfury to reduce the carbon footprint created by energy consumption from coal generation. Bitfury will strictly follow financial volumes and deadlines defined in the project document to achieve 100%	According to the request of the donor, in the reporting period, the tranche in the amount of \$296,840 was postponed to 2023, additional agreement No. 4 was signed, and the tranche schedule was revised.

	compensation for emissions. Any expected changes should be discussed at the PB meetings	Despite the downtime of the Data Center, restrictions during the pandemic, the donor confirms the overall budget of the project.
Financial risk: Fluctuations in the exchange rate of the currency, bitcoins, MW volumes and other factors affecting the volume and terms of financing	The activity of Bitfury at the time of the conclusion of the agreement involves the consumption of electricity in the Republic of Kazakhstan in the amount of up to 82 MW. The levels of financing directly depend on this amount based on the calculation of the carbon footprint offset by 110%. Financing terms may be changed in case of changes in consumption. The amount and period of financing may be subject to significant changes in Bitfury's agreements with electricity suppliers. Bitfury will provide UNDP with analytical notes on planned changes in advance and take steps to mitigate this risk	In accordance with the request from the donor, adjustments were made to the tranche schedule. This is due to the downtime of the Data Center in Ekibastuz. The rescheduling of the tranche affected the timing of the implementation of some activities, such as the purchase of firefighting equipment. However, the overall project budget remains unchanged.
Financial risk: Lack of financing for the project due to a temporary shutdown of the Data Center, repair work, power outages	In the event of a Data Center shutdown, actual CO2 emissions for the accounting period will be reduced. In this case, the allocation of funds to compensate for the carbon footprint of Bitfury will be reassessed	According to the request of the donor, in the reporting period, the tranche in the amount of \$296,840 was postponed to 2023, additional agreement No. 4 was signed, and the tranche schedule was revised. Despite the downtime of the Data Center, restrictions during the pandemic, the donor confirms the overall budget of the project.
Environmental risk: Project activities may affect human rights and/or possibly limit the quality or access to resources of people living in territories adjacent to the state forest fund	The project will closely cooperate with everyone to ensure that stakeholders are properly consulted. The fact that there are public and private forms of forest ownership, which provide different levels of participation of local communities in forest management, gives significant flexibility to the project and all stakeholders to ensure the satisfaction of environmental and social, economic needs, as well as human rights and priorities.	The risk is not relevant for the reporting period
Environmental risk: Resource users and other right holders do not have knowledge	Project will closely cooperate with all stakeholders to support government bodies and forest management institutions to fulfill their commitments	The risk is not relevant for the reporting period. However, during meetings with project's stakeholders, the options of transferring either to

on how to claim their rights	and to explain the resources right holder how to claim their rights, for example, the rights of citizens to private forest ownership, its management and receiving financial benefits from carbon units. This will be achieved through consultations with stakeholders on all relevant aspects of the project so that all parties know and understand the relevant obligations and rights.	the private forest fund or to the state forest fund are explained. In 2023, when drawing up land management documents, explanatory meetings with landowners will be held.
Land tenure mechanisms and / or property rights at the community level or customary rights to land, territories or resources is affected	Risk will be constantly monitored throughout the project implementation through standard project control systems and risk monitoring systems.	The risk is not relevant for the reporting period

b. Updated project issues and actions

Project Issue 1: As indicated in the project document, the project is financed in proportion to the electricity used by the Data Center located in Pavlodar region. Since the beginning of the pandemic in 2020, the work of the Data Center has been unstable. In 2022, the Data Center did not work. This leads to a deviation of the project financing from the tranche schedule and the postponement of the implementation of activities. At the same time, the company confirms solvency.

Actions taken: At the request of Bitfury, an Amendment #4 was signed on the transfer of one tranche to 2023 due to downtime of the Data Center and the lack of power supply.

