

VERIFICATION REPORT

Mramorak 1&2 Bundled Biogas Power Plants

BCR-RS-493-1-001

Conformity Assessment Body |



BCR Verification report template Version 1.2

January 2024



VERIFICATION REPORT PROJECT ID

Mramorak 1&2 Bundled Biogas Power Plants	Mramorak 1&2 Bundled Biogas Power Plants		
Project ID	BCR-RS-493-1-001		
Project holder	Zlatar Mramorak Doo		
	Project Type:		
	⊠ Energy		
	⊠ Waste		
Project Type/Project	Project Activity:		
activity	□ Solar Energy		
	□ Wind Energy		
	⊠ Biomass Energy		
	□ Hydraulic Power		
	□ Yes		
Groupea project	⊠ No		
Version number and	Ver. 1.5		
Document to which this report applies	24/08/2023		
	AMS-III.AO Version 1.0		
Applied methodology	AMS-I.D. Version 18.0		



Project location	Serbia, Belgrade		
Project starting date	24/06/2020		
Quantification period of GHG emissions reductions/removals	06/24/2020 to 06/23/2027		
Monitoring period	24/06/2020 to 31/12/2023		
Total amount of GHG emission reductions/removals	75,655 tCO2		
Contribution to Sustainable Development Goals	SDG Goal 7 Affordable and Clean Energy SDG Goal 8 Decent Work and Economic Growth SDG Goal 13 Climate Action		
Special category, related to co-benefits	N/A		
Document date	22/11/2024		
Work carried out by	Mr. Rohit Badaya- Team Leader Ms. Selen Cilasun- V/V Trainee Mr. Dragomir Vasic- Regional Expert Mr. Abdulkadir Bektaş - Agriculture Expert		



	Mr. Sandeep Kanda	
	Technical Reviewer	
Approved by	Handa	
	22/11/2024	



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1 Executive summary

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. was appointed by "Zlatar Mramorak Doo" to perform the verification of the BCR project activity titled "Mramorak 1&2 Bundled Biogas Power Plants" in "Serbia, Belgrade" through a contract, dated 29/11/23.

In particular;

- the project's baseline and monitoring plan was assessed against "AMS-III.AO Methane recovery through controlled anaerobic digestion, Version 1.0. and AMS-I.D. Grid connected renewable electricity generation, Version 18.0."
- the project's additionality justification was assessed against "Tool 21: Demonstration of additionality of small-scale project activities, Version 13.1.14, Tool 01: Tool for the demonstration and assessment of additionality, Version 7.0.0.15 and Tool 27: Investment Analysis Version 12.0"
- the project's compliance with the requirements of Article 12 of the Kyoto Protocol, the CDM Modalities and Procedures, as agreed in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other relevant rules, including the Host Country's legislation and sustainability criteria.
- CDM Validation and Verification Standard for project activities version 3.0
- CDM Project Standard for Project Activities version 3.0
- BCR Standard Version 3.3

Verification is a requirement for all BCR projects and is seen as necessary to provide assurance to stakeholders of the quality of the project and its intended generation of verified Carbon Credits (VCCs).

The scope of the verification is the independent and objective review of the BCR Monitoring Report Template (MR). The purpose of the verification is its usage during the registration process as part of the BCR project cycle. Therefore, Re Carbon Ltd. cannot be held liable by any party for decisions made or not made based on the verification opinion that goes beyond that purpose.

Re Carbon Ltd. also confirms the following based on the results of the document review for the monitoring period between 06/24/2020 to 31/12/2023:



Year	GHG emission reductions in the baseline scenario (tCO2e)	GHG emission reductions in the project scenario (tCO _{2e})	GHG emissions attributable to leakages (tCO _{2e})	Estimated Net GHG Reduction (tCO2e)
24/06/2020- 31/12/2020	6,102	1,191	0	4,911
01/01/2021- 31/12/2021	26,758	3,975	0	22,783
01/01/2022- 31/12/2022	28,502	4,558	0	23,943
01/01/2023- 31/12/2023	28,628	4,610	0	24,018
Total	89,990	14,344	0	75,655

During the verification 38 Corrective Action Requests, o7 Clarification Requests were raised, all of which were closed out before the issuance of this verification report. No Forward Action Request was raised during the verification to be addressed during the initial verification of the proposed project activity.

In summary, it is Re Carbon Ltd.'s opinion that the project activity "Mramorak 1&2 Bundled Biogas Power Plants" in "Serbia, Belgrade", as described in the BCR-MR, version 1.4 dated 24/07/2024 meets all relevant UNFCCC requirements for the CDM, BCR and all relevant host Party criteria and correctly applies the baseline and monitoring methodologies "AMS-III.AO Version 1.0 and AMS-I.D. Version 18.0". Hence, Re Carbon Ltd. requests the verification of the project activity as a BCR project activity.



2 Objective, scope and verification criteria

Through a contract, dated 29/11/2023. Re Carbon Ltd. was appointed by "Zlatar Mramorak Doo" to perform the 1st verification of the "Mramorak 1&2 Bundled Biogas Power Plants". The objective of this verification activity was to assess, with objective evidence:

- if the monitoring report dated "24/07/2024" conforms with the requirements of the monitoring plan of the registered Project Description (PD) and the approved methodology
- if the project activity conforms with the monitoring report and the registered PD, and
- if the data reported in the monitoring report are complete and transparent.

The scope of the verification is the independent and objective review of the monitored GHG reductions. The verification activity is based on the validated and registered PD version 1.5 dated, 24/08/2023.

The project activity and the monitoring report are assessed against the requirements of Article 12 of the Kyoto Protocol, CDM Modalities and Procedures as agreed upon in the Marrakech Accords under decision 3/CMP.1, the annexes to this decision, "AMS-III.AO Version 1.0 and AMS-I.D. Version 18.0", subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, all according to the guidance given in the CDM Validation and Verification Standard for Project Activities version 3.0, CDM Project Standard for Project Activities version 3.3.

The only purpose of the verification and certification is its usage during the issuance process as a part of the BCR project cycle. Therefore, Re Carbon Ltd. cannot be held liable by any party for decisions made or not made based on the verification and certification opinion, which will go beyond that purpose.



3 Verification planning

3.1 Verification plan

The Verification TL developed a verification assessment plan that describes verification activities and schedules. The verification assessment plan is revised as necessary during the verification.

The verification assessment plan is prepared using "Assessment Planning Form" and addresses the following:

- the scope and objectives;
- identification of the verification team and their roles on the team;
- client/responsible party contact;
- schedule of verification activities;
- level of assurance;
- verification criteria;
- materiality;
- schedule for site visits.

The Verification TL communicated the verification assessment plan to the responsible party and ensured that the relevant responsible party's personnel were notified prior to the beginning of the site visit on o6/02/2024 and 07/02/2024.

The Verification TL informs the client of the names and roles of the team members with sufficient notice for any objection to the appointment of a team member to be made.

As a result of the planning and performance of the verification activities please find below the actual verification timeframe:

The verification timeframe is given in detail in Table 3-5 below:

Table 3-1: Verification Timeframe



Achivity	Time	Total Days	
ACIIVITY	From	То	
Desk Review	2.02.2024	14.05.2024	103
Review of the MR version 01	2.02.2024	27.02.2024	26
Site Visit	6.02.2024	7.02.2024	2
Issuance of the Verification Protocol version 01	10.02.2024	27.02.2024	18
Review of PDs Initial Set of Responses	27.02.2024	1.03.2024	4
Issuance of the Verification Protocol version 02	20.03.2024	4.04.2024	16
Review of PDs Second Loop Responses	4.04.2024	5.04.2024	2
Closing of all the CARs and CLs	30.04.2024	8.05.2024	9
Issuance of the Verification Report version 01	8.05.2024	15.07.2024	69
ITR Process	15.07.2024	26.08.2024	43
Issuance of the Verification Report version 02	18.07.2024	17.11.2024	123
Submission for Final Approval	18.11.2024	22.11.2024	5
Submission to the PD	22.11.2024	22.11.2024	1

Information or clarifications provided as a response to a CAR, CL or FAR could also lead to a new request. This can also be seen transparently in the Validation Protocol provided in Annex 1 of this Validation Report.



3.2 Verification team.

The appointment process of the verification team considers the technical area(s), sectoral scope(s), and relevant host country experience required amongst team members for the accurate and thorough assessment of the project design. The relevant BCR verification and previous ITR experiences are also assessed during the selection of the team members and the Independent Technical Reviewer (ITR), respectively. The verification team and ITR were assigned to this verification activity on 10/11/2023, taking all the above factors into consideration and as a result of the contract review process.

Name	Role	Host Country Experienc e	Scope Coverage	Technical Expertise	Involvement*
Mr. Rohit Badaya	Team Leader			\square	A, DR, RA, R
Ms. Selen Cilasun	Trainee Verifier			\boxtimes	A, DR, SV, R
Mr. Dragomir Vasic	Regional Expert			\boxtimes	A, DR,SV,R
Mr. Abdulkadir Bektaş	Agriculture Expert				A, DR, R
Mr. Sandeep Kanda	ITR		\square	\square	ITR

* Explanations for the abbreviations used for involvement types are as follows:

- A : Administrative
- DR : Desk Review
- SV : Site Visit
- RA : Remote Assessment¹



R : Reporting

ITR : Independent Technical Review

How the team meets the compliance required for the verification and lists the documentation that supports the competencies of the verification team needed for the BCR Validation and Verification Manual is given in Annex 1.



3.3 Level of assurance and materiality

Re Carbon Ltd. hereby confirms that the reasonableness of assumptions of this verification report is reasonable, with respect to material errors, omissions and misrepresentations. To guarantee this reasonableness of assumptions all data that is used in the GHG emission reduction calculations have been reviewed without any sampling



3.4 Sampling plan

No sampling approach is used for this verification process.



4 Verification procedures and means

4.1 Preliminary assessment

As part of this preliminary assessment, the verification team requested the project holder for sufficient information to determine the purpose and scope of the verification considering the following:

- if the GHG project corresponds to a type of project eligible for the Certification Program (conformity with applicable verification criteria, including the principles and requirements of BCR STANDARD in the scope of verification),
- if the GHG project applies a methodology eligible under the requirements of the Certification program (The GHG Project baseline is consistent with the methodology applied, as appropriate),
- if the monitoring plan complies with the methodology applied by the GHG project (The quantification of mitigation results against the validated baseline shall follow the provisions of the used methodology, as appropriate),
- if the determination of the baseline considers the considerations provided by the BIOCARBON REGISTRY Program and by existing sectoral and national regulations.

The scope of the verification is the independent and objective review of the BCR Monitoring Report Template (MR). The BCR-MR is reviewed against the relevant criteria (see section 2) and decisions by the BCR Organization, including the approved baseline and monitoring methodology. The verification was based on the guidance given in the CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0, and BCR Standard version 3.3.

The verification team has employed a risk-based approach to assess the completeness and accuracy of the claims and the conservativeness of the assumptions in the BCR-MR. The focus of the verification team is to identify significant risks for the project implementation and the generation of VCCs. The verification is not meant to provide any consulting to the project participants. However, stated requests for clarifications and/or corrective actions may have provided input for improvement of the project design.



The only purpose of the verification is its usage during the registration process as part of the BCR project cycle. Therefore, Re Carbon Ltd. cannot be held liable by any party for decisions made or not made based on the verification opinion that goes beyond that purpose.

4.2 Document review

The report is based on the assessment of the BCR-MR/1.4, 24/07/2024/ undertaken through stakeholder consultations, application of standard auditing techniques including but not limited to desk review, follow-up actions (e.g., on-site visit, electronic (telephone or e-mail) interviews) and also the review of the applicable approved methodological and relevant tools, guidance and BCR decisions. Additionally, the cross-checks were performed for information provided in the BCR-MR using information from sources other than the verification sources, the verification team's sectoral or local expertise and, if necessary, independent background investigations

All the documents used for arriving verification conclusion are listed in Annex 3, and referenced accordingly in the verification report.

4.3 Interviews

During the verification period, follow-up interviews were performed by the verification team to further analyze the correctness and accurateness of the information provided.

The list of individuals who were interviewed during the verification site visit, executed on $\frac{06}{02}$ and $\frac{07}{02}$ and $\frac{07}{02}$ is given in the Table below.

