

VERIFICATION REPORT on GREENHOUSE GAS INVENTORY REPORT 2022 for

First Heartland Jusan Bank JSC Report no. SSDC-0180-OB

Revision 01 SSDC LLP

	KZ.V.01.1992		
	Greenhouse gas validation and verification entity		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04 Page 2 out		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01) of 37		

Acknowledgment of GHG inventory report				
Customer First Heartland Jusan Bank JSC	Customer's contact person K. Kuandykkyzy Lead Manager, Corporate Communications Service	SSDC LLP 010000, Astana D. Konayev street 12/1, room 6-03 phone.: +7 702 999 88 55		

Summary:

SSDC LLP performed audit and verification of GHG emissions inventory report for First Heartland Jusan Bank JSC for 2022. According to clause 4 of Article 304 of the Eco Code of the RoK, SSDC LLP is responsible for the reliability of verification and validation. SSDC LLP performed audit and verification of GHG emissions inventory report within the designated criteria from such documents as Eco Code of the RoK regarding the Regulation of greenhouse gas emissions, Order No. 12 of the Minister of Ecology, Geology and Natural Resources of the RoK dated January 14, 2022 "On approval of the rules for validation and verification", the GHG Protocol and other regulatory documents. Verification includes an assessment of: compliance of GHG inventory report with the established form and other requirements; compliance of inventory report, its structure and quality with the established requirements; assessment of reliability, errors, inaccuracies and omissions in the approval of the customer's GHG. SSDC LLP's approach to acknowledge the GHG inventory report is based on the understanding of the risks associated with reporting the greenhouse gas emissions data and controls measures to prevent them. SSDC LLP has planned and carried out the acknowledgment process by obtaining the evidence and other information and clarifications in order to provide reasonable guarantees that the specified information on greenhouse gas emissions of unit and information on the volume of products produced comply with monitoring approaches and methods, methodological support, quality control procedures, distribution of responsibility and authority and other criteria. Due to the change in the methodological approach of First Heartland Jusan Bank JSC, GHG inventory report was presented in the revision dated 11/12/2023. In our opinion GHG inventory report in the revision dated 11/12/2023 of First Heartland Jusan Bank JSC for 2022 correctly reflects data and information on direct (Scope 1) and indirect GHG emissions (Scope 2 and Scope 3), does not contain significant errors, inaccuracies and omissions and is reliable for the accepted limited level of assurance without determining the level of materiality. The report has been prepared in accordance with the established requirements and criteria in force in the Republic of Kazakhstan and existing international practice. GHG emissions of First Heartland Jusan Bank JSC for 2022 are confirmed in the amount of: **Total Emissions Scope 1+2+3:** 34.115.399 tons of total GHG emissions in carbon dioxide equivalent. **Direct emissions (Scope 1) are:** 1.755,530 tons of total GHG emissions in carbon dioxide equivalent. **Indirect emissions Scope 2 are:** 20.231,316 tons of total GHG emissions in carbon dioxide equivalent. Indirect emissions Scope 3 are: 12.128,552 tons of total GHG emissions in carbon dioxide equivalent. In 2022 CO2-equivalent was: (i) 34115.4 t CO2-eq. / 6120 employee = 5.57 t CO2-eq./employee (ii) 34115.4 t CO2-eq. / 140,766.25 sq.m. = 0.24 t CO2-eq./sq.m. Report no. SSDC-0180-OB Type of report: VR Head of an independent accredited organization: X Do not distribute Aida Maksut without the Director of SSDC LLA customer's Lead Verifier: permission Aida Maksut Limited distribution Unlimited distribution Date of this revision: 13/12/2023 Revision: 02



Content

1. INTRO	DUCTION	4
1.1	Purpose	4
1.2	Acknowledgment area	4
1.3	Customer data	5
2. METH	IODOLOGY	5
2.1	Documentation overview	6
2.2	Interview	6
3. EXPE	RT OPINION ON THE ACKNOWLEDGMENT OF GHG INVENTORY REPORT	8
ANNEX	A - SSDC-F-05 VERIFICATION PROTOCOL ON GHG EMISSION INVENTORY REPORT.	.10
2		.32
2		.32
13		.32
13		.33
13		.33
13		.33
13		.33
18		.34
SSDC-F	-06 Verification and/or Validation Visit Plan	.35
SSDC-F	-03 LIST OF DOCUMENTATION RECEIVED FROM THE CLIENT	.37



1. INTRODUCTION

First Heartland Jusan Bank JSC authorized SSDC LLP to carry out actions aimed at verification of GHG emissions inventory report for **2022** in accordance with the requirements of GHG Protocol, environmental legislation in terms of GHG emissions regulation. This report contains the results of such confirmation and conclusions regarding GHG inventory report for **First Heartland Jusan Bank JSC** for **2022**.

1.1 Purpose

Verification of GHG inventory report is an independent verification by accredited independent organization of the compliance of GHG inventory report with the requirements for these documents established in the RoK.

The acknowledgment purpose of GHG inventory report is to detect its compliance with the requirements of GHG Protocol, approved national and international methodologies; assessment of the completeness, reliability and quality of data and information on greenhouse gases, assessment of deviations from previous periods of information on GHG, assessment of monitoring and control means.

The purpose of this work was to verify GHG emissions inventory report of **First Heartland Jusan Bank JSC** for **2022**. The work was carried out to obtain the expert opinion (professional opinion) on GHG emissions inventory report with **limited** level of assurance.

SSDC LLP is an accredited independent organization performing verification and validation activities for greenhouse gases in accordance with the Certificate of Accreditation no. KZ.V.01.E1491 issued by the National Accreditation Center valid-from date 30/12/2022 until 30/12/2027.

1.2 Acknowledgment area

Acknowledgment area for First Heartland Jusan Bank JSC is an assessment:

- Compliance of GHG inventory report with the established form and other requirements;
- Reliability, completeness and significance of data and information on GHG emissions;
- Reliability, completeness and significance of the data for the reporting period;
- Accuracy of performed calculations and justification of application of quantitative methods for calculating GHG emissions;
- Means of monitoring and controlling of GHG emissions.

Verification of GHG inventory report doesn't include the consulting services to the Customer. Whereas the identified irregularities and requests for the revision can be used to improve GHG emissions inventory report.



1.3 Customer data

The detailed information of the customer is given below:

Customer's name:	First Heartland Jusan Bank JSC
Unit:	First Heartland Jusan Bank JSC
Legal address of the	N. Nazarbayev ave. 242, Almaty, Republic of Kazakhstan,
Customer:	
Activity sector:	Banking activities

For the purposes of the report the boundaries of the organization's report include the following GHG emissions:

Direct emissions (Scope 1) from sources owned by the Bank include GHG emissions from fuel combustion on equipment located directly at the Bank's facilities (emergency generators, boilers), as well as volatile GHG emissions from industrial or household equipment (refrigerant leaks from air conditioning systems of stationary and mobile facilities).

GHG emissions from mobile sources owned by the Bank.

Indirect emissions (Scope 2) from purchased electrical energy and thermal energy at own facilities.

Indirect emissions (Scope 3) from sources that are leased include GHG emissions from fuel combustion on equipment located directly at the Bank's leased facilities (for example, boilers); volatile GHG emissions from industrial or household equipment (for example, refrigerant leaks from air conditioning systems of stationary and mobile leased facilities); GHG emissions from mobile sources that are leased; indirect emissions from purchased electric energy and thermal energy for facilities leased from the Bank; indirect emissions from used water, paper, waste generated at all Bank facilities; as well as indirect emissions resulting from employee's travel from home to workplace)

2. METHODOLOGY

Internal procedures of SSDC LLP were used in the confirmation process. Verification protocol on GHG inventory report (SSDC-F-05) was drawn up to ensure transparency and objectivity of acknowledgment process on GHG inventory report, including the requirements of GHG Protocol, Eco Code of the RoK regarding the regulation of GHG emissions; order of the Minister of Ecology, Geology and Natural Resources of the RoK dd. January 14, 2022 No. 12 "On approval of the rules for validation and verification".

Acknowledgment protocol of GHG emissions inventory report has the following tasks:

- organizes the details and clarifies the requirements which GHG emissions inventory report should meet;
- ensures transparency of the acknowledgment process due to the fact that the verifier records the method of verification of an individual requirement and the result of verification.

The completed verification protocol is in the Annex A to this report.