V. Gender Related Activities

During the trainings, the participation of men and women was ensured equally. Since the project is climate-related, its impact on women is considered through the improvement of their health as a result of the increase in forest area and forest management in the pilot area. In 2022, the project developed a Working Design for the creation of a green zone near the city of Pavlodar on an area of 20 hectares. Planting trees on this site will be carried out in the spring of 2023. The forest grown on 20 hectares of the pilot area will absorb 23 thousand tons of CO₂ eq. This will have a positive impact on the health of women in Pavlodar, which makes up 55% of the total population of the city. To increase local community engagement, the project will organize dialogue platforms in the next phase where gender balance will be observed.

VI. Cross-Cutting Themes

The project results were presented under the BIOFIN regional dialogue in Manila (November 2022) for exchanging experiences with the countries of Asia and the Pacific regions. Also, the project results were presented at the BIOFIN side-event under the COP-15 in Montreal.

VII. Lessons Learned

The following factors have a positive impact on project results achievement:

- project implementation the within UNDP Biodiversity Projects Portfolio, allowing to synergize the common objectives and to effectively use the project budget.
- the membership of Project Steering Committee from line ministries and local executive bodies, allowing for adaptive project management and timely response to risks.

VIII. Conclusions and Way Forward

Due to the downtime of the Data Center, it is planned to review the time frame for the implementation of the project. The project team is in the process of updating the project logical framework in consultation with the project Board. In 2023, it is planned to complete the work on the preparation of land management acts, on planting a forest on 20 hectares in Pavlodar and the formation of a package of documents for a forest carbon offset project.

IX. Financial Status

According to the project document and financial agreement, the total budget of the project is \$1,500,000. The project is financed in tranches in proportion to the amount of electricity used by Bitfury. Since 2019, the company has paid \$798,748, of which \$591,135 has been used. The amount of free funds as of January 1, 2022 is \$249,613.

Activity	Approved budget	1 st year expenses 2020	2 nd year expenses 2021	3 rd year expenses 2022
Component 1	\$ 1,172,970	\$ 69,447	\$ 321,930	\$ 46,330
Component 2	\$ 74,500	\$ 0	\$ 106	\$ 19,937
Component 3	\$ 111,747	\$ 0	\$ 0	\$ 30,179
Component 4	\$ 29,969	\$ 2,027	\$ 6,264	\$ 12,174
GMS	\$110,814	\$ 5,718	\$ 26,254	\$ 8,768
Total:	\$ 1,500,000	\$ 77,192	\$ 354,554	\$ 117,389

Activity	Approved budget	2022
Activity 1	412 856,00	50 102,64
Activity 2	82 000,00	21 545,00
Activity 3	30 000,00	32 593,32
Activity 4	21 000,00	13 147,67
Total	545 856,00	117 388,63
Activity	Approved budget	2022
Activity 1	412 856,00	50 102,64
64397		113,84
71300	5 500,00	5 076,83
71400	21 600,00	15 036,43
72100	385 756,00	26 828,15

74500		98,26
75100		3 772,26
76100		-823,13
Activity 2	82 000,00	21 545,00
64397		27,31
71600		778,29
72100	65 000,00	17 097,70
74200	12 000,00	2 183,04
74500		13,34
75100		1 607,97
75700	5 000,00	
76100		-162,65
Activity 3	30 000,00	32 593,32
71200		30 179
72100	30000	
75100		2 414,32
Activity 4	21 000,00	13 147,67
64397		1 677,14
71400	13000	
71600		6 851,23
71600		1 169,32
72400		288,27
74500	5000	718,75
75100		973,95
75700	3000	1 469,80
76100		-0,79
Total:	545 856,00	117 388,63

Assel Nurbekova,
Programme Analyst, EEU:

DocuSigned by:

Assel Nurbekova

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X. Annexes



UN Development Programme
Report ID: unglodrb

Combined Delivery Report by Activity

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Run Time: 13-03-2023 05:03:35

Selection Criteria :

Business Unit : KAZ10
Period : Jan-Dec (2022)
Selected Project Id : ALL
Selected Fund Code : ALL
Selected Dept. IDs : ALL
Selected Outputs : 00111145