Reference Number	Means of Interview ²	Full Name	Title	Organization
Ioı	SV	Vasilic Kostic	Villager	Mramorak Village
lo2	SV	Miroslav Kegevic	Villager	Mramorak Village

² SV: Site visit; T: Telephone; E: E-mail; RA: Remote Assessment



Reference Number	Means of Interview ²	Full Name	Title	Organization	
lo3	SV	İncigül Erdoğan	Carbon Consultant	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	
lo4	SV	Nikola Stankovic	Manager of Biogas	Zlatar Mramorak Doo	
Io5	SV	Dusan Dobrikovic	Director of Biogas	Zlatar Mramorak Doo	
Io6	SV	Ersöz Erdoğan	Carbon Consultant	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	
Io7	SV	Milan Mitrovic	General Manager	Zlatar Mramorak Doo	
Io8	SV	Petrov Filip	Operator	Zlatar Mramorak Doo	
Io9	SV	Zoran Tancic	Director	Beotok	
lio	SV	Kristina Petrov Barus	Personel	Beotok	
In	SV	Milos Stanisavliovic	Manager of farm	Stari Tamis Farm	
l12	SV	Pavlica Alexandra	Headman of Mramorak	Mramorak Village	

4.4 On-site visit

As a part of the verification activities a physical site visit was executed to the project activity's location, details of which can be seen in the Table below:

Site visit details

Date	06/02/2024 and 07/02/2024
Location	Serbia, Belgrade



Participant	Company Name		Role in the Organization / Role in the Site Visit
Dragomir Vasic	Re-ca	rbon ltd.	Local expert
Vasilic Kostic	Mramo	rak Village	Villager
Miroslav Kegevic	Mramo	rak Village	Villager
İncigül Erdoğan	Kilittaşı N Müşavirli Lte	Aühendislik k İnşaat Tic. d. Şti	Carbon Consultant
Nikola Stankovic	Zlatar Mr	amorak Doo	Manager of Biogas
Dusan Dobrikovic	Zlatar Mr	amorak Doo	Director of Biogas
Ersöz Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti		Carbon Consultant
Milan Mitrovic	Zlatar Mramorak Doo		General Manager
Petrov Filip	Zlatar Mramorak Doo		Operator
Zoran Tancic	Beotok		Director
Kristina Petrov Barus	Ве	otok	Personel
Milos Stanisavliovic	Stari Ta	imis Farm	Manager of farm
Pavlica Alexandra	Mramo	rak Village	Headman of Mramorak
Selen Cilasun	Re-ca	rbon ltd.	Trainee Verifier
Rohit Badaya	Re-ca	rbon ltd.	Team Leader (Remote)
Points Verified		Source of Information	
Implementation and operation of the proposed BCR project activity as per the registered PD		Document re interviews wit from Mramora	eview, on-site visit and th the local stakeholders k Village
Review of information flows for generating, aggregating, and reporting the monitoring parameters		Document re interviews wit from Mramora	eview, on-site visit and th the local stakeholders ik Village



Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the PD	Interviews with the local stakeholders from Mramorak Village
Cross-check between information provided in the monitoring report and data from other sources such as plant logbooks, inventories, purchase records or similar data sources	Document review and on-site visit
Check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the PD and the selected methodology	Document review, on-site visit and interviews with the local stakeholders from Mramorak Village
Review of calculations and assumptions made in determining the GHG data and emission reductions	Document review
Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters	Document review and interviews with the local stakeholders from Mramorak Village

4.5 Clarification, corrective and forward actions request

The verification of this BCR project activity includes the following steps:

- Assessment of the conformity of the actual project activity and its operation with the registered PD, dated 24/08/2023 version "1.5".
- A <u>physical</u> site visit was executed on o6/o2/2024 and o7/o2/2024 in order to assess whether all physical features of the project activity proposed in the registered PD are in place and that the Project proponent(s) operated the project activity in line with the registered PD.



- Assessment of the compliance of the monitoring plan with the monitoring methodology "AMS-III.AO Version 1.0 and AMS-I.D. Version 18.0"
- Assessment of compliance of monitoring with the monitoring plan
- Assessment of data and calculation of greenhouse gas emission reductions
- Issuance of the verification report
- Independent technical review
- Approval of the verification report and request for issuance

During the verification process, a Verification Protocol was used to submit the findings to the Project proponent(s).

In line with Re Carbon Ltd.'s internal terminology and BCR Standard version 3.3, the team reports the non-conformities in the forms of Corrective Action Requests (CARs), Clarification Requests (CLs) and Forward Action Requests (FARs). When and for which type of non-conformities CARs, CLs and FARs are issued is explained below:

The verification team raises a **CAR** if one of the following occurs:

- Non-conformities with the monitoring plan or methodology are found in the monitoring and reporting, or if the evidence provided to prove conformity is insufficient.
- Mistakes have been made in applying assumptions, data or calculations of emission reductions that will impair the estimate of emission reductions.
- Issues identified in a FAR during verification to be verified during verification have not been resolved by the Project proponents.

The verification team raises a **CL** if information is insufficient, not transparent or not clear enough to determine whether the applicable BCR requirements have been met.

The verification team raises a **FAR** during verification for actions where the monitoring and reporting require attention and/or adjustment for the next verification period.

According to these principles, a total of 39 CARs, o7 CLs and oo FARs were issued, all of which are listed in the Verification Protocol.



The appointment process of the verification team considers the technical area(s), sectoral scope(s), and relevant host country experience, required amongst team members for the verification of the emission reductions, achieved by the project activity in the relevant monitoring period for this verification. The relevant BCR verification and previous ITR experiences are also assessed during the selection of the team members and the Independent Technical Reviewer (ITR), respectively. The verification team and ITR were assigned to this verification activity on 10/11/2023, considering all the above factors, and as a result of the contract review process.

4.5.1 Clarification requests (CLs)

Raised clarifications mainly about the missing information and typo errors, not working reference links, all clarifications have been responded. According to principles, a total of 07 CLs were raised all of which are listed in the Annex 2.

4.5.2 Corrective action requests (CARs)

The findings related to missing supporting documentation, parameters without clear information and changes made. All resolved. According to these principles, a total of 38 CARs were raised all of which are listed in the Annex 2.

4.5.3 Forward action request (FARs)

N/A (There is no FAR raised about the project)

In Annex 2, below, provide a summary of any CLs, CARs and FARs raised, including the response provided by the project holder, any resulting changes to the project documents and, the final conclusion.

According to these principles, a total of oo FARs were raised all of which are listed in Annex 2.

5 Validation findings

The Validation Protocol is written by the validation team in line with the descriptions above. All CARs, CLs and FARs are listed transparently and clearly.

During the validation period, a Validation Protocol was used to submit the findings to the project participants.

In line with Re Carbon Ltd. internal terminology and BCR Standard version 3.3, the team reports the non-conformities in the forms of Corrective Action Requests (CARs), Clarification Requests (CLs) and Forward Action Requests (FARs). When



and for which type of non-conformities CARs, CLs and FARs are issued are explained below.

The Validation team raises a CAR if one of the following occurs:

- The project participants have made mistakes that will influence the ability of the project activity to achieve real, measurable additional emission reductions
- The CDM and/or BCR requirements have not been met
- There is a risk that emission reductions cannot be monitored or calculated.

The Validation team raises a CL if information is insufficient or not clear or not sufficiently transparent to determine whether the applicable CDM and/or BCR requirements have been met.

The Validation team raises a FAR during the validation to highlight issues related to project implementation that require a review during the first verification of the project activity.

According to these principles, a total of 38 CARs, o7 CLs and oo FARs were raised; all of which are listed in the Validation Protocol.

5.1.1 Methodology deviations

N/A

5.1.2 Project document deviations

The project holder, Zlatar Mramorak Doo. However, the contact person has been changed to Dušan Dobriković. He is Plant Manager at Bio Gold Energy doo, the declaration from the company has been provided to the Re-carbon Ltd team. In the registered PD, food waste sources were indicated different. However, the project owner is buying the waste food from Eko Maber, Beotok and Eko Smart. These companies source is not project owner's source, therefore it has been corrected. During physical site visit VVB checked and confirmed that Eko Maber, Beotok and Eko Smart are the food waste source for the project.

5.1.3 Other GHG programs.

CAB (VVB) has checked the I-REC Registry (<u>https://register.evident.global/device-register</u>), the project is not registered to the I-REC Registry, so there is no double counting in the project for this quantification period. A declaration about double counting has been provided by the project owner. Similarly, GS project database (<u>https://registry.goldstandard.org/projects?q=&page=1</u>), VCS



(https://registry.verra.org/app/search/VCS/All%20Projects) and GCC project database (https://projects.globalcarboncouncil.com/pages/submitted projects) were checked for double counting and this project isn't available within GS and GCC projects' databases, either. Given that CDM projects are not applicable in Serbia and the project does not appear on domestic REC scheme, I-REC other registries. The project does not participate in any emission trading program and other GHG Programs including renewable energy certificates (RECs) and this is also confirmed. It could be confirmed that no RECs and other VER carbon credits are being issued for the project at the time of this process.

5.1.4 Grouped projects (if applicable)

Mramorak 1&2 project is not a grouped project as per the definition provided in the BioCarbon Registry Voluntary Carbon Market Standard, Version 2.0, Nov 2022.p.36

6 Verification findings

6.1 Project and monitoring plan implementation

6.1.1 Project activities implementation

The project is fully implemented according to the description presented in the registered PD. Project activity consists of the identical Mramorak 1&2 Biogas Power Plants are also part of a bundled Greenfield project activity that uses anaerobic treatment to reduce greenhouse gas emissions through methane recovery and replace carbon-intensive Serbian EPS grid electricity with renewable biogas energy. Re-carbon team checked and verified this by physically being on-site. Each biogas plant has an installed capacity of 0.999 MW, making the project's total installed capacity 1.998 MW. This information was confirmed with the generation license and crosschecked via generation values. Utilizing the biogas produced by the anaerobic treatment of organic wastes and plant residues, the project generates renewable electricity. Organic wastes include cattle manure, both in liquid and solid form, plant-based organic wastes (starch waste, liquid starch waste, CSL), waste from plants (silage corn and silage barley) and non-hazardous food wastes. Recarbon team visited these sources. The project runs twenty-four hours a day as full-time. The project's two primary technological components are as follows. These are gas engine units and anaerobic digesters. Organic wastes are anaerobically digested and treated by main digesters and post-digesters; gas engine units generate renewable heat and electricity. The digested effluent from the post-digester units was transformed into an organic fertilizer rich in nutrients, which the project owner uses as fertilizer. The team



checked this information during the physical site visit and cross-checked it with technical information documents.

The project's technical characteristics have not changed since its beginning on June 24, 2020, which also happens to be the start date of the project's first quantification period. As a result, the project has been run smoothly throughout the first monitoring period, which runs from June 24, 2020, to December 31, 2023, without any equipment overhauls or downtime. There were no noteworthy occurrences during the observation period that could have affected the methodology's applicability. *75,655* tCO2 emission reductions were accomplished by the project during this monitoring period. Based on the local and technical expertise of the team Re-carbon ltd checked and confirmed.

6.1.2 Monitoring plan implementation and monitoring report

The monitoring plan is in accordance with the approved methodology, AMS-III.AO Version 1.0 and AMS-I.D. Version 18.0, applied by the project activity.

In line with the relevant methodology, the MR reports on all parameters. The amount of biogas generated is measured using flow meters, methane content in the biogas is set as the default value, the volatile solids content of animal manure, the quantity of manure treated measured through weighbridge, number of plant operational days, net quantity of heat based on steam supplied with associated temperature and pressure for enthalpy determination deducting the condensate return and electricity fed into the grid by the project is monitored continuously by redundant metering devices, two of them being the main ones at the substation, which provides the data for the monthly invoicing to EPS Distribucija Doo. Fuel consumption due to the project activity in transporting the manure from farms to the project plant being based on average truck capacity and measured average incremental distance for material transportation. The physical site visit and review of documents confirm that the monitoring has been carried out in accordance with the registered monitoring plan.

The total volumetric flow of biogas to the gas engines and flares from the digestors is measured by TecJet 110 mode flow meters with serial numbers 22184210 (Mramorak 1) and 21813660 (Mramorak 2). Operational hours of the treatment plant are monitored continuously. Gas is analyzed by the Awite gas analyzer, type AwiFLEX Cool+. It measures values of methane, carbon dioxide, oxygen and hydrogen sulfide. The serial number of the gas analyzer is 2774. Desulphurisation has been occured by Awite device, type AwiDesulf 500. It is pumping oxygen inside the Digesters in small amounts 0%-1% in total, keeping alive the colonies of bacteria that are fed by sulfur.

The net electricity is measured continuously by a main meter at the grid interface and recorded monthly. Electricity has been delivered to the Serbian EPS grid system through the sub-station which is 0,1 km away from the project site. There are also power meters at the substation. The serial numbers of these meters are 25 63 21(Mramorak 1) 25 63 23 (Mramorak 2). Electricity generation is measured continuously at the substation. The meters used are in line with the regulatory requirements for electricity meters.



The main meters of accuracy class of 0.5/1.0 having serial numbers 43 267 888 (Mramorak 1) and 44 202 354 (Mramorak 2), Landis+Gyr E650 make for the main meters respectively are used at the project site. Calibrations have been carried out according to the applicable national regulation, called as "Pravilnik o overavanju merila" ("Serbian Rulebook on certification of benchmarks" in English).

All these parameters have been monitored continuously during the current monitoring period. The records of the same could be verified.

The electricity meters have been controlled and maintained by the grid owner. The quantity of net electricity delivered to the grid has been calculated with the EPS Distribucija doo records. All readings and billings are done via EPS Distribucija doo, which is the legal database of the ministry.