The verification procedure consists of analytical review of documentation, interview with customer representatives to later exchange information and resolve outstanding issues.



The duration of the acknowledgment process:

Preparation and Stage 1 of verification and/or validation: Interview and Stage 2 of verification and/or validation: Reporting, solution of issues, quality control: Re-verification due to the changes of: methodological approach from 21/02/2023 to 23/02/2023 from 23/02/2023 to 23/02/2023 from 23/02/2023 to 3/03/2023 from 6/12/2023 to 13/12/2023

2.1 Documentation overview

The customer provided SSDC LLP with all the necessary documentation. **First Heartland Jusan Bank JSC** assessed GHG emissions inventory report for 2022 during the acknowledgment process.

Additional documents such as electronic calculation worksheet, current and summary reports on the customer's GHG, financial documents, job procedures were also reviewed during the acknowledgment.

The information and formulas provided in GHG inventory report were compared with the stated data sources.

The customer replied the requests of SSDC LLP on review and updating GHG inventory report and presented it as revision dated **3/3/2023**.

On December 6, 2023 the bank requested a re-verification after the methodological approach was changed, and presented the revision dated 11/12/2023.

This report assesses the latest revision of the report dated 11/12/2023.

2.2 Interview

SSDC LLP had an interview with authorized persons of First Heartland Jusan Bank JSC on February 23, 2023 during the visit of Almaty central offices. First Heartland Jusan Bank JSC provided all necessary additional documents related to the report.

The persons interviewed are listed in the table below:

Full name	Organization and position	The subject of the interview
Karlygash Kuandykkyzy	First Heartland Jusan Bank JSC, Lead Manager, Corporate Communications Service	Greenhouse gas inventory report for 2022
Gulzat Mukanova	First Heartland Jusan Bank JSC, General Manager of Administrative Department	

2.3 Answering the requests for clarification, corrective action requests and requests for further actions.

When the greenhouse gas inventory report didn't meet the requirements SSDC LLP noted this case as corrective action request (CAR). In case of insufficient information for an unambiguous decision on non-compliance with the requirements, SSDC LLP noted this case as a request for clarification (RF). The request for further action (FTA) informs the plant operators on the issue related to the greenhouse gas inventory report and should be reviewed during the next verification period.



SSDC LLP honestly assessed the measures taken by the customer, gave satisfactory solution of the issues in Annex A to this report, and drew conclusions based on the results of the audit.



3. EXPERT OPINION ON THE ACKNOWLEDGMENT OF GHG INVENTORY REPORT

SSDC LLP performed the audit and Verification of GHG emissions inventory report for **First Heartland Jusan Bank JSC** for **2022**. The company takes responsibility for adequate provision of accurate information in the GHG emissions inventory report, data collection and reporting on GHG emissions in the result of company's activities. SSDC LLP is responsible for statement of independent verification – acknowledgment of GHG emissions inventory report.

SSDC LLP performed the audit and verification of GHG inventory report based on the specified criteria contained in such documents as:

- Eco Code of the Republic of Kazakhstan regarding the regulation of greenhouse gas emissions;
- Order of the Minister of Ecology, Geology and Natural Resources of the Republic of Kazakhstan dated January 14, 2022 No. 12 On approval of the Rules for validation and verification
- GHG Protocol
- Other regulations, rules.

Verification includes an assessment:

- Compliance of GHG inventory report with the established form and other requirements;
- Compliance of GHG inventory report, its structure and quality
- Reliability, completeness and significance of data and information on GHG emissions;
- Accuracy of performed calculations and justification of application of quantitative methods for calculating GHG emissions;
- Means of monitoring and controlling of GHG emissions.

SSDC LLP's approach to acknowledge the GHG inventory report is based on the understanding of the risks associated with reporting the greenhouse gas emissions data and controls measures to prevent them. SSDC LLP has planned and carried out the acknowledgment process by obtaining the evidence and other information and clarifications in order to provide reasonable guarantees that the specified information on greenhouse gas emissions of unit and information on the volume of products produced comply with monitoring approaches and methods, methodological support, quality control procedures, distribution of responsibility and authority and other criteria.

Due to the change in the methodological approach of First Heartland Jusan Bank JSC, GHG inventory report was presented in the revision dated 11/12/2023.

In our opinion GHG inventory report in the revision dated **11/12/2023 of First Heartland Jusan Bank JSC** for **2022** correctly reflects data and information on GHG emissions, does not contain significant errors, inaccuracies and omissions and is reliable for the accepted **limited** level of assurance without determining the level of materiality. The report has been prepared in accordance with the established requirements and criteria in force in the Republic of Kazakhstan and existing international practice.

GHG emissions of First Heartland Jusan Bank JSC are confirmed in the amount of:

Total Emissions Scope 1+2+3:

34.115,399 tons of total GHG emissions in carbon dioxide equivalent. Direct emissions (Scope 1) are:

1.755,530 tons of total GHG emissions in carbon dioxide equivalent.



Indirect emissions Scope 2 are:

20.231,316 tons of total GHG emissions in carbon dioxide equivalent. Indirect emissions Scope 3 are: 12.128,552 tons of total GHG emissions in carbon dioxide equivalent.

In 2022 CO2-equivalent was:

(i) 34115.4 t CO2-eq. / 6120 employee = 5.57 t CO2-eq./employee (ii) 34115.4 t CO2-eq. / 140,766.25 sq.m. = 0.24 t CO2-eq./sq.m.

	KZ V 01 1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027 Legal address: D. Konavev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04 Page 10 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)		

ANNEX A – SSDC-F-05 VERIFICATION PROTOCOL ON GHG EMISSION INVENTORY REPORT

No.	Verification criteria	Preliminary conclusion	Request to the client	Analysis of the client's actions	Conclusion
1	Does the report form comply with the requirements of THE GREENHOUSE GAS PROTOCOL)	The report form complies with the requirements of the GHG protocol	-	-	ОК
2	Information about the organization, as	First Heartland Jusan Bank Joint Stock Company (hereinafter referred to as the	ZR-01 Existence of	Provided by	OK
	well as about the boundaries of the	Bank) is a legal entity that is a commercial organization that, in accordance with the Bank's Charter and regulatory legal acts of the Republic of Kazakhstan is	organization's charter	Provided by	OK
	compiling this report (inventory of	authorized to carry out banking activities.	approved	I lovided by	OK
	GHG emissions)	On a voluntary basis, in order to increase the transparency of its activities, as well	organizational		
		as to contribute to improving environmental performance and minimizing	structure of the Bank		
		GHG emissions. The preparation and publication of GHG emissions report is also			
		intended to serve as a model for implementation of the principles of sustainable			
		development and encourage the Bank's clients and partners to implement the			
		best national and international corporate governance practices.			
		This report does not take into account the Bank's operations related to the rendering			
		of services by the Bank to third parties that are not related to the main activity of			
		the Bank, and those that could be considered as the Bank's performance of the statutory activities of such third organizations on a contractual basis			
		The boundaries of this report include all facilities that are under the operational			
		control of the Bank. Thus, as of the end of the reporting calendar year, namely, as			
		of December 31, 2022, 146 real estate objects, as well as 122 units of motor			
		vehicles (6/ units leased by the Bank and 55 units registered) were under the operational control of the Bank			
		The operational reporting boundaries include direct GHG emissions from facilities			
		owned by the Bank (Scope 1), emissions from electricity and heat consumption			
		(Scope 2), as well as indirect GHG emissions from leased stationary and mobile			
		are not the result of activities assets owned or controlled by him (Scope 3).			