Project Id : 00112788	Reduction of greenhouse gas em	Period :	Jan-Dec (2022)
Output # : 00111145	Reduction of greenhouse gas em	Impl. Partner :	01690 Government of Kazakhstan
		Location :	Kazakhstan
		Govt Exp	UNDP Exp
		UN Agencies Exp	Total Exp

Activity : ACTIVITY1 (Transfer of unaccounted forest)

Fund : 30000 (PROGRAMME COST SHARING)

64397 - Services to projects -CO staff	0.00	113.84	0.00	113.84
71305 - Local Consult.-Sht Term-Tech	0.00	4,928.95	0.00	4,928.95
71360 - Local Consult-Security	0.00	147.88	0.00	147.88
71415 - Contribution to Security SC	0.00	362.17	0.00	362.17
71470 - Natl Personnel Svcs Agreement	0.00	14,674.26	0.00	14,674.26
72115 - Svc Co-Natural Resources & Env	0.00	26,771.65	0.00	26,771.65
72125 - Svc Co-Studies & Research Serv	0.00	56.50	0.00	56.50
74510 - Bank Charges	0.00	11.54	0.00	11.54
74598 - Services to projects -GOE	0.00	86.72	0.00	86.72
75105 - Facilities & Admin - Implement	0.00	3,772.26	0.00	3,772.26
76125 - Realized Loss	0.00	2.74	0.00	2.74
76135 - Realized Gain	0.00	- 825.87	0.00	- 825.87
Total for Fund 30000	0.00	50,102.64	0.00	50,102.64

Total for Activity ACTIVITY1 0.00 50,102.64 0.00 50,102.64

Activity : ACTIVITY2 (Creation of green spaces)

Fund : 30000 (PROGRAMME COST SHARING)

64397 - Services to projects -CO staff	0.00	27.31	0.00	27.31
71615 - Daily Subsistence Allow-Intl	0.00	224.06	0.00	224.06
71620 - Daily Subsistence Allow-Local	0.00	554.23	0.00	554.23
72110 - Svc Co-Agricultural Management	0.00	17,097.70	0.00	17,097.70
74215 - Promotional Materials and Dist	0.00	2,153.92	0.00	2,153.92
74220 - Translation Costs	0.00	29.12	0.00	29.12
74510 - Bank Charges	0.00	1.63	0.00	1.63
74598 - Services to projects -GOE	0.00	11.71	0.00	11.71
75105 - Facilities & Admin - Implement	0.00	1,607.97	0.00	1,607.97
76125 - Realized Loss	0.00	12.90	0.00	12.90
76135 - Realized Gain	0.00	- 175.55	0.00	- 175.55
Total for Fund 30000	0.00	21,545.00	0.00	21,545.00

Total for Activity ACTIVITY2 0.00 21,545.00 0.00 21,545.00

Activity : ACTIVITY3 (Drawingup forest carbon proj.)

Fund : 30000 (PROGRAMME COST SHARING)



UN Development Programme
Report ID: unglodrb

Combined Delivery Report by Activity

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Project Id : 00112788 Reduction of greenhouse gas em		Period : Jan-Dec (2022)		
Output # : 00111145 Reduction of greenhouse gas em		Impl. Partner : 01690 Government of Kazakhstan Location : Kazakhstan		
	Govt Exp	UNDP Exp	UN Agencies Exp	Total Exp
71205 - Intl Consultants-Sht Term-Tech	0.00	29,300.00	0.00	29,300.00
71211 - Intl Consult Security Charge	0.00	879.00	0.00	879.00
75105 - Facilities & Admin - Implement	0.00	2,414.32	0.00	2,414.32
Total for Fund 30000	0.00	32,593.32	0.00	32,593.32
Total for Activity ACTIVITY3	0.00	32,593.32	0.00	32,593.32
Activity : ACTIVITY4 (Project management)				
Fund : 30000 (PROGRAMME COST SHARING)				
64397 - Services to projects -CO staff	0.00	1,677.14	0.00	1,677.14
71415 - Contribution to Security SC	0.00	173.31	0.00	173.31
71470 - Natl Personnel Svcs Agreement	0.00	6,677.92	0.00	6,677.92
71610 - Travel Tickets-Local	0.00	419.00	0.00	419.00
71615 - Daily Subsistence Allow-Intl	0.00	401.54	0.00	401.54
71620 - Daily Subsistence Allow-Local	0.00	158.36	0.00	158.36
71635 - Travel - Other	0.00	190.42	0.00	190.42
72435 - E-mail-Subscription	0.00	288.27	0.00	288.27
74598 - Services to projects -GOE	0.00	718.75	0.00	718.75
75105 - Facilities & Admin - Implement	0.00	973.95	0.00	973.95
75705 - Learning costs	0.00	1,469.80	0.00	1,469.80
76135 - Realized Gain	0.00	-0.79	0.00	-0.79
Total for Fund 30000	0.00	13,147.67	0.00	13,147.67
Total for Activity ACTIVITY4	0.00	13,147.67	0.00	13,147.67
Total for Output : 00111145	0.00	117,388.63	0.00	117,388.63
Project Total :	0.00	117,388.63	0.00	117,388.63