A computerized system is available from which daily reports are taken. The data collected daily is saved in the plant manager's computer and backed up. Records were checked during the physical visit followed by a desk review of submitted documents and there were no differences in data.

6.1.2.1 Data and parameters

All parameters required by the methodology and BCR Standard are monitored. The parameters were monitored and determined as per the monitoring plan of the BCR PD(version 1.5 dated 24/08/2023). The amount of biogas captured and gainfully destroyed was based on the monitoring system.

Monitoring parameters include the following:

- f_y: Fraction of methane captured at the SWDS and flared, combusted or used in another manner that prevents the emissions of methane to the atmosphere in year y (fraction). Measured records have been provided. Value is "o (zero)". The value has been checked in the records and confirmed.
- W_{j,x}: Amount of solid waste type j disposed or prevented from disposal in the SWDS in the year x (ton/year). Logbook has been provided by PP. VVB checked values and confirmed in below:

Year	Municipal solid food waste (ton)
24/06/2020-31/12/2020	0
01/01/2021-31/12/2021	249.22
01/01/2022-31/12/2022	3,223.56
01/01/2023-31/12/2023	2,378.16
Total	5,840.94



• N_{LT,y}: Annual average number of animals of type LT in year y (number). Farm records have been checked and confirmed by VVB in below:

Year	Ndairy cow	Neon-dairy cow
24/06/2020-31/12/2020	471	336
01/01/2021-31/12/2021	1,528	1,911
01/01/2022-31/12/2022	1,416	1,837
01/01/2023-31/12/2023	1,340	1,763
Total	4,754	5,847

- MS_{%BI,j}: Fraction of manure handled in baseline animal manure management system j (fraction). Project owner disposed all of the manure produced by the cattle farms to the open lagoon at the baseline scenario. During physical site visit VVB checked and confirmed that All the manure produced by the farms are taken to the Mramorakı&2 digesters. Thus, project achieved 100%.
- Q_{manure,y}: Quantity of raw waste/manure treated and/or wastewater co-digested in the year y (tonnes). Records have been checked during physical site visit and confirmed value in below:

Year	$Q_{manure,y}(ton)$
24/06/2020-31/12/2020	0 ³
01/01/2021-31/12/2021	4,493.90
01/01/2022-31/12/2022	7,488.52
01/01/2023-31/12/2023	7,425.85
Total	19,408.27

³ In 2020, manure waste from the onsite farm, Mramorak farm, were put into the digesters. No manure received from Stari Tamis in 2020.



• Q_{SWDS,y}: Quantity of raw waste/manure treated and/or wastewater codigested in the year y (tonnes). Records have been checked during physical site visit and confirmed value in below:

Year	QSWDS,y
24/06/2020-31/12/2020	0
01/01/2021-31/12/2021	249.22
01/01/2022-31/12/2022	3,223.56
01/01/2023-31/12/2023	2,378.16
Total	5,850,94

• Q_{res waste,y}: Quantity of residual waste produced in year y (ton). Records have been checked during physical site visit and confirmed value in below:

Year	Qres waste,y
24/06/2020-31/12/2020	2,744.38
01/01/2021-31/12/2021	12,414.86
01/01/2022-31/12/2022	13,199.06
01/01/2023-31/12/2023	12,026.09
Total	40,384.39

• CT_y: Average truck capacity for transportation (tonnes/truck). Records have been checked during physical site visit and confirmed value in below:

18.5 ton/truck for manure 18.5 ton/truck for manure

• CT_{res waste,y}: Average truck capacity for residual transportation (tonnes/truck). Records have been checked during physical site visit and confirmed that " 10 ton/truck" is correct.



• DAF_w: Average incremental distance for raw solid waste/manure and/or wastewater transportation (km/truck). Records have been checked during physical site visit and confirmed value in below:

Year	DAFmanure	DAFfood
24/06/2020-31/12/2020	0	0
01/01/2021-31/12/2021	37.0	60.6
01/01/2022-31/12/2022	37.0	60.6
01/01/2023-31/12/2023	37.0	60.6

• DAF_{res waste,y}: Average distance for residual waste transportation (km/truck). Records have been checked during physical site visit and confirmed that:

The first monitoring period achieved value: 6.5 km/truck.

• FC_{i,f}: Specific consumption of fuel type f in volume or mass units per km for vehicle type i (kg/km) VVB checked and confirmed average consumption of diesel and confirmed that:

The first monitoring period achieved value: 0.2771 kg/km.

• nd_y: Number of days the central treatment plant was operational in year y (number) Records have been checked and confirmed in value below:

Year	ndy
24/06/2020-31/12/2020	191
01/01/2021-31/12/2021	365
01/01/2022-31/12/2022	365
01/01/2023-31/12/2023	365

• FVRG,h: Volumetric flow rate of the captured biogas on a dry basis at normal conditions in hour h (m₃/hr) Records have been checked and confirmed in value below:





24/06/2020-31/12/2020	503,79
01/01/2021-31/12/2021	982,61
01/01/2022-31/12/2022	1,004.75
01/01/2023-31/12/2023	1,002.12

• Fv_{CH4,RG,h}: Volumetric fraction of methane in the captured biogas on a dry basis in hour h (fraction) Records have been checked and confirmed in value below:

Year	VCH4,RG,h
24/06/2020-31/12/2020	54.36
01/01/2021-31/12/2021	55.44
01/01/2022-31/12/2022	54.67
01/01/2023-31/12/2023	55.41

• EG_{PJ,y}: Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh) The invoices issued by the EPS Distribucija have been checked and confirmed in value below:

Year	Net electricity generation MWh
24/06/2020-31/12/2020	4,146.36
01/01/2021-31/12/2021	13,752.31
01/01/2022-31/12/2022	15,470.05
01/01/2023-31/12/2023	15,822.92
Total	49,191.63

• Average Annual Temperature of Belgrade (°C) Government official published data have been checked and confirmed 13.9 °C for 2020, 13.7 °C for 2021 and 14.5 °C for 2022. There is no governmental data for 2023 however previous years have been used for related dates as 5 °C.



(https://www.hidmet.gov.rs/data/klimatologija/eng/2020.pdf, Appendix, Chart 1, p.13.

https://www.hidmet.gov.rs/data/klimatologija/eng/2021.pdf, Appendix, Chart 1, p.16.

https://www.hidmet.gov.rs/data/klimatologija/eng/2022.pdf, Appendix Chart 1, p.16.)

• V_{t,db}: Volumetric flow of the gaseous stream in time interval t on a dry basis (m³/hr) (Calculations and data have been checked and confirmed).

Mramorakı: 550 m3/hr Mramorak2: 550 m3/hr

• $V_{i,t,db}$: Volumetric fraction of greenhouse gas i in the gaseous stream in a time interval t on a dry basis (m³/m³) (Records have been checked and confirmed).

Year	$V_{i,t,db}$ (VCH ₄ ,t,db) m^3 / m^3
24/06/2020-31/12/2020	0.5436
01/01/2021-31/12/2021	0.5544
01/01/2022-31/12/2022	0.5467
01/01/2023-31/12/2023	0.5541

- η_{flare}: Flare efficiency in the minute m (%) (Flare units are enclosed type. As per the Tool o6, option A is chosen as flare efficiency, which is confirmed by VVB).
- Number of employees working at the project activity : The project owner's employee records and social security records have been checked and VVB confirmed that:

Year	Number of employees working at the project activity
24/06/2020-31/12/2020	9
01/01/2021-31/12/2021	9
01/01/2022-31/12/2022	9



01/01/2023-31/12/2023	9
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The amount of electricity fed into the grid by the project was monitored continuously by redundant metering devices, two of them being the main ones at the substation, which provides the data for the monthly invoicing to EPS Distribucija doo. Acknowledging that only two engines are part of the project activity for which emission reductions can be claimed, the apportioning of the net generation was done based on the share of generation from engine 1 and engine 2 as compared to the overall generation. Also, discounting methane from the wastewater treatment plant is conducted.

Furthermore, the amount of fossil fuel use was also monitored in the context of project emissions.

As there are no missing parameters, monitoring is complete. The verification team can confirm that the monitoring has been carried out in accordance with the monitoring plan contained in the BCR PD.

6.1.2.2 Environmental and social effects of the project activities

According to the Environmental Protection Law of Serbia, biogas power plants with an installed capacity of less than 1 MWe are exempted from environmental impact analysis due to their minimal environmental impacts. In the project activity, each biogas plant has an installed capacity of 999 kWe which is less than 1 MWe. Therefore, conducting an environmental impact analysis was not required. However, as per the legal obligations of laws and regulations of Serbia, project complies with all the environmental and waste management regulations to prevent any potential negative impacts. Regarding waste management, the project received the permits with the registration numbers of 12 and 13 from the Kovin Municipal Administration-Department for Urban Planning and Housing Communal Affairs. The relevant permits have been provided by the project owner.

There is a positive effect on the environment because of the prevention of methane emissions to the atmosphere that would happen in the absence of the project activity. As per the legal obligations of laws and regulations of Serbia, the project complies with all the environmental and waste management regulations to prevent any potential negative impacts. project activity developed "a working plan for the waste management of the facility" which provides a detailed plan regarding proper management of the waste activities. This work plan also complies with the BCR No Net Harm Environmental and Social Safeguards tool requirements. The community supports the initiative in terms of its socioeconomic effects. The project was seen by the local population as having a favorable environmental impact. Six individuals are employed by the project, two of whom are locals, supporting the local economy.

When it comes to the distance between the project site and nearby facilities that could be impacted by the waste management operation of the project, there are none, including



sports fields, playgrounds for kids, schools, etc. Therefore, the project's activities have no detrimental effects on the lives of the locals.

In addition, Kovin Municipality works with interested parties to get their perspectives on the project during the permit application process. The project owner published the project on the Kovin Municipality website during the application procedure, and no public comments or suggestions regarding the project activities were received.

Stakeholders are notified during the meeting and further in-person communications that they can always get in touch with the project plant manager in person or over the phone at any time to voice their complaints in the future. Additionally, it was guaranteed that a grievance record notebook would be available for stakeholders to file complaints at the Mramorak village municipality office.

As of right now, interested parties can contact the plant manager via phone or in person, and they can also use the grievance notebook to voice their objections.

In the event that stakeholders offer unfavorable comments, the project manager will get in touch with them and address the matter.

6.1.2.3 Procedures for the management of GHG reductions or removals and related quality control for monitoring activities

Project emissions of the project activity are estimated as per the AMS-III.AO and AMS-I.D methodologies and applicable tools as per these methodologies as provided to estimate project emission reductions correctly, the project owner has a robust data management system where it archives applicable parameters that are used in project emission calculations.

6.1.2.4 Description of the methods defined for the periodic calculation of GHG reductions or removals and leakage

Project emissions of the project activity are estimated as per the AMS-III.AO and AMS-I.D methodologies and applicable tools as per these methodologies. To estimate project emission reductions correctly, project owner has an robust data management system where it archives applicable parameters which are used in project emission calculations. Please see Section 16.1 to see the parameters required for project emission calculations, which are monitoring parameters at the same time. Monitoring parameters are already monitored in a conservative and provable way as per the AMS-III.AO and AMS-I.D.

6.1.2.5 Assignment of roles and responsibilities for monitoring and reporting the variables relevant to the calculation of reductions or removals

The accountant's office is the natural identity that already archives some of the monitoring parameters as part of its business. The average number of animals for dairy and non-dairy



cows, and value, electricity generation and consumption data, and fuel consumption by the trucks are archived at the accountant's office. The volumetric flow rate of the captured biogas and the volumetric fraction of methane in the captured biogas are monitored and recorded by the Biogas Plant Department. At the Gas Station department, power meters installed within the gas engine units will produce auxiliary data that will be used for crosschecking the electricity generation by the project activity. Power meters at the grid substation are not monitored by the project owner. These meters are controlled by the EPS Distribucija doo, which is the government company buying the electricity from the project owner. All calibration and control of these power meters at the grid substation are under the control of the EPS Distribucija doo.

6.1.2.6 Procedures related whit the assessment of the project contribution whit the Sustainable Development Goals (SDGs)

Regarding the United Nations Sustainable Development Goals (SDGs), the Mramorak 1&2 project achieves the following SDGs:

SDG 7 Affordable and Clean Energy / SDG 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix / SDG 7.2.1 Renewable energy share in the total final energy consumption:

CAB (VVB) checked and confirmed that project activity generates renewable energy, about 15,500 MWh annually, by capturing biogas from cattle manure, non-hazardous food wastes, plant wastes (starch waste, liquid starch wastes, CSL) and agricultural plant residues (slage corn and slage barley) via anaerobic digestion and supplies it to the fossil fuel dominated Serbian EPS grid system. In this way, the project contributes to the SDG 7.2. target and the relevant indicator is SDG 7.2.1.

SDG Goal 8 Decent Work and Economic Growth /SDG 8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value / 8.5.1 Average hourly earnings of employees, by sex, age, occupation and persons with disabilities

CAB (VVB) checked and confirmed that the project created job opportunities during both the construction and operation phases. During operation, the project employs 9 people and 2 of them are from local villages.