	SSDC LLP Verification report		Greenhouse gas Accreditation certificate no. Legal address: I 01 SSDC - F (SSDC-MAN-01, SSDC-PR-01, SSDC-F	KZ.V.01.1992 Svalidation and verification KZ.V.01.E1491 valid unt D. Konayev street 12/1, ro 10000, Astana, RoK 7- 04 PR-06, SSDC-PR-07, SSDC-WI	on entity il December 30, 2027 oom 6-03	Page 11 out of 37
		As of the end of the reporting ye emissions (direct and indirect) en	ear (31/12/2022), the Bank carried out GHG xclusively on the territory of the Republic of			
		Kazakhstan. For the purposes of these reports Bank facilities within organizati branches and the Bank as a who	s, activity data is collected at the level of individual onal boundaries, followed by their consolidation by le.			
3	Have certain sources of GHG emissions, facilities, or certain activities been excluded from this report? If yes, specify which ones	This report does not take into ac Bank's collateral facilities, since affecting changes in GHG emiss	count the amount of emissions generated at the the Bank is unable to make management decisions tions at these facilities			OK
4	Description of the approach to define the boundaries of organization for the purposes of compiling GHG emissions report, as well as for the approach used to data consolidation.	For the purposes of GHG emissi operational control over facilitie was chosen based on the specific organizations of this sector. Mor for the preparation of regular fin operational control over the faci the facilities that are leased by th economic and ancillary activities making management decisions r which may lead to changes in G as an object of real estate, as we Some of the facilities within the Bank on lease terms, in which th settlements directly with utility p thus, the Bank does not have infr resources, sanitation and waste g such facilities are within the bou emissions are estimated for such The real estate objects where eco 2022 are distributed as follows: total number of real estate object own objects make up, 53% respo objects. At the same time, the ra	ons report, the Bank uses an approach based on s and sources of GHG emissions. This approach cs of banking activities and is typical for reover, this approach is based on the requirements ancial and statistical reports. The Bank carries out lities that are owned by the Bank, as well as over ne Bank, but are involved in the performance of s. Operational control refers to the possibility of egarding the operational activities of the facility, HG emissions. Hereinafter an object is understood II as mobile objects that lead to GHG emissions. boundaries of the organization are used by the ne owner/manager of the leased property makes providers throughout the building as a whole and, ormation about the actual consumption of energy generation at directly leased facilities. Nevertheless, indaries of the organization and the values of GHG facilities, as described in Annex 1. onomic and auxiliary activities are carried out in leased property makes up 47% (68 objects) of the ts under the operational control of the Bank, and ectively (78 objects) of the total number of 146 tio of the area of objects has a significant	-		OK

SSDC LLP Verification report	KZ.V.01.19 Greenhouse gas validation and Accreditation certificate no. KZ.V.01.E149 Legal address: D. Konayev stru 010000, Astana, SSDC - F - 04 (SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-06)	992 d verification entity 1 valid until December 30, 2027 eet 12/1, room 6-03 , RoK 07, SSDC-WI-01) Page 12 out of 37
advantage thousand s meters) are thousand s The Bank's from the B transport s possibility (31/12/202 the Bank u consumes also uses ta The operat emissions: Direct em emissions facilities (c industrial c of stationa GHG emis Indirect e for facilitie This Bank of preparat	over the group of objects owned by the Bank, where 87% (122.2 quare meters) are owned by the Bank and 13% (18.6 thousand square e leased by the Bank. The total area of the Bank's real estate is 140.8 quare meters. s mobile facilities are vehicles. A certain part of the vehicles is leased ank. In this case, lease refers to long-term contracts for the provision of ervices with external contractors, as well as short-term contracts with the of their prolongation. In total, at the end of the reporting period !2), the Bank leased 67 units of vehicles. In addition to rented vehicles, uses automotive equipment, which is registered with the Bank, and also fuel according to the distribution of cards/accounts (55 units). The Bank axis for the official purposes of employees. ional reporting boundaries include the following categories of GHG issions (Scope 1) from sources owned by the Bank include GHG from fuel combustion on equipment located directly at the Bank's emergency generators, boilers), as well as volatile GHG emissions from or household equipment (refrigerant leaks from air conditioning systems ry and mobile facilities). sions from mobile sources owned by the Bank. missions (Scope 2) from purchased electrical energy and thermal energy es owned by the Bank. report evaluates the following 4 out of 6 main types of GHG (at the time tion of this report, there is no information on emissions of sulfur de (SF6) and PFC at the Bank's facilities):	

	ESDC LLP Verification report		Greenhouse gas Accreditation certificate no. Legal address: I 0 SSDC - F (SSDC-MAN-01, SSDC-PR-01, SSDC-F	XZ.V.01.1992 validation and verification KZ.V.01.E1491 valid unti- D. Konayev street 12/1, ro 10000, Astana, RoK 7 - 04 PR-06, SSDC-PR-07, SSDC-WI-	on entity il December 30, 2027 om 6-03	Page 13 out of 37
5	Information on the inclusion into the report the data on volume of Category 3 emissions (other indirect GHG emissions), indicating which activities are included in the report.	Indirect emissions (Scope 3) in Category 1: procureme Category 5: waste gen Category 7: Employee Category 6: employee Category 8: property 1 The choice of these categori organizations and the availabil development of this report. The 15) in future reporting periods	clude the following categories: ent of products and services (office paper) erated during the organization's activities business trips s' travel to site and back eased in the upper segment tes is justified by their relevance to financial ity of source data for calculation at the time of e Bank plans to assess funded emissions (category			ОК
6	The reporting year.	from 1/01/2022 to 31/12/2022				ОК
7	Information on the total emissions of Category 1 (direct GHG emissions) and Category 2 (indirect GHG emissions from imported energy), as well as (optional) Category 3, excluding any transactions involving the acquisition, sale, transfer or storage of carbon units.	According to the report: The Bank's total GHG emissions GHG emissions in tons of CO2 Scope $1 - 1755.530$ tons of CO2 Scope $1 - 20,231.316$ tons of CO Scope $3 - 12,128.552$ tons of CO	s for 2022 amounted to 34,115.399 tons of CO2 eq. eq. in 2022, separately for each category were: 2 eq. D2 eq. D2 eq.			OK
8	Information on the volume of emissions separately for each type of GHG (CO2, CH4, N2O, HFCs, PFCs, SF6), expressed in tons and in tons of CO2 equivalent.	According to the report: CO2 - 30,827.556 tons CH4-95.503 tons N2O- 0.947 t HFC- 0.447 t Total GHG emissions (scope 1+	scope 2+ scope 3) 34,115.399 t CO2 eq.			OK
9	Information about the choice of the base year, as well as the dynamics of the organization's emissions by year, taking into account the policy of recalculating the volume of GHG emissions of the base year and an	Information about choosing a ba 2022 was chosen as the base yea operational reporting boundaries Bank's leased facilities (stational Scope 3 (category 8).	use year ar because Scope 3 emissions were included into s. In addition, since 2022, emissions from the ry and mobile sources) have also been assigned to			

-						
			[KZ.V.01.1992		
			Greenhouse gas	validation and verification ent	ity	
			Accreditation certificate no.	KZ.V.01.E1491 valid until Dec	ember 30, 2027	
			Legal address: [). Konavey street 12/1, room 6-	-03	
	SSDC LLP		01	10000 Astana RoK		
-	Verification report		SSDC - E	F - 04	P	age 14 out of 37
	vermeation report		(SSDC-MAN-01, SSDC-PR-01, SSDC-P	PR-06, SSDC-PR-07, SSDC-WI-01)		
L				, , , ,		
	explanation of the recalculation	The dynamics of the organization	n's emissions by year			
	policy	The total GHG emissions of the	Bank in 2022 amounted to 34115 4 tons of in			
	poncy.	2021 20304 5 tons of in 20	Dank in 2022 amounted to 54115.4 tons of $C02$, in			
		$2021 - 20304.5$ tons of $_{CO2}$, in 2022 approach to $_{CO2}$	2021 (by 12210 0 tons of CO2 as an 68%) is			
		emissions in 2022 compared to	2021 (by 15810.9 tons of CO2-eq of 68%) is			
		associated with the inclusion of	Scope 3 emissions in the report. Emissions for			
-		2020-2021 were not recalculated	as 2022 was chosen as the base year.			
-	10 Explanation of the policy for	The Bank's policy in regard to the	ne recalculation of GHG emissions of the base year			OK
	recalculation of GHG emissions in	assumes the recalculation if their	e is a significant change in the volume of GHG			
	the base year	emissions of the Bank, namely,	above 10% compared to the previous year, as a			
		result of the occurrence of one of	or more of the following conditions:			
		 organizational changes in the s 	structure of the Bank, which include a change in			
		ownership or transfer of control	over facilities between organizations, one of which			
		is Bank. (mergers, acquisitions,	closure or sale of facilities);			
		 transferring certain functions t 	o contractors or obtaining a contract to perform			
		certain operations in the interest	s of others;			
		• changes in the methodology for	r calculating the Bank's GHG emissions or an			
		increase in the accuracy of activ	ity data or the emission factor, which lead to			
		exceeding the above threshold v	alue;			
		• identification of significant e	rrors or identification of a certain number of non-			
		significant errors that collective	v exceed the above threshold of materiality.			
-	Description of the events that led to a	It does not apply because 202	2 was selected as the base year. Indirect Scope 3			OK
	significant change in the volume of	emissions were included in f	he 2022 report and emissions related to leased			011
	GHG emissions of the organization	stationary and mobile sources w	ere sent to Scope 3			
	and accordingly to the recalculation	stationary and mobile sources w	ere sent to scope 5.			
	of the volume of emissions of the base					
	vear (merger/alignation outcourging of					
	services changes in installation					
	boundaries or changes in the					
	methodology for coloulating CHC					
	amiggiong stal					
-	emissions, etc.)	Courses of time (CHC				OV
-	12 Information on the volume of	Sources of direct GHG emission	is located within the boundaries of the organization	- -		UK
	direct GHG emissions from the use	do not use biomass or biofuels i	n the combustion process.			
	of biogenic carbon (i.e. CO2	1				1