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United Nations Development Programme
Country: Republic of Kazakhstan
Annual Work Plan 2022



the name of the project: Assisting the Republic of Kazakhstan in meeting international commitments to reduce greenhouse gas emissions by reducing the carbon footprint of electricity suppliers for leading technology company Bitfury

Award ID: 00112788

Project number: 00111145

Expected result of the joint venture: 3.2 By 2025, all people in Kazakhstan, especially the most vulnerable, will benefit from increased resilience to climate change, sustainable environmental and clean energy management, and sustainable rural and urban development.

Executing agency: Committee of Forestry and Wildlife of the Ministry of Ecology, Geology and Natural Resources of the Republic of Kazakhstan

Responsible partner: United Nations Development Programme in Kazakhstan

Short description

The purpose of the project is aimed at the implementation of complex measures in Kazakhstan to absorb CO2 emissions by forest ecosystems. The main objectives of the project will be achieved through activities to (1) reduce the carbon footprint produced by Bitfury's electricity suppliers in the Republic of Kazakhstan by 110% with a total consumption of 82 MW (2) support Kazakhstan's national initiative to create offset mechanisms to neutralize greenhouse gas emissions of gases as part of the commitments under the Paris Agreement (3) contribute to the achievement of the UN Sustainable Development Goal of restoring 350 million hectares of forests worldwide by 2030 as part of the fight against climate change (4) assessment of the impact to project results on the health of men and women in the project areas..

Program period	2021-2025	Annual budget 2022	\$133 766
Outcome of the strategic plan:	Outcome 2. Accelerated structural transformation for sustainable development.	Dedicated resources	\$133 766
The date of the beginning:	December 2019	Donor:	
Date of completion:	December 2024	Bitfury:	\$133 766
Gender marker:	2		
Control mechanism:	NIM		

Approved by UNDP Assistant Resident Representative

DocuSigned by:

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 Eugene Hong

23-Dec-2022

Approved by National Project Director

Daniyar Turgambaev

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II. Annual Work Plan 2022

EXPECTED RESULTS <i>and baseline, related indicators and annual targets</i>	PLANNED EVENTS <i>List of outputs and related actions</i>	Time frame					Planned budget	
		K1	K2	K3	K4	Source of financing	Description of the budget	Amount, USD
Final task: Offsetting at least 110% of Bitfury's carbon footprint from using conventional electricity to grow the business Result indicator: Number of forest carbon units offsetting emissions 622,978 tCO2 eq. Baseline:The number of forest carbon units offsetting emissions from unaccounted for forests has not been determined. Target: Implemented comprehensive measures in Kazakhstan to absorb CO2 emissions by forest ecosystems								
Project implementation								
Component 1: Transfer of unaccounted forests of East Kazakhstan region and Pavlodar region to the category of managed forests								
Outcome 1. At least 100,000 ha of unaccounted forests of East Kazakhstan and Pavlodar regions are transferred to the category of managed forests and registered in accordance with the legislation of the Republic of Kazakhstan. Indicator: The number of hectares of forest transferred to the protected and managed regime Baseline: 0 Target: 41,700 ha Gender marker: 2	1.1. Inventory of forests in Pavlodar,East Kazakhstan, Abay regions by conducting natural valuation in the format of state forest accounting (ongoing contract 2021-023s/a)	X	X	X		Bitfury	72100 Subcontracts with companies	27 000
	1.2. Drawing up land management projects for East Kazakhstan region (competitive procedures in 2022, creation of ROs in 2023)	X	X	X	X	Bitfury	72100 Subcontracts with companies	-
	1.3. Drawing up land management projects for the Pavlodar and Abay regions (competitive procedures in 2022, creation of ROs in 2023)		X	X	X	Bitfury	72100 Subcontracts with companies	-
	1.4. Preparation of legal and practical recommendations for forest carbon projects with gender analysis	X	X	X	X	Bitfury	71300 Local consultants	3 915
	1.5. Project support	X	X	X	X	Bitfury	71400 NPSA	15 036
	GMS for Component 1 (8%)						75100	3 611

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Total for Component 1:								48 742
Component 2: Creation of 20 hectares of green spaces in Pavlodar region								
Outcome 4. 20 ha of green spaces in Pavlodar region are created and transferred to the state. Indicator: Forest area created and transferred to the state forest Baseline: 0 Target: 20 ha forest area Gender marker: 2	2.1. Holding meetings with the Akimat of Pavlodar region and agreeing on sites for planting green spaces. Conducting working meetings during project implementation with stakeholders, taking into account gender balance the impact of gender issues on project results.			X	X	Bitfury	71600 Travel	1 527
	2.2. Development of a working project for the creation of a green zone in the city of Pavlodar		X	X		Bitfury	72100 Subcontracts with companies	21 726
	2.3. Creation of plantings of the green zone of the city of Pavlodar taking into account the impact of the created plantations on the health of men and women		X	X	X	Bitfury	72100 Subcontracts with companies	11 000
	2.4. Production of branded products considering gender-responsive approach		X			Bitfury	74200 Printed products	2 183
GMS for Component 2 (8%)							75100	1 915
Total for Component 2								38 351
Component 3: Preparation of forest carbon projects								
Outcome 5. Two forest carbon projects are drawn up and approved Indicators: 1) Design and technical documents for forest carbon projects 2) Validation report	3.1. Development of the idea (concept) of the forest carbon project taking into account the impact of gender issues on project results.			X	X	Bitfury	71200 – International experts	30 000
	3.2. Preliminary assessment of possible volumes of net absorption of greenhouse gases associated with the implementation of the forest carbon							

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Baseline: 0 Target: Design and technical documents for forest carbon projects Outcome 6. A set of documents for approval and registration of the project in the national registry of carbon projects is prepared Indicators: Project Concept, Project document, Monitoring plan Baseline: 0 Targets: Three documents – (1) project concept, (2) project document, (3) monitoring plan Gender marker: 2	project. 3.3. Development of design and technical documentation							
	GMS for component 3:						75100	1 190
	Total for Component 3:							31 190
Component 4: Project Management								
Indicators: 1) Development dynamics; 2) PMC decisions. Baseline: 1) Development of the project budget - 0%; 2) The PMC has been established, PMC meetings are held twice a year.	4.1. PMC meetings (online)	X	X	X	X	Blitfury	71400 NPSA	1 169
	4.2. Planning and reporting on project activities	X		X			71600 Travel	3 851
	4.3. Monitoring project implementation. Preparing periodic reports for stakeholders	X	X	X	X	Blitfury	71400 NPSA	3 000
							72400 Communications	288
							75700 Workshops	1 470

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Tasks: 1) Development of the project - 100%; 2) The PMC evaluates the implementation of the project as satisfactory. Gender marker: 2	4.4. DPC	X	X	X	X	Blitfury	74500	2 800
	GMS for Component 4:						75100	1 905
	Total for Component 4:							14 483
TOTAL								133 766