SDG Goal 13 Climate Action/ SDG 13.2 Integrate climate change measures into national policies, strategies and planning / SDG 13.2.2 Total greenhouse gas emissions per year:

CAB (VVB) checked and confirmed that the project will naturally play an important role in global climate change mitigation activities by preventing emissions of methane that would otherwise be released to the atmosphere in the baseline conditions. The project annually achieves 22,058 tCO₂ emission reduction. In this way, it contributes to SDG 13 goals of the UN.



6.1.2.7 Procedures associated with the monitoring of co-benefits of the special category, as applicable

N/A

6.2 *Quantification of GHG emission reductions and removals*

6.2.1 *Methodology deviations (if applicable)*

N/A

6.2.2 Baseline or reference scenario

CAB(VVB) checked and confirmed calculations below:

$BE_{Mramorak1\&2,y} = BE_{SWDS,y} + BE_{manure,y} + BE_{elect,y}$

In this formula, baseline emission as per the AMS-III.AO is indicated as " $BE_{SWDS,y}$ + $BE_{manure,y}$ ". Baseline emission that comes from AMS-I.D is indicated as $BE_{elect,y}$. Following parts of this section provides how this formula is derived from AMS-III.AO and AMS-I.D.

Baseline emission calculations are provided in the associated excel file (Mramorak1&2_ER_CalculationsRev.xls).

As per the AMS-III.AO methodology, baseline emission is as follows:

BE_y=BE_{SWDS,y}+ BE_{ww,y} + BE_{manure,y} - MD_{reg,y} x GWP_{CH4} (Eq. 1)

Where,

BE_{SWDS,y} Where applicable, yearly methane generation potential of the solid waste anaerobically digested by the project activity during the year x from the beginning of the project activity (x=1) up to the year y estimated as per the latest version of the "Tool to determine methane emissions avoided from disposal of waste at a solid waste disposal site" (tCO2e). The tool may be used with the factor "f=0.0" assuming that no biogas is captured, flared or used. With the definition of year x as the base year since the project activity started diverting wastes from the SWDS/landfill site. x runs from the first year of the crediting period (x=1) to the year for which emissions are calculated (x=y). Where applicable, baseline emission determination of digested waste



that would otherwise have been disposed in stockpiles shall follow relevant procedures in AMS-III.E

- BE_{ww,y} Where applicable, baseline emissions from the wastewater codigested, calculated as per the procedures of AMS-III.H
- BE_{manure,y} Where applicable, baseline emissions from the manure co-digested by the project activities, calculated as per the relevant procedures of AMS-III.D
- MD_{reg,y} Amount of methane that would have to be captured and combusted in the year y to comply with the prevailing regulations (ton)
- GWP_{CH4} GWP for CH4

In Republic of Serbia, as per the laws, there is no regulation or legal enforcement to capture methane from manure treatment plants, wastewater treatment plants or SWDSs. Therefore $MD_{reg,y}$ is taken as zero in calculations.

GWP for CH4 is taken as 28 as per the IPCC Fifth Assessment Report.⁴

Project activity claims carbon emission reduction for manure (BE_{manure,y}) and municipal solid waste (BE_{SWDS,y})

Hence the formula is simplified as;

BEy=BE_{SWDS,y}+ BE_{manure,y}

Baseline Emission for Municipal Solid Waste (BE_{SWDS,y})

AMS-III.AO ver. 1.0. refers to the ""Emissions from solid waste disposal site" Version 8.0." for food waste baseline emission reductions. Project activity only uses organic municipal solid waste and they are wet based. Therefore equation 15 of the Tool 04 is used.

⁴<u>https://www.ghgprotocol.org/sites/default/files/ghgp/Global-Warming-Potential-</u> Values%20%28Feb%2016%202016%29_1.pdf.


$$BE_{CH4,SWDS,y} = \varphi_{y} \times (1 - f_{y}) \times GWP_{CH4} \times \sum_{x=1}^{y} Default_{org,x} \times W_{org,x}$$

- BE_{CH4,SWDS,y} Baseline, project or leakage methane emissions occurring in year y generated from waste disposal at a SWDS during a time period ending in year y (t CO2e/yr)
- x Years in the time period in which waste is disposed at the SWDS, extending from the first year in the time period (x = 1) to year y (x = y)
- y Year of the crediting period for which methane emissions are calculated (y is a consecutive period of 12 months)
- φ_{y} Model correction factor to account for model uncertainties for year y
- W_{j,x} Amount of solid waste type j disposed or prevented from disposal in the SWDS in the year x (t)
- f_y Fraction of methane captured at the SWDS and flared, combusted or used in another manner that prevents the emissions of methane to the atmosphere in year y
- GWP_{CH4} Global Warming Potential of methane
- Default_{org,x} The value of Default_{org,x} depends on the climate zone. These values were derived by an analysis of registered CDM projects with verified waste compositions, and the Default_{org,x} values are selected to ensure conservativeness of the resulting baseline emissions (using 95% confidence and 10% precision)

Baseline Emission for Manure (BEmanure,y)

AMS-III.AO refers to the latest version of the AMS-III.D methodology.



AMS-III.D Methane recovery in animal manure management systems, Version 21.0.5

The baseline scenario is the situation where, in the absence of the project activity, animal manure is left to decay anaerobically within the project boundary and methane is emitted to the atmosphere. Baseline emissions (BEy) are calculated by using one of the following two options:

To calculate baseline emission by manure, Option a is chosen.

 $BE_{manure,y} = GWP_{CH4} \times D_{CH4} \times UF_b \Sigma(MCF_j \times B_{0,LT} \times N_{LT,y} \times VS_{LT,y} \times MS_{\%Bl,j})$

Where,

5

BE _{manure,y} (BE _y)	Baseline emissions in year y (t CO2e)
GWP _{CH4}	Global Warming Potential (GWP) of CH4 applicable to the crediting period (t CO2e/t CH4)
D _{CH4}	CH4 density (0.00067 t/m3 at room temperature (20 $^{\rm o}{\rm C})$ and 1 atm pressure)
LT	Index for all types of livestock
j	Index for animal manure management system
UF₅	Model correction factor to account for model uncertainties (0.94)
MCFj	Annual methane conversion factor (MCF) for the baseline animal manure management system j
B _{0,LT}	Maximum methane producing potential of the volatile solid generated for animal type LT (m 3 CH $_4$ /kg-dm)
N _{LT,y}	Annual average number of animals of type LT in year y (numbers)

https://cdm.unfccc.int/UserManagement/FileStorage/1AWXEKHVTYF423LCN56Z9GIMQOS8J R.



VS _{LT,y}	Volatile solids production/excretion per animal of livestock LT in year y (on a dry matter weight basis, kg-dm/animal/year)
$MS_{{}^{\!$	Fraction of manure handled in baseline animal manure management system j

Annual temperature in the site where the anaerobic manure treatment facilities in the baseline existed, is 11.4°C⁶, which is higher than 5°C.

AMS-I.D. Baseline emission from renewable energy part of the project activity

BE elect,y=EGpj,y x EFgrid,y

Where:

BE _{elect,y}	Baseline emissions in year y (tCO ₂)
EG _{pj,y}	Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the CDM project activity in year y (MWh)
$EF_{grid,y}$	Combined margin CO2 emission factor for grid connected power generation in year <i>y</i> calculated using the latest version of the "Tool to calculate the emission factor for an electricity system" (tCO2/MWh)

In the absence of the project activity, same amount of electricity would be used from the grid. CEF_{grid} should be calculated according to Tool 07 *"Tool to calculate the emission factor for an electricity system"*. Version 07.0 is the latest revision of the tool.

Estimation of CEFgrid Emission Factor for Serbian grid system

⁶ <u>https://www.hidmet.gov.rs/data/klimatologija/eng/2021.pdf</u>. P.2. Measured in 2021.



Tool 07 was used to determine the CO₂ emission factor for the displacement of electricity generated by power plants in an electricity system, by calculating the "combined margin" emission factor (CM) of the electricity system.

As per the calculations as indicated in the validated Mramorak1&2 Biogas Power Plants BCR PDD, BCR-RS-493-1-001,

EF_{grid,CM,y} = 1.078674742 tCO2/MWh

In the validated Mramorak1&2 Biogas Power Plants BCR PDD, BCR-RS-493-1-001, The grid emission factor (CEF_{grid}) was fixed ex-ante and will not be updated ex-post.

6.2.3 Additionality

Additionality has been checked during validation stage, in this verification there is no change in the additionality of the project activity. It is still valid.

6.2.4 Conservative approach and uncertainty management

The project holder, is in charge of carrying out the monitoring plan. The director will see to it that the monitoring parameters are appropriately tracked, documented, and archived. The accountant office is a natural entity that, as part of its operations, already archives some of the monitoring parameters. The accountant's office archives the average number of dairy and non-dairy cows, the value of the ndy, data on power generation and consumption, and fuel use by the vehicles. The Biogas Plant department keeps track of and records the volumetric flow rate of the collected biogas as well as the volumetric fraction of methane in the captured biogas.

Power meters built into the gas engine units at the Gas Station department will generate supplemental data that will be utilized to double-check the amount of electricity generated by the project activities. The project owner does not keep an eye on the power meters at the grid substation. The government-owned business that purchases power from the project owner is called EPS Distribucija doo, and it is in charge of these meters. The EPS Distribucija doo is in charge of all calibration and control of these power meters at the grid substation.

Estimating the project activity's emission reductions is the responsibility of the carbon consultant.

Throughout the study, all data for each monitoring parameter—both ex-post and exante—will be saved and maintained for longer than five years.

For power meters are calibrated every 12 years in accordance with this rule. Please refer to the regulation's line "for direct and semi-indirect connection," number 29. The power meters installed at the substation in accordance with the regulations are the ones that are calibrated every 12 years. As per the regulations, power meters placed in the codigesters at



the project activity are exempt from calibration equipment requirements (see to regulation number 28). Furthermore, the power meters at the substation run by EPS Distribucija Doo are not yet calibrated because the project began on June 24, 2020. On June 24, 2030, the first calibration will be used. Power meters installed by the manufacturer business are technically a part of the cogeneration and are located in the gas engine units. The contract with EPS Distribucija Doo, the electricity distribution company that operates the electricity meters at the grid substation, has been submitted to VVB. In addition, the company Zlatar doo has provided a letter which assures and states that the calibration of the meters at the grid substation is the responsibility of EPS Distribucija Doo.

Besides project's emission reduction calculations are based on CDM methodologies, AMS-III.AO and AMS-I.D. According to methodologies, calculations based on a conservative approach.

CAB (VVB) confirms that, the information given above is correct and in line with regulations.

6.2.5 Leakage and non-permanence

According to AMS-III.AO, "Leakage effects are to be considered (LEy) if the project technology is the equipment transferred from another activity or if the existing equipment is transferred to another activity."Nothing from another activity was transferred to this project activity; everything was built from scratch. Leakage emission is therefore taken to be zero. LEy is equal to zero "The methodology is applicable to a programme of activities, no additional leakage estimations are necessary other than that indicated under the leakage section above," according to AMS-I.D. Section 7.

Since the project activity does not employ biomass and makes no claims for the reduction of CO₂ emissions from plant residues, leakage is calculated based on zero according to AMS-I.D.

6.2.6 *Mitigation results*

Quantification of emission reductions of the project activity is calculated as per the AMS-III.AO and AMS-I.D. For the waste handling and disposal component of the project activity, AMS-III.AO is used. The project also claims carbon emission reductions due to the replacement of the electricity from the Serbian EPS grid system with renewable electricity produced by the project activity. For renewable components, AMS-I.D. is used

CAB (VVB) confirmed that calculations are in line with methodologies



	Estimated GHG emission reductions or removals (tCO2e)	Net GHG emission reductions or removals (tCO2e)
Emission reductions / removals (tCO2)	75,664	75,655

There are a number of factors that contribute to differences between ex-ante estimation and monitored impacts. These include net electricity generation, the amount of food waste received, the number of animals, the average distance that the trucks travelled to carry manure, food waste and digestate, and so on. The values of these parameters for a specific year can either increase or decrease the comparison value (%). The total effect was found to be -0.96%, which can be stated as a very low difference.

Quantification of emission reductions of the project activity is calculated as per the" AMS-III.AO Version 1.0 and AMS-I.D. Version 18.0". Project also claims carbon emission reductions due to the replacement of the electricity from the "Serbia" EPS grid system with renewable electricity produced by the project activity.

CAB (VVB) confirmed that calculations are in line with methodologies

6.3 Environmental and social effects of the project activities and no net harm

According to the Environmental Protection Law of Serbia, biogas power plants with an installed capacity of less than 1 MWe are exempted from environmental impact analysis due to their minimal environmental impacts. In the project activity, each biogas plant has an installed capacity of 999 kWe which is less than 1 MWe. Therefore, conducting an environmental impact analysis was not required. However, as per the legal obligations of laws and regulations of Serbia, the project complies with all the environmental and waste management regulations to prevent any potential negative impacts. Regarding the waste management, the project received the permits with the registration numbers of 12 and 13 from the Kovin Municipal Administration-Department for Urban Planning and Housing Communal Affairs. The relevant permits have been provided by the project owner.