	KZ.V.01.1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04 Page 15 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)	_	

	emissions from the combustion of				
	biomass and biofuels) is given				
	separately from information on the				
	volume of emissions by Category.				
13	Calculation methodology or measuring	CALCULATION METHODOLOGY OF EMISSION SCOPE 1	ZR-03 Give	Provided by	OK
	of GHG emissions, as well as	Emissions from energy burning of fuel:	supporting documents		
	references to the used calculation tools.	This category of emissions includes the combustion of fuel to have generating	on the volume of fuel		
		energy from stationary sources (boilers, diesel generators) and mobile sources	used from stationary		
		(cars) owned by the Bank.	sources Scope 1 for		
		Stationary sources	review at the site of		
		Thus, at the end of 2022, 18 units of equipment consuming natural gas were	the company		
		operated at the Bank's facilities (the capacity of the equipment is in the range from	ZR-04 Give		
		35 kW to 434 kW) and 55 units of equipment consuming diesel fuel (54 units of	supporting documents		
		diesel generator equipment and 1 diesel boiler) owned by the Bank. Lead Bank	on the volume of fuel		
		collects information independently because the purchase of fuel for stationary	used by mobile		
		sources is carried out centrally in LB to calculate GHG emissions from fuel	sources Scope 1 for		
		combustion at the location of stationary facilities. When using conservative	review at the site of		
		approach an approach is used where the entire volume of purchased fuel is	the company		
		considered consumed during the calendar year it was purchased.	ZR-05 Existence of	Provided by	OK
		Mobile sources	supporting data on the		
		The Bank keeps monthly records of fuel consumed by motor vehicles based on the	number of business		
		distribution of cards/accounts. Data on the actual consumption of gasoline and	trips of employees,		
		diesel fuel in liters are consolidated for the reporting year.	their directions		
		Activity data:	ZR-06 Existence of		
		Stationary sources:	supporting documents		
		Natural gas - 267,613.65 m ³	on the amount of heat		
		Diesel fuel - 23169.28 liters	consumed Scope 2		
		Mobile sources:	and 3		
		Gasoline: 291,807.9 liters.	ZR-07 Existence of		
		Diesel fuel: 8227.38 liters.	supporting documents		
		Emission factors (hereinafter referred to as EF): Default emission factors according	on the amount of		
		to the IPCC 2006 are used to calculate GHG emissions.	consumed electric		
		Stationary sources:	energy Scope 2 and 3	Provided by	OK

SSDC LLP Verification report		Greenhouse gas Accreditation certificate no. Legal address: I 0 (SEDC MAN 01_SEDC PP 01_SEDC - 1	KZ.V.01.1992 s validation and verification KZ.V.01.E1491 valid unt D. Konayev street 12/1, rc 10000, Astana, RoK F - 04	on entity til December 30, 2027 pom 6-03	7 Page 16 out of 37
		(35DC-MAN-01, 55DC-FR-01, 55DC-	rk-00, SSDC-rk-07, SSDC-wi	-01)	
	EF (natural gas): CO $_2$ - 56.1 t/T EF (diesel fuel): CO $_2$ - 74.1 t/T. <i>Mobile sources:</i> EF (diesel fuel): CO $_2$ - 74.1 t/T. EF (gasoline): CO $_2$ - 69.3 t/TJ, Based on the fact that the volum gasoline) is taken into account in volume of fuel consumed is con value specified in Annex 2 (Tab mass quantities, the values are u equivalent of each type of fuel in (EF) for all three types of GHG: emissions in CO ₂ -eq, valuated a both types of fuel are multiplied purposes of this report, the GWI 298. Emissions of CO $_2$ and CO of this subcategory in a calendar Emission calculation tool: GHG data (in energy equivalent) by th fuel (see calculation in the excel HFC emissions from air condit (HFC) emissions that enter the a <i>Stationary and</i> mobile air condit (HFC) emission factor, dependir (Table 7.9 Volume 3, Chapter 7 technical characteristics of the c available, the charge of the air c	TJ, CH $_4$ - 0.001 t/TJ, N $_2$ O - 0.0001 t/TJ J, CH $_4$ - 0.003 t/TJ, N $_2$ O - 0.0006 t/TJ J, CH $_4$ - 0.0039 t/TJ, N $_2$ O - 0.0039 t/TJ CH $_4$ - 0.033 t/TJ, N $_2$ O - 0.0032 t/TJ e of fuel consumed (natural gas, diesel fuel, n physical quantities (thousand m ³ and liters), the verted into energy units (TJ) using the net calorific de P2-1). To convert volumetric quantities into used (Annex 2, Table P2-2). The resulting energy s multiplied by the corresponding emission factor CO $_2$, CH $_4$, and N $_2$ O. To calculate the amount of mount of direct GHG emissions CH $_4$ and N $_2$ O of by the global warming coefficient. For the P values for methane are 25 and nitrous oxide is $_2$ -eq.are summarized to obtain the total emissions r year. emissions are calculated by multiplying activity the corresponding emission factor for each type of l spreadsheet). tioning systems: tioning systems are sources of hydrofluorocarbon atmosphere as a result of leaks from equipment. <i>ems</i> om air conditioning systems involves the use of an tors according to IPCC 2006 (Volume 3, Chapter ions are estimated by multiplying the initial charge and on the type of air conditioning system used of the IPCC 2006). Since data on the number and dimate control equipment in the Bank are not onditioners was estimated based on the assumption		Provided by Provided by Provided by	ок ок ок

		Greenhouse gas Accreditation certificate no. 1 Legal address: 1	KZ.V.01.1992 Svalidation and verification KZ.V.01.E1491 valid unti X.Konayev street 12/1, ro	on entity il December 30, 2027 om 6-03	
SSDC LLP		01	10000, Astana, RoK		
Verification report		SSDC - F	7 - 04		Page 17 out of 37
		(SSDC-MAN-01, SSDC-PR-01, SSDC-P	PR-06, SSDC-PR-07, SSDC-WI-	01)	
to ref Ac HI U V At At Ac of En EF En MA Ar ch ch ch ch 20 R- ref 14 Ac of En EF En MA Ar ch ch ch ch ch ch ch ch ch ch ch ch ch	35 square meters contains 1.0 frigerant is required to cool 1 s ccording to the Bank, refrigera FC-32 - 50%) are used in stati- pes of refrigerant is unknown, t the same time, the calculated <u>ctivity data:</u> the area of air-core refrigerant for cooling 1 sq.m <u>mission factors:</u> F: 10% of the charge <u>mission calculation tool:</u> Excel <i>lobile</i> air conditioning systems n emission factor-based appro- narge of the mobile air conditionarge range per vehicle accordia 006. -134a is the type of refrigerant frigerant for automotive air co 430. <u>ctivity data:</u> 55 units (number - one mobile air conditioner is <u>mission factors:</u> F: 20% of the charge <u>mission factors:</u> F: 20% of the charge <u>mission calculation tool:</u> Excel COPE 2 METHODOLOGY alculation of indirect greenh- ectricity at facilities owned b cope 2 emissions are calculated ctors reflecting the intensity of ata on the consumption of elect invoices for services for each <u>mission factors:</u> Emission factors invoices for services for each <u>mission factors:</u> Emission factors invoices for services for each <u>mission factors:</u> Emission factors	 5 kg of refrigerant. Then, proportionally, 0.03 kg of sq.m of the room. nnts R-32 (HFC-32) and R-410a (HFC-125 - 50%; onary air conditioners. Since the exact ratio of these it is assumed that value of their GWP is average. GWP value for the refrigerant mixture was 1381. nditioned buildings is 122,198.13 sq.m. The amount is 0.03 kg. l spreadsheet. : ach is also used to calculate emissions. The initial oning system is taken as the average value of the ing to Table 7.9 Volume 3, Chapter 7 of the IPCC used by default (as the most common type of nditioning systems). The GWP of HFC-134a is of vehicles owned by the Bank). The initial charge 1 kg. l spreadsheet. d spreadsheet. <			