6.4 Project contribution whit the Sustainable Development Goals (SDGs)

Regarding the United Nations Sustainable Development Goals (SDGs), the Mramorak 1&2 project achieves the following SDGs:

SDG 7 Affordable and Clean Energy / SDG 7.2 By 2030, increase substantially the share of renewable energy in the global energy mix / SDG 7.2.1 Renewable energy share in the total final energy consumption:



CAB (VVB) checked and confirmed that project activity generates renewable energy, about 15,500 MWh annually, by capturing biogas from cattle manure, non-hazardous food wastes, plant wastes (starch waste, liquid starch wastes, CSL) and agricultural plant residues (slage corn and slage barley) via anaerobic digestion and supplies it to the fossil fuel dominated Serbian EPS grid system. Through this way, project contributes to the SDG 7.2. target, and the relevant indicator is SDG 7.2.1.

SDG Goal 8 Decent Work and Economic Growth /SDG 8.5 By 2030, achieve full and productive employment and decent work for all women and men, including for young people and persons with disabilities, and equal pay for work of equal value / 8.5.1 Average hourly earnings of employees, by sex, age, occupation and persons with disabilities

CAB (VVB) checked and confirmed that the project created job opportunities during both the construction and operation phases. During operation, the project employs 9 people and 2 of them are from local villages.

SDG Goal 13 Climate Action/ SDG 13.2 Integrate climate change measures into national policies, strategies and planning / SDG 13.2.2 Total greenhouse gas emissions per year:

CAB (VVB) checked and confirmed that project will naturally play an important role in global climate change mitigation activities through preventing emissions of methane that would otherwise be released to the atmosphere in the baseline conditions. The project annually achieves 23,083 tCO₂ emission reduction. In this way, it contributes to SDG 13 goals of the UN.

6.5 Co-benefits (if applicable)

N/A.

6.6 Double counting avoidance

The double counting assessment is performed as explained in "5.1.3 Other GHG program". It is also in the line with Since the avoiding of BCR double counting tool version 2.0.

6.7 Compliance with applicable legislation

Mramorakı&2 project was implemented in accordance with Serbian national laws and regulations. The project received all necessary permissions from the related governmental organizations.

Applicable laws and regulations to the project activity:



- 1) The Law on Energy (Zakon O Energetici, "Sl. glasnik RS", br. 145/2014, 95/2018 dr. zakon i 40/2021);⁷
- 2) Law on Energy Efficiency and Rational Use of Energy (Zakon o Efikasnom Korišćenju Energije, "Sl. glasnik RS", br. 25/2013 i 40/2021 dr. zakon);⁸
- 3) Waste management law (Zakon o Upravljanju Otpadom, "Sl. glasnik RS", br. 36/2009 i 88/2010);⁹
- 4) Environmental Protection Law (Zakon O Zaštiti Životne Sredine, "Sl. glasnik RS", br. 135/2004, 36/2009, 36/2009 - dr. zakon, 72/2009 - dr. zakon i 43/2011 - odluka US);¹⁰
- 5) Law on Use of Renewable Energy Sources (Zakon o Korišćenju Obnovljivih Izvora Energije.¹¹

Based on these laws, project received the following permissions and licenses to establish and operate the Mramorak 1&2 project.

 For generating the electricity: Project received an electricity generation license from the Ministry of Mining and Energy of Serbia. Mramorak 1 received its license on 27/11/2018 with the number of 312-01-01059/2018-06 by the Zlatar Mramorak Doo. Mramorak 2 received its license on 04/12/2018 with the number of 312-01-01058/2018-06 by the BioGold Energy Doo.¹² Both companies are 100% owned by the parent company, Almex doo.¹³

Electricity generation licenses were revised later. Mramorak 1's revised license is dated as 17/06/2020 with the number of 312-01-00353/2020-06 and Mramorak 2's revised license is dated as 05/03/2021 with the number of 312-01-00021/2021-06.¹⁴

2) For the storage and treatment of non-hazardous wastes: Permit (with registration number 12) was issued to the project owner, "Zlatar", by the Kovin Municipal Administration-Department for Urban Planning and Housing

⁷ <u>https://mre.gov.rs/dokumenta/sektor-za-elektroenergetiku/zakoni</u>.

⁸ https://mre.gov.rs/dokumenta/sektor-za-energetsku-efikasnost-i-toplane/zakoni.

⁹ Serbian Biogas Association, Legal Frameworks, <u>https://biogas.org.rs/en/legal-framework/</u>, Visited on 13 July 2022.

¹⁰ Serbian Biogas Association, Legal Frameworks, <u>https://biogas.org.rs/en/legal-framework/</u>, Visited on 13 July 2022.

¹¹ <u>https://mre.gov.rs/dokumenta/sektor-za-zelenu-energiju/zakoni</u>.

¹² Ministry of Mining and Energy,

https://mre.gov.rs/sites/default/files/registri/RegistarPovlasPro12-8-2022.html.

¹³ These licenses are provided as complementary document to the DOE.

¹⁴ These licenses are provided as complementary document to the DOE.



Communal Affairs based on the Law on Waste Management ("Official Gazette of the RS", No. 36/09, 88/10, 14/16 and 95/18 - other laws).

Evidences are provided in Appendix 501-56/2021-IV for Zlatar doo.

For the storage and treatment of non-hazardous wastes: permit (with the registration number 13) was issued to the project owner, "Bio Gold Energy doo", by the Kovin Municipal Administration-Department for Urban Planning and Housing Communal Affairs based on the Law on Waste Management ("Official Gazette of the RS", No. 36/09, 88/10, 14/16 and 95/18 - other laws). Permit number is 13. The validity of the permit was 10 years from 02.11.2021 to 02.11.2031. After 10 years, it will be renewed.

CAB (VVB) confirmed that the project complies with the relevant regulations.

6.8 Carbon ownership and rights

The holder of project acitivity is Zlatar Mramorak Doo. Carbon consultant company of the project activity is "Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti". Carbon ownership of the project activity is belonged to the project owner, which is the Zlatar Mramorak Doo. BioGold Energy Doo has transferred its carbon credit-related rights to the Zlatar Mramorak Doo by the agreement dated as 29/11/2023. As a note, both BioGold Energy and Zlatar Mramorak Doo companies are belonged to the same parent company, Zlatar Doo.

6.9 Risk management

Since the beginning of its operation, project activity has run well. The project poses no danger with regard to the input of organic waste. The project owner owns the farms that supply manure for the project's activities. Since non-hazardous food waste is produced in large quantities in Belgrade, it is easy to identify food waste from eateries, retail establishments, etc. Furthermore, the project owner has no trouble moving food waste from the sources to the project site. Other sources are produced by the project owner's commercial operations, such as starch waste and silage barley and maize. Thus, there is no problem with the waste input to the biogas plants continuing. The project's performance risk is considerably low in terms of managerial and regulatory aspects. There is no regulatory barrier in Serbia to operate biodigesters. There is no problem regarding waste receivement, given that except food waste all the ones are generated by the project owner. Biodigester plants are operated as per the Waste Management Law of Serbia and received all the necessary permits for waste management from the Kovin Municipality.



6.10 Stakeholders' Consultation

Local stakeholders were invited to provide feedback on the "Mramorak 1&2 Bundled Biogas Power Plant" project during a stakeholder consultation meeting dated 22/08/2022. Participants were invited to the conference 10 days in advance by public notice invites posted in easily accessible and frequent areas. One of the announcements was put on the municipality building's official public notice board. The other one was displayed on the village bulletin board where everyone passes. The meeting was also announced by the local radio.

Moreover, during the on-site visits dated o6/o2/2024 and o7/o2/2024, the mukhtar of Mramorak village confirmed that all the questions that were asked at the stakeholder consultation meeting were answered adequately. Moreover, the local stakeholders were informed about the project activity.

6.11 Public Consultation

There had not been any complaint raised by the interviewed local stakeholders during the on-site visit as detailed in Sections 2.3 and 2.4 of the report. The local stakeholders as stated in Table 2-2 above were interviewed about the following issues and there had not been any complaints by the interviewed local stakeholders during the on-site visit:

- Flies and odor problems due to the project activity
- Any harm to animals and agricultural lands

• Sufficiency of local employment (The interviewed local stakeholders were pleased about the provided local employment opportunities by the PP)

• Waste and leachate management practices implemented by PP

It was also concluded that the grievance mechanism is in place and this was also confirmed by the interviewed local stakeholders during the on-site visit.

6.12 REDD+ safeguards (if applicable)

N/A

6.13 Climate change adaptation

The project in line with BCR Standard, especially section 10.8. As CAB Re-carbon checked and confirmed the information given below.



The project owner carried out actions related to adaptation to climate change and shows that these result from the Greenhouse Gas Project activities, in addition to having solid and clear criteria showing its contribution to climate change mitigation, thus proving this. they are:

(a) One or more measures recommended in National Climate Change Policies taking into account the strategic line and/or focusing on the issues specified in the legislation of the country where the project is implemented;

(b) improve conditions for the conservation of biodiversity and ecosystem services in areas of impact outside the project boundaries; namely natural cover in environmentally important areas, biological corridors, water management in watersheds and others;

(c) activities that create sustainable and low-carbon, productive environments to apply;

(d) restoration processes in areas of particular environmental importance to suggest;

(e) designing adaptation strategies based on the ecosystem approach and to apply;

(f) local support of institutions and/or communities to make informed decisions to anticipate adverse impacts from climate change strengthening their capacities (recognition of vulnerability conditions); as well as taking advantage of opportunities from anticipated or proven changes.

7 Internal quality control

As a final step of verification, the final documentation including the verification report and annexes must undergo internal quality control by Re Carbon Ltd. This quality control is also referred to as the "Independent Technical Review" process.

The Independent Technical Review is performed by another Team Leader of RE-Carbon Ltd. who was not involved in the verification activities of this specific project activity. When the appointed Team Leader finalizes the Verification Report, the report is sent to the (for this project specifically appointed) Independent Technical Reviewer who reviews not only the verification report itself but also all supporting documents such as the emission factor calculations, additionality justifications, relevant excel sheets, etc.



Further CLs and CARs may be raised by the Independent Technical Reviewer during this review, in order to cover all the points that may need further clarification.

After all CLs and CARs are closed, the verification report is again reviewed and finally approved by the Team Leader, ITR and the Certification Manager, and the registration request is submitted to the Project Developer along with the relevant documents.

8 Verification opinion

Re Carbon Ltd. performed the verification of the "Mramorak 1&2 Bundled Biogas Power Plants" in "Serbia", between 24/06/2020 and 31/12/2023The GHG Statement is the responsibility of the "Project Proponent". The verification was performed based on Verification criteria for projects set out in BCR Standard Version 3.3, UNFCCC criteria for the CDM and Host Party criteria, as well as per criteria given to provide for consistent project operations, monitoring and reporting.

The verification was performed by a verification team consisting of "Rohit Badaya as a Team Leader, Selen Cilasun as a trainee verifier, Dragomir Vasic as a Regional Expert, Abdulkadir Bektaş as an Agricultural Expert and Sandeep Kanda as a ITR." and the project activity was checked against the applicable rules and regulations of CDM including CDM Validation and Verification Standard for project activities version 3.0, CDM Project Standard for project activities version 3.0 and BCR Standard Version 3.3 "

Re Carbon Ltd. hereby confirms that the proposed project activity "Mramorak 1&2 Bundled Biogas Power Plants" in "Serbia", applied all relevant EB-guidance as the selected baseline and monitoring methodologies and the associated methodological tools have been applied correctly. Verification of the GHG statement was conducted in accordance with ISO 14064-3; AMS-III.AO Version 1.0 and AMS-I.D. Version 18.0", subsequent decisions and guidance made by COP/MOP & CDM Executive Board and other related rules, all according to the guidance given in the CDM Validation and Verification Standard for Project Activities version 3.0, CDM Project Standard for Project Activities version 3.0, and BCR Standard version 3.3.

As a result, the verification team assigned by Re Carbon Ltd. concludes that the proposed Project Activity "Mramorak 1&2 Bundled Biogas Power Plants" in Serbia, as described in the BCR-PD (1.5 dated 24/08/2023)



- meets all relevant Host Country criteria;
- meets all relevant requirements of the BCR project activities [including BCR Standard version 3.3, Article 12 of the Kyoto Protocol, the Modalities and Procedures for CDM (Marrakesh Accords) and the subsequent decisions and guidance by the COP/MOP and the CDM Executive Board];
- applies correctly the baseline and monitoring methodology "AMS-III.AO Version 1.0 and AMS-I.D. Version 18.0";
- its additionality is sufficiently justified in the PD;
- is likely to achieve estimated emission reductions;

The verified GHG emission reductions over the entire quantification period of the proposed project:

Year	GHG emission reductions in the baseline scenario (tCO2e)	GHG emission reductions in the project scenario (tCO _{2e})	GHG emissions attributable to leakages (tCO _{2e})	Estimated Net GHG Reduction (tCO _{2e})
24/06/2020- 31/12/2020	6,102	1,191	0	4,911
01/01/2021- 31/12/2021	26,758	3,975	0	22,783
01/01/2022- 31/12/2022	28,502	4,558	0	23,943
01/01/2023- 31/12/2023	28,628	4,610	0	24,018
Total	89,990	14,334	0	75,655

Therefore, Re Carbon Ltd. requests the registration of the proposed project activity as a BCR project activity.