SSDC LLP Verification report		Greenhouse gas Accreditation certificate no. J Legal address: D 01	KZ.V.01.1992 validation and verificatio KZ.V.01.E1491 valid unti 0. Konayev street 12/1, roc 10000, Astana, RoK	n entity l December 30, 2027 om 6-03	Page 18 out of 37
venneation report		(SSDC-MAN-01, SSDC-PR-01, SSDC-P	PR-06, SSDC-PR-07, SSDC-WI-0	01)	1 ugo 10 out of 37
	electric (kW*h) and thermal (Gc Annual emission reporting of the fuel and energy balance of the R calculation data. A detailed calc presented in Excel. <u>Activity data:</u> Electric energy consumption: 14 Thermal energy consumption: 17 <u>Emission factors:</u> <i>EF in the production of electric</i> EF CO ₂ – 0.00095 t CO ₂ / kW*h EF CH ₄ – 0.00000001 t CH ₄ / kW EF N ₂ 0 – 0.00000001 t N ₂ 0/kW* <i>EF in the production of heat ener</i> EF CO ₂ – 0.358 t CO ₂ / Gcal EF CH ₄ – 0.000005 t CH ₄ / Gcal EF CH ₄ – 0.000005 t CH ₄ / Gcal EF CH ₄ – 0.000005 t N ₂ 0/ Gcal Emission calculation tool: Excel CALCULATION METHODO Category 1: procurement of pr GHG emissions are generated du 2022, the Bank purchased 90,85 according to purchase requests a meant to be used for 2022. The of multiplying the amount of paper for calculating the carbon footpr production to the first business t paper on the distribution platform considered due to the lack of acco of paper's life cycle is excluded <u>Emission factors (EF):</u> EF – 4.74 rCO2-eq./pcs A4	 cal) energy according to Annex A of GHG Protocol. e RoK to the UNFCCC and statistical data from the cok for 2021 were used as initial data for the culation of the coefficients for energy production is 4,620,943.99 kW*h 7,525.85 Gcal energy: W*h *h ergy: I spreadsheet. DLOGY OF EMISSION SCOPE 3 roducts and services (office paper) uring the life cycle of paper production. Thus, in 9 A4 paper packages of 500 pcs in each package and payment invoices. This amount of paper is emissions for this subcategory are calculated by t used and the emission factor. In the methodology int of office paper is determined from the start of ransaction (before the arrival of finished office m). Delivery to the end user, i.e. the Bank, is not curate data on the distances covered. Also the end from the boundaries. 			

	k	Z.V.01.1992	
	Greenhouse gas	validation and verification entity	
	Accreditation certificate no. K	XZ.V.01.E1491 valid until December 30, 2 Konavay street $12/1$ room 6.03	2027
SSDCLLP	1 Legal address: D	0000. Astana. RoK	
Verification report	SSDC - F	- 04	Page 19 out of 37
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PI	R-06, SSDC-PR-07, SSDC-WI-01)	
Activity data: 90.859 pcs	(number of A4 paper packages)		
Emission calculation tool	Excel spreadsheet.		
Category 5: waste gener	rated during the organization's activities		
This category includes er	nissions from the disposal and recycling of Bank waste, as		
Well as emissions related Waste disposal and recyc	to wastewater discharge.		
Mixed solid municipal w	aste generated during the Bank's operational activities is		
transferred to specialized	organizations for further disposal. For reporting purposes		
it was assumed that the end	ntire volume of mixed waste generated ends up in		
landfills. In the process o	f decomposition of waste in landfills, methane is released.		
To convert the volume (n	$(1)^{3}$ of the formed mixed waste into mass (t), the density		
indicator for household n Methodology for calculat	inxed waste (0.2 t/m ²) is used according to Annex 3 of the		
transportation sorting an	the burial of the Order of the Minister of Ecology Geology		
and Natural Resources of	the Republic of Kazakhstan dated September 14, 2021		
No. 377.			
The volume of methane e	missions is estimated as the product of the generated		
mixed waste in tons by the	e national emission factor for landfills equal to 0.03 t		
CH_4 /ton of waste ² . Emiss	ions in tons of CH_4 were multiplied by 25 to convert to		
From 2022 some offices r	of the Bank collect and sort the waste (waste naner, glass		
plastic, aluminum, polyet	hylene and tin). In the calculations of emissions it was		
assumed that the entire ve	blume of waste sorted by the Bank is transferred to		
recycling.			
To estimate emissions fro	m the processing of these types of waste, international		
estimated emission factor	s were used, expressed in tons of $_{CO2}$ /short ton of waste. A		
conversion factor of 1.10	251 (1 metric ton=1.10231 net tons) was used to convert		
The volume of emissions	from waste recycling is calculated as the product of the		
volume of sorted waste re	ady for recycling and corresponding emission factors		

¹ Coefficient according to the reporting of RoK in the UNFCCC (CFR tables 2021) Table 5.A for uncontrolled landfills

SSDC LLP Verification report	KZ.V.01.1992 Greenhouse gas validation and verification entity Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027 Legal address: D. Konayev street 12/1, room 6-03 010000, Astana, RoK
vernication report	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-07, SSDC-WI-01)
given below. Activity data: The volume of mixed waste get Volumes of sorted waste, by ty 	neration is 12,916.75 m ³ pe: 50 kg g kg H ₄ /ton of waste pe: neters. ICO 2 eq. /net ton of waste ters. meter. ICO 2 eq. /net ton of waste ters. meter. ICO 2 eq. /net ton of waste ters. meter. ICO 2 eq. /net ton of waste meters. ICO 2 eq. /net ton of waste meters. ICO 2 eq. /net ton of waste ter treatment oning the wastewater is formed when it goes from unicipal wastewater is formed when it goes from unicipal wastewater treatment plants. This process ions. Methame emissions for this subcategory is IC 2006 based on the number of employees and he number of employees (people) by the biological m/day) according to Table 6.4 of the IPCC 2006 y conversion factor from g BOD to kg BOD - 0.001, fficient for additional industrial discharges of BOD It to be 1) for 365 days, then multiplying by the he reporting of the RoK to the UNFCCC, equal to iplying by the conversion factor from kg CH ₄ to tons

	KZ.V.01.1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04	Page 21 out of 37	
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)	-	

	CH ₄ - 0.001.		
	<i>Nitrous oxide</i> emissions for this subcategory is also calculated according to the		
	IPCC 2006 based on the number of employees, annual protein consumption per		
	capita, taken from the reporting of the RoK to the UNFCCC and default values by		
	multiplying the number of employees (people) by the amount of protein per capita		
	(37.6 kg/person/year) multiplying by the proportion of nitrogen in protein, by		
	default = 0.16 kg N/kg protein, multiplying by the coefficient for correcting non-		
	consumed protein, adopted by default for developing countries as 1.1, multiplying		
	by the coefficient of joint discharge of industrial and commercial protein into the		
	sewer system (by default=1.25), then multiplying by the emission factor = 0.005 kg		
	N2O-N/kgN, by a factor of 44/28 (to convert kg N_2 O-N to kg N_2 O) and by a		
	conversion factor from kg N_2O to tons $N_2O - 0.001$.		
	Activity data: 6120 people (number of employees), 37.6 g/person/year (amount of		
	protein per capita according to UNFCCC reporting), 40 g/person/day (BOD) from		
	the 2006 IPCC Guidelines.		
	Emission factors:		
	EF CH ₄ - 0.18 kgSN4/ kgBPC		
	EF N ₂ O - 0.005 kg N2O-N/kg -N		
	To calculate the amount of emissions in CO ₂ -eq, valuated amount of GHG		
	emissions CH ₄ and N ₂ O are multiplied by the global warming coefficient. For the		
	purposes of this report, the GWP values for methane are 25, and nitrous oxide is		
	298. The emissions of CO_2 and CO_2 are eq. summarized to obtain the total		
	emissions of this subcategory in a calendar year.		
	Emission calculation tool: Excel spreadsheet.		
	Category 6: business trips		
	The Bank keeps records of all business trips of employees for the reporting year in		
	the directions of travel. At the same time the accurate information about the		
	transport used, flight numbers, fuel consumption, etc. is not available.		
	In this regard a distance-based approach was used to calculate emissions from		
	business trips. To obtain information about the distance between the destinations		
	for each business trip, distance in kilometers was determined from online		
	navigation services. The type of vehicle was determined for each segment of the		
	route in km. When choosing the type of vehicle, the Bank's Policy was taken into		