9 Verification statement

Verification statement upon achievement of the validation or verification, which complies with the following:



Carbon ownership of the project activity is belonged to the project owner, which is the Zlatar Mramorak Doo. Bio Gold Energy Doo has transferred its carbon credit related rights to the Zlatar Mramorak Doo by the agreement dated as 05/04/2023.

Re Carbon Ltd. hereby confirms that the reasonableness of assumptions of this verification report is reasonable, with respect to material errors, omissions and misrepresentations. To guarantee this reasonableness of assumptions all data that is used in the GHG emission reduction calculations have been reviewed without any sampling.

Re Carbon Gözetim Denetim ve Belgelendirme Ltd. Şti. was appointed by "Zlatar Mramorak Doo" to perform the verification of the BCR project activity titled "Mramorak 1&2 Bundled Biogas Power Plants" in "Serbia", through a contract, dated 29/11/2023. The objective of this verification activity is to have an independent third party for the assessment of the project design and to ensure a thorough assessment of the proposed project activity against the applicable BCR and CDM requirements. The scope of the verification is the independent and objective review of the BCR Project Document Template (PD). The purpose of the verification is its usage during the registration process as part of the BCR project cycle. Therefore, Re Carbon Ltd. cannot be held liable by any party for decisions made or not made based on the verification opinion that goes beyond that purpose.

Re Carbon Ltd. hereby confirms that the proposed project activity "Mramorak 1&2 Bundled Biogas Power Plants" in "Serbia", applied all relevant EB-guidance as the selected baseline and monitoring methodologies and the associated methodological tools have been applied correctly. Verification of the GHG statement was conducted in accordance with ISO 14064-3; 2019. The total emission reductions from the project are estimated to be on the average 75,655 tCO2e per year over the selected 7-year crediting period.

Verification Team's conclusion on the project's contribution to sustainable development objectives are:

- SDG 7
- SDG 8
- SDG13

Re-carbon ltd. as a CAB confirms the information which is given above.







dunal.

Rohit BADAYA	Sandeep Kanda	Ms. Esin Tunalı
BCR verification	ITR	CMD
Team Leader		
22/11/2024	22/11/2024	22/11/2024

10 Annex



Annex 1. Competence of team members and technical reviewers

Mr. Rohit Badaya holds a Master's degree in "Nanotechnology" and a Bachelor's degree in "Pulp and Paper Engineering" from the Indian Institute of Technology Roorkee (IIT Roorkee). He is also an Energy Auditor, certified by the Bureau of Energy Efficiency, Ministry of Power, Govt. of India. Rohit has more than 14 years of work experience in the area of Climate Change (CDM, GS, VCS, GCC) and has worked for various DOEs/VVBs in the capacity of Team Leader, Validator/Verifier, Technical Expert, ITR, Manager (Technical & Certification) and Quality Manager. Within the context of CDM/GS/VCS/GCC, Rohit has a record of accomplishment of more than 200 projects as a Team Leader, Validator, Verifier, Technical Expert and Technical Reviewer. He is well versed with various local regulations related to CDM/GS/VCS/ GCC projects, located in countries in Asia, Africa, Middle East, Asia Pacific as well as in Türkiye. With re-carbon, Rohit is a free-lance Team Leader, ITR and an expert in Project-Level Group 1 - GHG Project Types: Renewable Energy Production & Energy Efficiency Improvements // Project-Level Group 5 - GHG Project Types: Methane collection & destruction as well as Livestock and other anaerobic digester operations // Project-Level Group 6 - GHG Project Types: Capture & destruction of Landfill gas & Capture & use of Landfill gas & Avoidance of methane production in wastewater treatment. Rohit is also a Regional Expert for Bhutan, Brazil, Cambodia, Chile, Democratic Republic of Congo, Egypt, El Salvador, Ethiopia, The Gambia, India, Indonesia, Iran, Kenya, Madagascar, Malawi, Mauritius, Mexico, Morocco, Myanmar, Nepal, Nicaragua, Nigeria, Papua New Guinea (PNG), Republic of Madagascar, Senegal, South Africa, Sri Lanka, Thailand, Türkiye, Uganda, Vietnam and Zambia.

Dr. Abdulkadir Bektaş holds an Associate Professor degree in "Energy Systems Engineering" and is a UNFCCC-appointed "Agriculture Expert". With re-carbon, Abdulkadir is a free-lance Agriculture Expert. Abdulkadir is also a Regional Expert for Türkiye, Czechia, Portugal, Australia, Hungary, Denmark, and Ukraine.

Ms. Selen Cilasun holds a B.Sc. and a M.Sc. Degree in "Bioengineering". With recarbon, Selen is an internal Team Leader, a Technical Expert for Project-Level Group 1 - GHG Project Type: Renewable Energy Production and a Regional Expert for Türkiye. Selen is also a Trainee for Project-Level Group 5 - GHG Project Types: Methane collection & destruction as well as Livestock and other anaerobic digester operations // Project-Level Group 6 - GHG Project Types: Capture & destruction



of Landfill gas & Capture & use of Landfill gas & Avoidance of methane production in wastewater treatment.

Mr. Sandeep Kanda holds a Bachelor's degree in "Mechanical Engineering", a Master's degree in "Energy Systems Engineering" from the Indian Institute of Technology/Bombay and a Post Graduate Diploma in "Industrial Safety & Environmental Management" from the National Institute of Industrial Engineering in India. He has over 20 years of professional experience working in the area of energy and environmental management, capacity building, climate change adaptation and mitigation activities, sustainability, auditing and product development. Sandeep has been involved in various capacities in the development and impact assessment of more than 500 climate change mitigation projects and programmatic activities worldwide, covering a range of sectoral scopes, such as Energy industries (renewable-/non-renewable), Energy distribution, Energy demand, Manufacturing industries, Chemical industries, Transport, Metal production, Waste handling & disposal and Agriculture. With re-carbon, Sandeep is a free-lance Team Leader, ITR and a Project-Level Group 1, 5 and 6 Expert. Sandeep is also a Regional Expert for China, India, Indonesia, Mexico, Nepal, Philippines, Tanzania, Thailand, Türkiye and Vietnam.

Mr. Dragomir Vasić holds a M.Sc. degree in "Electrical Engineering" from the University of Novi Sad. With re-carbon, Dragomir is a free-lance Regional Expert for Bosnia and Herzegovina, Croatia, Kosovo, Montenegro, North Macedonia, Serbia and Slovenia.



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1	Renewable Energy Production	1.2	25.10.2021	25.10.2021	25 10 2021	25 10 2021	25.10.2021	25 10 2021	25 10 2021	25 10 2021	25 10 2021	25.10.2021					25.10.2021
1	Energy Efficiency Improvements	3.1	25 10 2021	25 10 2021	25 10 2021	25 10 2021	25 10 2021	25.10.2021	25.10.2021	25.10.2021	26.10.2021	25.10.2021					20.10.2021
5	Methane Collection &	19.2	25 10 2021	25.10.2021	25 10 2021	25 10 2021	25.10.2021	25.10.2021	25.10.2021	25.10.2021	25.10.2021	25.10.2021					
5	Livestock & other anaerobic digester operations	13.2	25.10.2021	25.10.2021	25 10 2021	25.10.2021	25.10.2021	25 10 2021	25 10 2021	25 10 2021	25 10.2021	25 10 2021					26.10.2021
5	Agricultural methane emission reduction	16.1															
5	Agricultural carbon emission reduction	15.1															
6	Capture & destruction of landfill	13.1	25.10.2021	25.10.2021	25 10 2021	25.10.2021	25.10.2021	25 10 2021	25 10 2021	25.10.2021	25.10.2021	25.10.2021					26.10.2021
6	Capture & use of landfill gas	19.1	25.10.2021	25.10.2021	25 10 2021	25.10.2021	25.10.2021	25.10.2021	25 10 2021	25.10.2021	25.10.2021	25.10.2021					25.10.2021
6	Avoidance of methane production in wastewater	12.1	25 10 2021	25 10 2021	25 10 2021	25 10 2021	25 10 2021	25.10.2021	25.10.2021	25.10.2021	25.10.2021	25.10.2021					26.10.2021
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1	Ronewable Energy Production	1.2	02.02.2023	02.02.2023	62.02.2023	02.02.2023	02.02.2023	02.02.2023	02 02 2023	02.02.2023	02.02.2023	02.02.2023	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
1	Energy Efficiency Improvements	9.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02 02.2023	02 02 2023	02.02.2023	02.02.2023	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Methane Collection & destruction	13.2	02.02.2023	02.02.2023	02.02.2023	02.02.2023	62.02.2023	02.02.2023	02 02 2023	02.02.2023	02.02.2023	02.02.2023	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Livestock & other anaerobic digester operations	18.2	02.02.2023	02 02 2023	02 02 2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	07.07 2022	07 07 2022	07 07 2022	87.07 2022	07.07.2022
5	Agricultural methane emission reduction	15.2															
5	Agricultural carbon emission reduction	28.2															
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gas

Capture & use of landfill gas

Avoidance of methane prod

COUNTRY EXPERTISE:

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A.C.										as a co quali	M onfirmat fication	s. Se ion of c require	ompliance w	asun rith re-car ne followin	bon's int g positic	ernal ns:	
nis App anted	ointment Certificate	is 3.2024 by						_									
eneral	n Johannes Manager)		G	old	Star	Idar	ď		V	Verified Standard	Carbon			CER	CARE	BONC	2
PROJECT LEVEL GROUP	GHG PROJECT TYPE Expertise	EQUIVALENT ODME IZCHNISCAL AREA EXPERTISE TRIOTEUR SHIP	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Renewable Energy Production	12	10.01.2023	10.01.2025	10 11 2023		15,10.2022	27.02.2023	27 02 2023	10 11 2023		15, 10, 20;	2				15.10.2022
1	Energy Efficiency Improvements	3.2															
5	Methane Collection & destruction	13.2	Traince	Traince	Traince		Traince	Trainee	Trance			Trainee					
5	Livestock & other anaerobic digester operations	13.2	Trainee	Trainee	Traince		Trainee	Traince	Traince			Traince					
•	Agricultural methane emission reduction	15.1										-					
6	emission reduction Capture & destruction of landfill	7.8.1	Trainee	Traince	Traince		Trainee	Traince	Trainco			Traince					
6	Capture & use of landfill gas	28.1	Trainee	Trainee	Traince		Trainee	Traince	Traince			Traince					
6	Avoidance of methane production in wastewater treatment	13.1	Traince	Traince	Traince		Traince	Trainee	Transe			Trainee					
	1	SDS Oriteria:	10.01.2023	10.01.2023	1011.2023		15.10.2022	27.02.2023	27.02.2023	10.11.2023		10.10.20	2				15.10.2022
				ICF	Inte Car Reg	rnation bon istry	al		Bio	Car	bon						
PROJECT LEVEL OROUP	GHG PROJECT TYPE EXPERTISE	EQUIVALENT COMPTROMUDAL ASEA EXPOSITESE Colorwice only	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT	VERIFIER	VALIDATOR	TEAM LEADER	ITR	EXPERT
1	Ronewable Energy Production	1.2	27.02.2023	27.02.2023	10.11.2023		15.10.2022	27.02.2023	27 52 2023	10.11.2024		15.10.20	2 27.02.2023	27.02.2023	10.11.2023		15.10.2022
1	Energy Efficiency Improvements	2.1															
5	Methane Collection & destruction	13.2	Trainee	Trainee	Trainee		Trainee						Trainee	Trainee	Transe		Trainee
5	Livestock & other anaerobic digester operations	18.2	Traince	Trainco	Trainco		Traince						Traince	Trainco	Trainco		Trainco
5	Agricultural methane emission reduction	15.2															
5	Agricultural carbon emission reduction	28.2															
6	Capture & destruction of landfill gas	13.1	Traince	Trainco	Traince		Traince						Traince	Traince	Traince		Traince
6	Capture & use of landfill gas	23.2	Traince	Traince	Traince		Traince						Traince	Traince	Traince		Traince
8	Avoidance of methane production in wastewater treatment	18.2	Trainee	Traisee	Traisee		Tranee						Trainee	Тганее	Trainee		Trainee
			1000 CO. 200 CO. 200 CO.	 CL2+T2-CC2-CC2-CC 			1 45 40 0000	000000000000000000000000000000000000000		000000000000000000000000000000000000000		1		100000000000000000000000000000000000000			A DESCRIPTION OF