SSDC LLP Verification report				Accre (SSDC-MA	Greenhouse ga ditation certificate no. Legal address: 0 SSDC - N-01, SSDC-PR-01, SSDC-	KZ.V.01.1992 s validation and verificati KZ.V.01.E1491 valid und D. Konayev street 12/1, ro 10000, Astana, RoK F - 04 PR-06, SSDC-PR-07, SSDC-WI	on entity til December 30, 2027 pom 6-03	Page 22 out of 37
				(5556-141	11-01, 55DC-1 R-01, 55DC-	IR-00, 55DC-IR-07, 55DC-WI	-01)	
	account that prefers air tra lack of an airport in the re train, if the distances are s made by car. GHG emissions from each distance and correspondin preliminary was converted <u>Activity data:</u> distance cor file) <u>Emission factors:</u>	avel. If it is im quired directi short and there a type of trans ag emission fa d to miles dur vered by trans	possible to on it was ass e is no railwa sport were ca ctors given l ing the calcu sport (by typ	use air tran sumed that ay commur alculated as below. The ilation (1 k e), km (see	sportation due to the the trip is made by iication the trip is the product of the distance in km m = 0.621371 miles). calculated Excel			
	Type of transport	CO ₂ (kg/unit)	CH ₄ (g/unit)	N ₂ O (g/unit)	unit of measure			
	Car	0.313	0.008	0.007	vehicle-mile			
	Regional train	0.150	0.0117	0.0038	passenger-mile			
	Airplane – short flights (<300 miles)	0.207	0.0064	0.0066	passenger-mile			
	Aircraft – average flights (> = 300 miles, <2300 miles)	0.129	0.0006	0.0041	passenger-mile			
	Airplane $-\log $ flights (> = 2300 miles)	0.163	0.0006	0.0052	passenger-mile			
	Source: GHG Emission F Leadership, 2023 Emission calculation tool: Category 7: employees' t This category includes em emissions assessment was on the distance traveled fr type of vehicle used. In on	actors Hub, E Excel spread travel to site hissions from based on a d from home to w rder to collect	A Center f sheet. and back employees' t istance-base vork in km, this data em	aravel to sit d approach as well as i aployees we	the Climate e and back. The which requires data nformation on the ere surveyed. Based			
	on the results of the surve representing a typical trav	y a representate el profile of t	tive sample he Bank's er	(531 respo nployees. A	nses) was determined After his sample was			

	KZ.V.01.1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04	Page 23 out of 37	
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)		

extrapolated to all employees of the Bank (6120 people). A typical employee travel profile is shown in the table below:				
Type of transport	Average distance (home-work), km		% of u	sage
Car	11.1		61,6	%
Electric transport (tram, trolleybus, metro, electric scooters)	6.7		4.5%	6
Bus	6.6		33.0	%
Walking/cycling	5.5		0.9%	6
\sum for each type of transp this type of transport × of working days per year× km was converted to mi <u>Activity data:</u> average of of the type of transport the <u>Emission factors:</u>	port (total numb one-way home-v emission factor les during the ca ne-way home-w used (see calcula	er of emplo work distance for this type alculation (1 work distance ated Excel fi	yees \times % o ce in km \times 2 e of transpo km = 0.62 e (by type o ile)	f employees using 2 × number of ort. The distance in 1371 miles). of transport), km, %
Type of transport	CO 2 (kg/unit)	CH ₄ (g/unit)	N ₂ O (g/unit)	unit of measure
Car	0.313	0.008	0.007	vehicle-mile
Electric transport (tram, trolleybus, metro, electric scooters)	0.096	0.008	0.0011	passenger-mile
Bus	0.055	0.0063	0.0011	passenger-mile

	KZ.V.01.1992		
	Greenhouse gas validation and verification entity		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)		

	Walking/cycling	0	0	0	passenger-mile		
	Source: GHG Emission E	actors Hub F	PA Center t	or Cornoro	te Climate		
	Leadershin 2023	aciors 1140, 12	in center j	or corpora	ie enmaie		
	Emission calculation tool:	Excel spread	sheet				
	Catagory 8: property log	<u></u>	nor sogmor	.+			
	Emissions from this catag	orv include st	per segmen	u I mobile fu	compustion		
	consumption of electric ar	of y filefulle st	ationaly and		litioning at the		
	Papir's lagged facilities		ngy, as well	as an conc	introlling at the		
	En anon huming of fuel						
	Energy burning of fuel.	(facilities)					
	At the and of 2022 4 units	of aquimmant		motural as	ware in an antion of		
	At the end of 2022 4 units	Dania Ta al	consuming	natural gas	were in operation at		
	the leased facilities of the				rom fuel combustion		
	at the location of stationar	y facilities, Le		inects infor	manon		
	independently from landlo	ords. when us	ing conserve	ative appro	ach an approach is		
	used where the entire volu	ime of purcha	sed fuel is c	onsidered c	onsumed during the		
	calendar year it was purch	ased.					
	Activity data:	3					
	Natural gas - 29,391.29 m						
	Emission factors:						
	EF (natural gas): $CO_2 - 56$	5.1 t/TJ, CH_4 -	0.001 t/TJ,	$N_2 O - 0.00$)01 t/TJ		
	Indicators from volumetrie	c to mass, and	then to an e	energy equi	valent, were		
	converted in a similar way	to the approa	ich describe	d for emiss	ions from energy		
	combustion scope 1.						
	Emission calculation tool:	Excel spread	sheet.				
	Mobile sources (leased pr	operties)					
	The calculation of GHG e	missions of th	is subcatego	ory include	s two groups of		
	mobile sources, namely:						
	 vehicles that are 	used by the l	Bank on the	terms of a	long-term/short-term		
	lease (a contract	for the provis	sion of trans	port servic	es);		
	 Yandex taxi for 	official purpo	ses of empl	oyees.			
	According to these groups	of vehicles n	o records of	fuel used a	or distance in		
	According to mese groups	or venicies n	o records of	Tuel used (n uistance m		

	KZ.V.01.1992	entity
SSDC LLP	Accreditation certificate no. KZ.V.01.E1491 valid until Legal address: D. Konayev street 12/1, rooi 010000 Astana RoK	December 30, 2027 m 6-03
Verification report	SSDC - F - 04 (SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01	Page 25 out of 37
kilometers are kept. In this based method. For this pur Bank for vehicle rental ser Emission factors per unit on net gross value added by G the reporting of the RoK in to the type of economic act "49 Classification of Produ- transport services and pipe GHG emissions were calcu emission factor in tons of G Activity data: the cost of red Emission factors: 	s regard GHG emissions were estimated using a cost- pose data were collected on the total expenses of the vices for the reporting year (thousands of tenge). of economic value was calculated by dividing the value of HG emissions of these types of transport according to in the UNFCCC. Net gross value added is taken according tivity which includes passenger transportation services – ucts by Activity of Civil Code of RoK 04-2008 land eline transportation". ulated as the product of costs in thousands of tenge by the GHG/thousand tenge. enting vehicles and taxi services in thousands of tenge housand tenge thousand tenge thousand tenge thousand tenge thousand tenge thousand tenge titic and thermal energy by leased facilities trite and thermal energy is included in the fixed cost of pecifying the amount of its actual consumption according cilities that are leased from the Bank and managed by the l estate. Thus, at the time of preparation of this GHG facilities, it is impossible to determine the actual volume sumption. In view of the above, an approach is used to issisons associated with the consumption of purchased rage value of energy consumption (kW*h, Gcal) per unit wned by the Bank multiplied by a known value of the f leased premises. m. (area of leased facilities). extrice energy: kW*h H _d / kW*h	