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Within the	e scope and in stric	t accordance	to the appo	ointments in	dicated be	low, the be	arer may:										
Parti Take Bring	icipate in assessme the appointed posit g specific expertise	nts conducte tions within a to assessme	d by re-cari nd outside o nts	bon Ltd. of an assess	sment tean	1											
This Cert for the qu There is r suspende reasons a	ificate of Appointme ualification and app no defined validity p ad or cancelled at a as defined above.	ent is valid un ointment and period for this ny time, as a	less there a /or the per Certificate result of pe	are changes sonnel's wo . However, 1 rformance :	s in the rela rk agreem The Certific assessmer	ated requir ent is term ate may be nts and/or	ements inated. e updated, other				This Ce	rtificate o	f Appointn	nent is giv	en to		
11.											Mr.	Sand	eep K	anda			
C. State										as a co qual	onfirmation i	on of comp requireme	pliance wi ents for th	th re-cart e followin	oon's inte g positio	ernal ns:	
Christiar General	n Johannes Manager)		0		Star	Idaro	ď	-	V	Verified Standard	Carbon			CER	ARE	BONC	2
PROJECT	GHG PROJECT TYPE EXPERTISE	EQUIVALENT ODM: TECHNICAL	VERIFIER	VALIDATOR	TEAM		EXPERT	VERIFIER	VALIDATOR	TEAM		EXPERT	VERIFIER		TEAM		EXPERT
GROUP		TRIGCHEUR ONIS								LEADER					LEADER		
GROUP	Renewable Energy Production	ARCAEVPERTIES reforment only	08.02.2022	06.02.2022	06 07 2022	08.02.2022	08.02.2022	06 03 2022	08 02 2022	08 02 2022	OB 07 2022	08.02.2022			LEADER		
GROUP	Renewable Energy Production Energy Efficiency Improvements	ARCAECOPERTIES references only 1.2 8.1	08.02.2022 08.02.2022	08.02.2022 08.02.2022	06 02 2022 06 02 2022	08.02.2022	08.02.2002	06.03.2022 08.02.2022	08 02 2022	08 02 2022	06.02 2022	08.02.2522 08.02.2522			LEADER		
1 5	Renewable Energy Production Energy Efficiency Improvements Methane Collection & destruction	8.1 18.2	08.02.2022 08.02.2022 08.02.2022	06.02.2022 06.02.2022 06.02.2022	06 07 2022 06 07 2022 06 07 2022	08 02 2022 08 02 2022 08 02 2022	08.02.2022 08.02.2022 08.02.2022	06.02.2022 08.02.2022 08.02.2022	08 02 2022 08 02 2022 08 02 2022	08 02 2022 08 02 2022	06.02 2022 06.02 2022 08.02 2022	08.02.2022 08.02.2022 08.02.2022					
1 1 5 5	Renewable Energy Production Energy Efficiency Improvements Methane Collection & destruction Livestock fr other anaerobic digester operations	ARCALUMENTER reformed only 1.2 3.1 13.2 13.2 13.2	08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.2022 06.02.2022 06.02.2022 08.02.2022	06 02 2022 06 02 2022 06 02 2022 06 02 2022	08 02 2022 08 02 2022 08 02 2022 06 02 2022	08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02 2022 08.02 2022 08.02 2022 08.02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022	06.02.2022 06.02.2022 06.02.2022 06.02.2022	08.02.2022 08.02.2022 08.02.2022 08.02.2022					
1 1 5 5 5	Renewable Energy Production Energy Efficiency Improvements Methane Oblection & destruction Livestock to other anarchic digneter operations Agricultural methane emission reduction	ARGACUPANTEE Trijurante anto 1.2 3.1 13.2 13.2 13.2 13.2 13.2 13.2	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.2022 06.02.2022 06.02.2022 06.02.2022 08.02.2022	06 07 2022 06 07 2022 06 07 2022 06 02 2022 08 02 2022	08.02.2022 08.02.2022 08.02.2022 06.02.2022	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	08.02 2022 08.02 2022 08.02 2022 08.02 2022 08.02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	06.03 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022					
1 1 5 5 5 5	Renewable Energy Production Energy Efficiency Improvements Methane Collection & destruction Livestock to other anaronia dignater operations Agricultural methane emission reduction Agricultural carbon	ARALADVATINE vigrams and 1.2 3.1 15.2 15.1 15.1	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.2022 06.02.2022 06.02.2022 08.02.2022 08.02.2022 08.02.2022	06 07 2022 06 07 2022 06 07 2022 08 07 2022 08 07 2022 08 02 2022 08 02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 06 02 2022 06 02 2022	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02 2022 08.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	D6 02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022	08.02.2022 98.02.2022 98.02.2022 98.02.2022 98.02.2022 98.02.2022 98.02.2022					
1 1 5 5 5 6	Revenues of the second	ARALAVANINE Viveness and 1.2 3.1 13.2 13.2 13.2 13.2 15.3 15.1 18.1	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.022 06.02.022 06.02.022 06.02.022 06.02.022 06.02.022 06.02.022	06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022	0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022	08.02.2022 09.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022					
1 1 5 5 5 6 8	Renewable Energy Production Energy Efficiency Improvements Methana Collection & destinution Unvestork to other operations operations destinations de	Add & Workship Conversion 2022 2.2 8.1 1.5.2 1.5.3 1.5.1 1.5.1 1.5.1 1.5.1 1.5.1 1.5.1	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.0022 06.02.0022 06.02.0022 06.02.0022 06.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022	06 07 2022 06 07 2022 06 07 2022 08 07 2022 08 07 2022 08 02 2022 08 02 2022 08 02 2022 06 02 2022	08.62 2022 08.62 2022 08.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022 06.62 2022	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	66.07.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.03.2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	CRACK 08 02 2022 08	06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022	06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022					
1 1 5 5 5 6 8 8 8	Renewable Energy Production Energy Efficiency Improvements Methane Observior destruction Livestock to chore anaerobii digoste- operations emission reduction Regroutural energy emission reduction destruction of landfill gas Avoidance of landfill gas Avoidance of landfill gas	Add 2004011 2004002 420 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.0022 06.02.0022 06.02.0022 06.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022 08.02.0022	66 02 2022 66 02 2022 66 02 2022 66 02 2022 96 02 2022 66 02 2022 66 02 2022 66 02 2022	0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022	08.022022 08.022022 08.022022 08.022022 08.022022 08.022022 08.022022 08.022022	66.02 2022 66.02 2022 66.02 2022 66.02 2022 66.02 2022 66.02 2022 66.02 2022 66.03 2022 66.03 2022 66.03 2022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	CEACCR 08 02 2022 08	06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022 06.02 2022	06.02.2022 09.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022					
1 1 5 5 5 5 6 8 8	Renewable Energy Production Improvements Methane Odlostion & destruction Livestock for other anaarchik digeneti- eperation Regroutized methane emission reduction Regroutized methane emission reduction Cepture & description Landfill ges Avoidance of Landfill ges Havidance for the state and the state of Landfill ges	2022 EVentse 202 202 202 202 202 202 202 20	08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.0029 06.02.0029 06.02.0029 06.02.0029 06.02.0029 06.02.0029 06.02.0022 06.02.0022 06.02.0022 06.02.0029 06.02.0029 06.02.0029	66 02 2022 66 02 2022 66 02 2022 66 02 2022 76 02 2022 76 02 2022 76 02 2022 76 02 2022 76 02 2022 76 02 2022	0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022 0a 02 2022	08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002 08.02.2002	68.02 2022 08.02 2022 08.02 2022 08.02 2022 08.02 2022 08.02 2022 08.02 2022 08.03 2022 08.03 2022 08.03 2022 08.03 2022	08:02:0021 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022 08:02:0022	08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022 08 02 2022	06.02.2027 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022 08.02.2022	06.02.2022 09.02.2022 09.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 06.02.2022 07.02.2022 08.02.2022					

PROJECT LEVEL OROUP	GHG PROJECT TYPE EXPERTISE	EQUIDALENT COMPTECHNOLAL ANEA EXPENTESE CANTON UTY	VERIFIER	VALIDATOR	TEAM LEADER		EXPERT	VERIFIER	VALIDATOR	TEAM LEADER		EXPER		VERIFIER	VALIDATOR	TEAM LEADER		EXPERT
1	Ronewable Energy Production	12	02.02.2023	02.02.2023	62.02.2023	02.02.2023	02.02.2023	02.02.2023	62.62.2023	02 02 2023	02.02.2023	02.02.20	23	67.07.2022	07.07.2022	07 07 2022	67.07.2022	07.07.2022
1	Energy Efficiency Improvements	9.1	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02 02 2023	02.02.2023	02.02.20	23	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Methane Collection & destruction	13.2	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.25	23	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Livestock & other anaerobic digester operations	18.2	02.02.2023	02.02.2023	02 02 2023	02.02.2023	02.02.2023	02.02.2023	02.02,2023	02.02.2023	02.02.2023	02.02.2	123	07.07.2022	07 07 2022	07 07 2022	07 07 2022	07.07.2022
5	Agricultural methane emission reduction	25.2	02.02.2023	02 02 2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2	123	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
5	Agricultural carbon emission reduction	28.2	02.02.2023	02 52 2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02.02.2023	02 02 2023	02.02.2	123	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
6	Capture & destruction of landfill gas	23.2	02.02.2023	02.02.2023	62 02 2023	02.02.2023	02.02.2023	62.02.2023	02.02.2023	02.02.2023	02 02 2023	02.02.2	23	07.07.2022	07 07 2022	07 07 2022	07 07 2022	07.07.2022
6	Capture & use of landfill gas	23.2	02.02.2023	02 02 2023	02 02 2023	02.02.2023	02.02.2023	62.02.2023	62.02.2023	02.02.2023	02.02.2023	02.02.20	23	07.07.2022	07 07 2022	07 07 2022	07 07 2022	07 07 2022
8	Avoidance of methane production in wastewater treatment	13.1	02.02.2023	02.02.2023	62.02.2023	02.02.2023	02.02.2023	02.02.2023	52 02 2023	02.02.2023	02 02 2023	02.02.25	23	07.07.2022	07.07.2022	07.07.2022	07.07.2022	07.07.2022
		SDS Criteria:	02.02.2023	02.02.2025	62.02.2023	02.02.2023	02.02.2025	82.02.2025	02.02.2023	02.02.2023	02.02.2023	02.02.2	123	07.07.2022	07.07.2022	07.07.2022	07 07.2022	07.07.2022
												_	F4	Tranee	Trainee	Traince	Trainez	Trainee
COUN	ITRY EXPERTIS	SE:	China India	Indonesia M	levice Philip	oiner Tear	nois Thailand	Türkiye Viete	am for all abo	a listed CH	CPC+		31	Traince	Trainco	Traince	Traineo	Trainco
			Grinia, India	, muunesia, iv	exico, Philip	pines, Tanza	ana, mailand,	, runkiye, Vietni	ann fur all abo	re listed GH	90705		OCHISIA	-	-	Traince	Transa	Territory

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Annex 2. Clarification requests, corrective action requests and forward action requests

Finding ID	1	Type finding	of	Corrective action	Date 27/02/2024
Section No.					
Cover page					
Description	n of finding				
MR version	is not latest	version.			
Project hol	der respons	se (01/03/2022	;)		
MR templat accordingly	e ver 1.1 is ı	used in the pr	oject	MR report. Hence th	e MR report is revised
Documento	ation provid	led by the pr	ojec	t holder	
MR					
CAB assess	ment (04/0	4/2024)			
Review-1: Ok, closed (Version has	been corrected	d).		

Finding ID	2	Type finding	of	Corrective action	Date 27/02/2024



Section No.

1

Description of finding

The version 1.4 (dated 24/06/2023) has been available on the bio carbon website.

Project holder response (01/03/2024)

On the cover page, the PDD of the project activity is indicated in terms of version and dd/mm/yyyy. After the ReCarbon validation, BCR also sent comments to the project owner, therefore the PDD was revised from version 1.4 to version 1.5. The latest version of the PDD is version 1.5, dated 24/08/2023.

PP.Response: Final_BCR-PD_937 Mramorak Biogas_v1.5_24-08-2023.pdf is provided.

Documentation provided by the project holder

PD

CAB assessment (04/04/2024)

Review-1:

PDD is version 1.5, dated 24/08/2022 is not provided.

Review-2:

OK, closed.

Finding ID	3	Type of finding	of	Corrective action	Date



	27/02/2024							
Section No.								
1	1							
Description of finding								
Quantification Period is not "MM/DD/YYYY to MM/DD/YYYY" fo	rmat.							
Project holder response (01/03/2024)								
Quantification period on the cover page is corrected as per given da to 06/23/2027)	te format (06/24/2020							
Documentation provided by the project holder								
MR								
CAB assessment (04/04/2024)								
OK, closed (Formats are corrected).								