	SSDC LLP		Greenhouse gas Accreditation certificate no. Legal address: I 0	KZ.V.01.1992 svalidation and verification KZ.V.01.E1491 valid unt D. Konayev street 12/1, ro 10000, Astana, RoK	on entity il December 30, 2027 om 6-03	
	Verification report		SSDC - F (SSDC-MAN-01, SSDC-PR-01, SSDC-F	e ⁻ - 04 PR-06, SSDC-PR-07, SSDC-WI-	-01)	Page 26 out of 37
14	The methodology for calculating	EF N ₂ 0 – 0.00000001 t N ₂ 0/kW <i>EF in the production of heat end</i> EF CO ₂ – 0.358 t CO ₂ / Gcal EF CH ₄ – 0.000005 t CH ₄ / Gcal EF N ₂ 0 – 0.000005 t N ₂ 0/ Gcal <u>Emission calculation tool:</u> Exce <i>HFC emissions from air conditi</i> <i>Stationary air conditioning syste</i> The approach is used to calculate for the Bank's own facilities. <u>Activity data:</u> the area of air-con amount of refrigerant for coolin <u>Emission factors:</u> EF: 10% of the charge <u>Emission calculation tool:</u> Exce <i>Mobile</i> air conditioning systems The approach is used to calculate for the Bank's own vehicles. <u>Activity data:</u> 67 units (number air conditioner is 1 kg. <u>Emission factors:</u> EF: 20% of the charge <u>Emission calculation tool:</u> Exce Not applicable	*h ergy: I spreadsheet. tioning systems of leased facilities: ems te HFC emissions for leased facilities is the same additioned buildings for rent is 18,568.12 sq.m. The g 1 sq.m is 0.03 kg. I spreadsheet. t: e an HFC emission for leased vehicles is the same of vehicles leased). The initial charge of one mobile I spreadsheet.	-	-	OK
	GHG emissions out of GHG Protocol as well as references to the used calculation tools that differ from those proposed by GHG Protocol.					
15	Information on applicable exceptions for certain sources of GHG emissions for facilities or	Calculations of HFC emissions only operation stage as the Banl equipment which would allow e	from air conditioning systems take into account c does not keep full records of new and written-off stimating emissions during the initial filling	-	-	ОК

SSDC LLP Verification report			KZ.V.01.1992 KZ.V.01.1992 Greenhouse gas validation and verification entity Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027 Legal address: D. Konayev street 12/1, room 6-03 010000, Astana, RoK SSDC - F - 04 Page 27 out of 37				
	certain types of activities	procedure of air conditioners an Emissions calculations of Scope services" include the emission a were not assessed for the rest pr emission factors for all types of	d the end of their service life. 3 "Category 1: Procurement of produc fter using of office paper only. GHG en ocurement categories due to insufficien goods, works and services purchased b	ts and nissions it data on y the Bank.			
16	Information about the organization's objects that are included in the organization's boundaries	The list of the Bank's facilities (as of 31/12/2022) is given in A	included in the organizational reporting nnex 1	g boundaries -		-	OK
17	Give an organizational chart that explains the relationship between organization and parent company, as well as between parent company and subsidiaries in case if the parent company of the organization providing this GHG emissions report does not report GHG emissions.	Not applicable		-		-	ОК
18	Information on specific indicators of GHG emissions	In the banking sector, the most of GHG emissions per full-time en square meter of occupied area. The corresponding specific india (i) 34115.4 t CO2-eq. / 6120 em (ii) 34115.4 t CO2-eq. / 140,766	common specific indicators are: (i) the a polyge and (ii) the amount of GHG employee and (ii) the Bank in 2022 were: ployee = $5.57 \text{ t CO2-eq./employee}$ 5.25 sq.m. = 0.24 t CO2-eq./sq.m.	amount of iissions per supp on the review the of	08 Give porting documents he number of loyees, as well as occupied area for ew at the site of company	Provided by	OK
19	Reliable data on the volume of GHG emissions of Category 3, that is possible to obtain.	Not applicable			<u> </u>		ОК
20	Disaggregation of data on GHG emissions if detailing allows to increase the transparency of reporting. The details are given at the level of	According to the report: Details about GHG emissions Scope 1: Direct emissions from organization's controlled/prop	by groups of emission sources n the t CO ₂ -eq. rietary	-		-	ОК

	KZ.V.01.1992			
	Greenhouse gas validation and verification entity			
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027			
	Legal address: D. Konayev street 12/1, room 6-03			
SSDC LLP	010000, Astana, RoK			
Verification report	SSDC - F - 04	Page 28 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)	-		

individual industrial facilities and	operations			
business units at the country level by	a. Direct emissions from stationary fuel	542.279		
groups of emission sources (stationary	combustion			
processes, leaks, etc.), as well as at the	b. Direct emissions from mobile sources	691.255		
level of activities (production of	of fuel combustion			
electric energy, transmission of	c. Direct emissions from industrial	not applicable		
electricity, purchase of electricity for	processes			
subsequent resale to end consumers,	d Direct emissions from leaks	521 997		
cit.).	d. Direct chilissions from leaks	521.997		
	e. Direct emissions from agricultural	not applicable		
	activities			
	Scope 2: Indirect emissions related to			
	purchased electricity, thermal energy,			
	a. Indirect GHG emissions in the result	13.919.993		
	of obtaining electrical power			
	b. Indirect GHG emissions in the result	not applicable		
	of obtaining steam	not applicable		
	c Indirect GHG emissions in the result	6311 323		
	of obtaining thermal energy	0311.323		
	d Indiract CHC amissions in the result	not applicable		
	of obtaining cooling process	not applicable		
	Saana 2. which are not are duood by the			
	Bank itself and are not the result of the			
	activities of assets owned or controlled by			
	it			
	a. Purchases of products and services.	215.336		

	KZ.V. 01. 1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP 010000, Astana, RoK			
Verification report	SSDC - F - 04	Page 29 out of 37	
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)		

		b. Fixed assets.	-			
		c. Fuel and energy related activities (not included in categories 1 or 2).	-			
		d. Transportation and distribution in the upper segment .	-			
		e. Waste generated during the organization's activities	2473.299			
		f. Business trips.	372.840			
		g. Employees' travel to site and back	4328.824			
		h. Property leased in the upper segment	4738.254			
		i. Transportation and distribution in the lower segment .	-			
		j. Processing of sold products.	-			
		k. The use of sold products.	-			
		1. The end of the service life of the sold products.	-			
		m. Property leased in the lower segment	-			
		n. Franchises.	-			
		o. Investment	-			
21	Detailing information on GHG	Not applicable		-	-	ОК
	industrial facilities (it is					
	recommended to include					
	information on industrial facilities					

	KZ.V.01.1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP 010000, Astana, RoK			
Verification report	SSDC - F - 04	Page 30 out of 37	
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)		

	with emissions of more than 10.000				
	tons of CO2-eq from stationary				
	fuel combustion)				
22	Detailing information on GHG	Not applicable	-	-	OK
	emissions by individual countries				
	where the organization operates				
23	GHG emissions associated with its	Not applicable	-	-	OK
	own production of electricity,				
	thermal energy and steam, which is				
	transferred or sold to another				
	organization.				
24	Production-oriented GHG	Not applicable	-	-	OK
	emissions of electricity, thermal				
	energy and steam, which are				
	purchased for the purpose of resale				
	to intermediary organizations				
25	Description of specific emission	Not applicable	-	-	OK
	indicators in regard to the internal				
	or external values of specific				
	indicators per unit of				
	production/volume of service.				
26	Emissions of GHG types that are	Not applicable	-	-	OK
	not regulated by Kyoto Protocol				
	(for example, CFCs, NOx,),				
	information that given separately				
	from the volume of emissions by				
	Category.				
27	Information about relative	In the banking sector, the most common specific indicators are: (i) the amount of	-	-	OK
	indicators specific to the	GHG emissions per full-time employee and (ii) the amount of GHG emissions per			
	organization (for example,	square meter of occupied area.			
	emissions per kWh of electricity	The corresponding specific indicators for the Bank in 2022 were:			
	produced, ton of products	(i) 34115.4 t CO2-eq. / 6120 employee = 5.57 t CO2-eq./employee			
	produced or sales volume).	(ii) 34115.4 t CO2-eq. / 140,766.25 sq.m. = 0.24 t CO2-eq./sq.m.			

	KZ.V.01.1992			
	Greenhouse gas validation and verification entity			
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027			
	Legal address: D. Konayev street 12/1, room 6-03			
SSDC LLP	010000, Astana, RoK			
Verification report	SSDC - F - 04	Page 31 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)			

28	Information about the organization's	Not applicable	-	-	OK
	strategies or programs to reduce or				
	manage GHG emissions.				
29	Information about any provisions of	Not applicable	-	-	OK
	the agreements that take into account				
	the risks and obligations associated				
	with GHG emissions.				
30	Information on the assurances		-	-	OK
	issued by external organizations				
	regarding the reporting data on				
	GHG emissions, including copies of				
	the verification report.				-
31	Information about events that led	Not applicable	-	-	OK
	to reduction in GHG emissions but				
	not sufficient to recalculate base				
	year emissions (for example,				
	changes in production processes,				
	increased energy efficiency, closure				
22	of production facilities)	2020 15250			OV
32	Information on GHG emissions for	2020: 15358 tons of CO2-eq	-	-	OK
	all years from the base year and up	2021: 20304.5 f CO2-eq			
	to the current reporting year	2022: 54115.4 t CO2-eq			
	(including descriptions of events that lad to the received stien of the				
	has year emissions)				
33	Information on the quality of data for	At the time of this report there is a need to systematize the collection of basic data			OK
55	the preparation of a GHG emissions	sets and their accuracy required for preparation of GHG emissions report. Thus at			OK
	report (for example, information on	the time of this report all data for real estate objects were used, which include			
	the factors and magnitude of such	objects decommissioned at the end of 2022 because GHG were produced by all			
	factors that affect the uncertainty	objects. However it affects the accuracy of calculations when using the area of			
	indicator in estimating GHG	objects since the accurate information about the time of their decommission was			

	K7 V 01 1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04 Page 32 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)		

	emissions, as well as on organization	not provided.			
	policies aimed at improving the data	According to the data provided by the Bank on business trips there is information			
	quality)	about the direction of travel of each seconded employee but there was no			
		information about the type of transport used which complicates the process of			
		calculating GHG emissions.			
34	Information on measures aimed at	not applicable	-	-	OK
	capturing GHG emissions				
35	Information about transactions	Not applicable	-	-	OK
	with carbon credits (offsets)				
36	Information about generated	Not applicable	-	-	OK
	carbon credits within the				
	organization's boundary that have				
	been transferred/sold to third				
	parties.				

Answering the corrective action requests (CAR) and requests for clarification (RF).

CAR and RF given by accredited independent entity.	The question number in Table 1	Response of the unit operator to the request	Conclusion of an accredited independent entity
ZR-01 Give the charter of the organization	2	Provided by	ОК
ZR-02 Give the approved organizational structure of the Bank	2	Provided by	OK
ZR-03 Give supporting documents on the volume of fuel used from stationary sources Scope 1 for review at the site of the company	13	The certificate on the consumption of fuel and energy resources by own offices and vehicles of Jusan Bank JSC, the	OK

	KZ V 01 1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04 Page 33 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)	-	

CAR and RF given by accredited independent entity.	The question number in Table 1	Response of the unit operator to the request	Conclusion of an accredited independent entity
		amount of equipment, occupied area, the number of branches owned and leased in 2022 is given and signed by the Director of the administrative Department	
ZR-04 Give supporting documents on the volume of fuel used by mobile sources Scope 1 for review at the site of the company	13	The certificate on the consumption of fuel and energy resources by own offices and vehicles of Jusan Bank JSC, the amount of equipment, occupied area, the number of branches owned and leased in 2022 is given and signed by the Director of the administrative Department	OK
ZR-05 Existence of supporting data on the number of business trips of employees, their directions	13	Accounting and HR department data are provided on the number of business trips	ОК
ZR-06 Existence of supporting documents on the amount of heat consumed Scope 2 and 3	13	The certificate on the consumption of fuel and energy resources by own offices and vehicles of Jusan Bank JSC, the amount of equipment, occupied area, the number of branches owned and leased in 2022 is given and signed by the Director of the administrative Department	ОК
ZR-07 Existence of supporting documents on the amount	13	The certificate on the consumption of	OK

	KZ.V.01.1992		
	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 valid until December 30, 2027		
	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04 Page 34 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-PR-07, SSDC-WI-01)		

CAR and RF given by accredited independent entity.	The question number in Table 1	Response of the unit operator to the request	Conclusion of an accredited independent entity
of consumed electric energy Scope 2 and 3		fuel and energy resources by own offices	
		amount of equipment, occupied area, the	
		number of branches owned and leased in	
		2022 is given and signed by the Director	
		of the administrative Department	
ZR-08 Give supporting documents on the number of	18	The data of the company's HR	ОК
employees, as well as the occupied area for review at		department is given	
the site of the company			

	Greenhouse gas validation and verification entity		
	Legal address: D. Konavev street	12/1, room 6-03	
SSDC LLP	010000, Astana, RoK		
Verification report	SSDC - F - 04 Page 35 out of 37		
	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC- PR-07, SSDC-WI-01)		

SSDC-F-06 Verification and/or Validation Visit Plan

Lead verifier: Aida Maksut Verification Group: Aida Maksut - lead verifier

Date: 23/02/2	2023 (Day 1)	Representatives of the Client	Verifiers
09.00-09.15	The meeting that opens the verification: presentation of the SSDC LLP group and the persons responsible for reporting on the part of the Customer. Questions for discussion: 1. Presentation of the verification process: - main goals and objectives; - evaluation criteria, methods; - scope of verification; - form of expected results and conclusions. 2. Representation of responsible persons for reporting on the part of Customer. 3. An overview of the main technological processes that are sources of GHG emissions.	Karlygash Kuandykkyzy Gulzat Mukanova	A. Maksut
9.15-10.15	Audit of the data of the established boundaries in the report for 2022.		A. Maksut
10.15-12.00	Audit of primary data on Category 1 emissions for 2022	Gulzat Mukanova	A. Maksut
12.00-13.00	Interview with persons responsible for collection of Category 1 primary data.	Gulzat Mukanova	A. Maksut
13.00-14.00	Lunch		A. Maksut
14.00-14.15	Discussions on defining the limits of Category 2 emissions for 2022	Gulzat Mukanova	A. Maksut
14.15-15.00	Audit of primary data on Category 2 emissions for 2022	Gulzat Mukanova	A. Maksut
15.00-15.15	Discussions on defining the limits of Category 3 emissions for 2022	Karlygash Kuandykkyzy Gulzat Mukanova	A. Maksut
15.15-16.00	Audit of primary data on Category 3 emissions for 2022	Karlygash Kuandykkyzy Gulzat Mukanova	A. Maksut

	KZ.V.01.1992			
	Greenhouse gas validation and ve	Greenhouse gas validation and verification entity		
	Accreditation certificate no. KZ.V.01.E1491 va	alid until December 30, 2027		
	Legal address: D. Konayev street	Legal address: D. Konayev street 12/1, room 6-03		
SSDC LLP	010000, Astana, Ro	010000, Astana, RoK		
Verification report	SSDC - F - 04	Page 36 out of 37		
-	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-	(SSDC-MAN-01, SSDC-PR-01, SSDC-PR-06, SSDC-		
	PR-07, SSDC-WI-01)	PR-07, SSDC-WI-01)		

16.00-17.00	Interview with persons responsible for GHG emissions report	Gulzat Mukanova	A. Maksut
17.00-17.15	Final meeting on the results of the verification	Karlygash Kuandykkyzy Gulzat Mukanova	A. Maksut



SSDC-F-03 LIST OF DOCUMENTATION RECEIVED FROM THE CLIENT

List of documentation

Information required and received for Stage 1:

Greenhouse Gas Emissions Report 2022

Information received and required during Stage 2:

Charter of First Heartland Jusan Bank JSC dated December 12, 2022

Annex 1 to the Protocol on changes to the organizational structure of Jusan Bank JSC dated 31/12/2022

The certificate on the consumption of fuel and energy resources by own offices and vehicles of Jusan Bank JSC, the amount of equipment, occupied area, the number of branches owned and leased in 2022 is given and signed by the Director of the administrative Department

Calculation of GHG emissions for 2022

"User's Manual to calculating energy system emission factors and using them to estimate GHG emission reductions in Kazakhstan" UNDP in Kazakhstan

"On approval of the list of benchmarks in regulated sectors of the economy" Order No. 260 of the Acting Minister of Ecology, Geology and Natural Resources of the Republic of Kazakhstan dated July 19, 2021

Letter from First Heartland Jusan Bank JSC, ref.no. 26/05-26805-23 dd. 06/12/2023 Letter from First Heartland Jusan Bank JSC, ref.no. 26/05-27325-23 dd. 11/12/2023