Finding ID	4	Type finding	of	Corrective action	Date 27/02/2024		
Section No.	Section No.						
1							
Description of finding							



*a)*During the site visit food waste sources defined differently. However, it is not matched with MR.

b)*Distances of food waste sources are missing.*

c)Annual electricity generation seems incorrect in Section 1. It is not matched with Excel Sheet.

d)*Supporting documents are missing for Section 1 of the MR.*

e)Footnote-2 does not work.

f)

f)Section 1 of MR, "Consequently, the project results in 23,601 tCO2 emission reduction annually, and 161,587 tCO2 emission reduction for the first crediting period". However 23,601 tCO2 does not match with the registered PDD.

Project holder response (01/03/2024)

a) MR report is revised as inncluding the wastes sources as the food waste subcontractors location from where the food wastes come to the project activity. Eko Maber, Eko Smart and Beotak subcontractor locations are the sources of the food wastes.

b) Distances of food wastes are indicated in the MR,Section 1.4, Section 2 and Section 15.2.2 DAFfood parameter. Emission reduction excel sheet is revised accordingly.

c) Section 1, annual electricitry generation 15.500 MWh, is taken from the PDD to indicate the baseline estimated electricity generation. This confusion is clarified in Section by rewriting the sentence. Achieved electricity generation is indicated in Section 1, which is 49,191.63 MWh (for the first monitoring period).

d) Supporting documents for Section 1 are provided, such as licenses, environmental permits, etc.

e) At the time of writing the PDD, the link was working (Ministry of Mining and Energy, https://mre.gov.rs/sites/default/files/registri/RegistarPovlasPro12-8-2022.html.). But since electricity generation license proof documents are provided, this link not required. The link was provided as an extra information. Please see the "o1_ElectricityGenerationLicenses" folder.

The sentence is revised, the value of 23,601 is corrected as 23,083 tCO2.



PP. response: The distances are measured by the Google Earth Pro program. The distance can be seen by doing the following steps:

1) Right click on the red line that shows the road to the project site from the food supplier,

- 2) Click on the properties
- 3) Click on the measurements tab
- *4) please select the km*
- 5) then the distance can be seen.

Documentation provided by the project holder

MR, ER Excel Sheet, Supporting documents

CAB assessment (04/04/2024)

Review-1:

- a) *References are missing about distance.*
- b) *Please see a*.
- c) *Ok, closed (revised).*
- d) *OK*, closed (supporting documents are provided).
- e) *OK, closed.*
- f) OK, closed (revised).

Review-2:

a,b)OK, closed.

Finding ID	5	Type finding	of	Corrective action	Date 27/02/2024
Section No.					



Description of finding

1

- a) Coordinate references are missing in Section 1.4. of MR.
- *b)* Food waste sources information are missing in Section 1.4. of MR.
- c) Distance between waste areas and farm didn't mentioned with detail in MR

Project holder response (01/03/2024)

a) Coordinates are provided for the waste food soures in Section 1.4, and google earth picture is added showing the waste food sources. In line with that, relevant kmz file is provided. BCR_Mramorak_KMZ_28022024.

b) Food waste source information is indicated in Section 1.4.

c) Food waste source distances from the project site is indicated in MR.

PP response: The following sentence is added as a foonote to Section 1.4.: "Food waste source companies' addresses are indicated in the contracts made between the project owner and the food suppliers (Beotok doo, Eko Maber doo and Eko Smart doo). Hence the coordinates given in this table are reflects the address of the companies. Please see the kmz file of the project activity."

The indicated contracts are already provided to the DoE.

Documentation provided by the project holder

MR

CAB assessment (04/04/2024)

Review-1:

- a) Still references are missing in the MR.
- *b)* Ok, closed (Food waste sources are added).



c) Ok, closed (Added in Section 1.4 13th page).

Finding ID	6	Type finding	of	Corrective action	Date 27/02/2024		
Section No.							
1							
Description	n of finding						
Flare inform	ation is miss	sing in Section	1.5.				
Project hol	der respons	se (01/03/2024)				
As per the N flare inform "The project through mat	<i>AR version 1.</i> ation is indi t activity has intenance."	1 template, the cated in Sectio s a flare cham	e cor on. F ber,	ntent moved from Sect ollowing sentence is a which is only used in	ion 1 to Section 1.5, and dded to the Section 1.5: case of digesters goes		
Flare inform	ation is also	given in Sectio	on 1.	5, Table 1 and process f	flow diagram figure.		
		1 11 .1	•	. 7 . 7 7			
Documentation provided by the project holder							
MR							
CAB assessment (04/04/2024)							
Review-1: OK, closed (Review-1: OK, closed (Flare information added).						



Finding ID	7	Type finding	of	Corrective action	Date 27/02/2024		
Section No.							
1							
Description	n of finding						
CAR-7 Supporting emission rea	CAR-7 Supporting documents are missing for ER Calculation Excel Sheet. Therefore GHG emission reductions couldn't be confirmed.						
Project hol	der respons	se (01/03/2024	(
Supporting of	locuments a	re provided.					
Documentation provided by the project holder							
Supporting documents							
<i>CAB</i> assessment (04/04/2024)							
OK, Closed	OK, Closed						

Finding	8	Туре	of	Corrective action	Date
ID		finding			27/02/2024



Section No.								
1								
Description of finding								
CAR-8								
Brief description of the installed technology and equipment have not been provided under Section 1.5 of the MR.								
Project holder response (01/03/2024)								
Section 1.5 is revised and applied technology is indicated.								
Documentation provided by the project holder								
MR								
<i>CAB</i> assessment (04/04/2024)								
Review-1:								
Ok, closed (applied technology has been explained).								

Finding ID	9	Type finding	of	Corrective action	Date 27/02/2024
Section No.	,				



Description of finding

CAR-9

1

History table is missing (including construction, commissioning, continued operation periods, etc) in Section 1.5 of MR.

Project holder response (01/03/2024)

PP: response: History table is indicated.

Documentation provided by the project holder

MR

CAB assessment (04/04/2024)

Ok, closed (History table has been added).

Finding ID	10	Type finding	of	Corrective action	Date		
					27/02/2024		
Section No.							
2	2						
Description of finding							
Applicability conditions for tools and methodologies are missing.							



Project holder response (01/03/2024)

Applicability conditions of tools and methodologies are indicated in Section 2.

Documentation provided by the project holder

MR

CAB assessment (04/04/2024)

OK, closed (Applicability conditions are indicated.)

Finding ID	11	Type finding	of	Corrective action	Date 27/02/2024	
Section No.						
2						
Description	n of finding					
A signed de registered u	claration fro nder any oth	om the project er greenhouse	t owi gas	ner is required stating program or whether re	whether the project is gistration is requested.	
Project hol	der respons	se (01/03/2024	(f)			
Letter is provided, Letters_NoGHGprogram_NoAid.pdf						
Documentation provided by the project holder						
Declaration						



CAB assessment (04/04/2024)

Review-1:

Ok, closed (Declaration has been provided).

Finding ID	12	Type finding	of	Corrective action	Date 27/02/2024
Section No).				
4					
Descriptio	on of finding	1			
CAR-12					
a)Suppotin	g/evidence d	ocuments are	missi	ng for SDG Goals.	
<i>b</i>)For SDG 8, number of employee differently mentioned during the site visit. There is inconsistency between MR.					
Project holder response (01/03/2024)					
a) SDG 7, electricity generation proof documents are provided. SDG 8, employment records of Zlatar compoany is provided, oyt which 9 people is working at the project activity, remaining works at the farm.					

b) Number of employment is corrected in the MR as 9, as it is stated by the project owner during the first monitoring period site visit.

Documentation provided by the project holder



Letter

CAB assessment (04/04/2024)

Review-1:

a)Ok, closed (Proofs are provided)

b) Ok, closed (corrected).

Finding ID	13	Type finding	of	Corrective action	Date 27/02/2024			
Section No.								
5.								
Description of finding								
CAR-13								
No official document has been sent regarding which company is the parent company and which company is the subsidiary company.								
Project holder response (01/03/2024)								
The sentence in section is revised "BioGold Energy Doo is owned by the Zlatar Maramorak Doo company, which is owned by the Almex Doo.". Proof documents are provided under the folder of "02_ProjectOwnership_CreditRights"								

Documentation provided by the project holder

SDG Tool, MR



CAB assessment (04/04/2024)

Review-1:

Ok, closed (Proof has been provided)

Finding ID	14	Type finding	of	Corrective action	Date 27/02/2024			
Section No.								
7								
Description of finding								
CAR-14								
The agreement mentioned in Section 7 is not provided to VVB.								
Project holder response (01/03/2024)								
The agreement is provided, BioGold_to_ZlatarMramorakDoo_CarboCreditRights.pdf under the folder of "o2_ProjectOwnership_CreditRights"								
Documentation provided by the project holder								
MR, Supporting documents, ER Calculation Excel								
CAB assessment (04/04/2024)								
Review-1:								


Ok, closed (Proofs are provided)

Finding ID	15	Type finding	of	Corrective action	Date 27/02/2024
Section No.					
8					
Description	n of finding				
"BCR Tool. ((NNH) ." is n	ot used. No N	et Ho	arm Environmental an	d Social Safeguards
Project hol	der respons	se (01/03/2024	(
Section 8 is the BCR too	revised, add l No Net Hai	ed few paragr m Environme	aphs ental	by taking into conside and Social Safeguards.	eration requirements of
Documentation provided by the project holder					
MR, Supporting documents					
CAB assessment (04/04/2024)					
Review-1:					
OK, closed (BCR Tool (NNH) has been used).					



Finding ID	16	Type finding	of	Corrective action	Date 27/02/2024		
Section No.							
9							
Description	n of finding						
CAR-16 Number of le	CAR-16 Number of local employees seems incorrect based on the discussion during site visit.						
Project hole	der respons	se (01/03/2024	(
Number of w	vorking peop	le is corrected	l as g	in the MR report.			
Documento	Documentation provided by the project holder						
MR, records							
CAB assessment (04/04/2024)							
Review-1: OK, closed (Number of local employees corrected).							

Finding ID	17	Type finding	of	Corrective action	Date
		5 5			27/02/2024



Section No.
9
Description of finding
"BCR Tool. No Net Harm Environmental and Social Safeguards (NNH) ¹⁵ " is not used
Project holder response (01/03/2024)
Section 9 is revised, and a paragraph is added to reflect the requirement of the BCR tool No Net Harm Environmental and Social Safeguards.
Documentation provided by the project holder
MR
CAB assessment (04/04/2024)
Review-1:
OK, closed (BCR Tool (NNH) has been used).

Finding ID	18	Type finding	of	Corrective action	Date 27/02/2024	
Section No.						
1						

¹⁵ Available in https://biocarbonstandard.com/en/no-net-harm/



Description of finding

CAR-18

Separate start dates of Mramorak 1 and Mramorak Power plant are missing.

Project holder response (01/03/2024)

MR Section 1 is revised, and separate start dates of Mramorak 1 and Mramorak 2 are indicated.

Documentation provided by the project holder

MR

CAB assessment (04/04/2024)

Review-1:

OK, closed (added on page 17).

Finding ID	19	Type finding	of	Corrective action	Date 27/02/2024	
Section No.						
16						
Description	Description of finding					
CAR-19						
The following statement is available in the MR.						
All these ex-post parameters given in Section 16.1 are already measured and recorded on a routine base within the organizational process of the project owner.						



However it is not clearly indicated whether this Section 16.1 is from the PDD. *Project holder response (01/03/2024)* This sentence is revised as "As it is stated in the project activity PDD report Version 1.5, all these ex-post parameters given in Section 16.1 are already measured and recorded on a routine base within the organizational process of the project owner." PP response: Section 16.1 is corrected as 15.2. In Section 15.2.2, parameters to be monitored, parameters collection way and frequency are indicayed in each table. For example, number of cows per year, N_{LT,y}, is indicated in Section 15.2.2 as "Counting the number of cattle at the farms (Mramorak and Stari Tamis farms) is part of the business of the project owner. Project proponent has daily records of animal stocks." Another example is $W_{i,\infty}$ Section 15.2.2 indicates the Project proponents log book records that show the municipal organic wastes accepted by the Mramoraki&2. And data collection frequency is indicated as continuesly. Hence, only the following sentence is indicated in Section 15.2.2.: "Monitoring of these ex-post parameters regarding the monitoring frequency and source of data etc., are indicated in the tables in Section 15.2." Documentation provided by the project holder MR, ER Calcualtion Excel Sheet, Supporting documents CAB assessment (04/04/2024) Review-1: *Still, it is not clear. What the routine is and its frequency are missing.*

Review-2:

Ok, Closed.

Finding 20	Type of	Corrective action	Date
ID	finding		27/02/2024



Section No.

7

Description of finding

CAR-20

During the site visit, it was mentioned that the control authority of some monitoring equipment does not belong to the project owner, but belongs to the manufacturer companies. Information about the equipment mentioned in this section and which company has control authority is missing. Supporting documents should also be provided.

Project holder response (01/03/2024)

The gas engine unit is maintaned by the AB Engine. The maintanence contract is provided under the folder of "12_ProjectMaintenanceContracts".

Power meters at the subtation are maintaned by the EPS Distribucija doo, as per the Serbian energy market system, there is no specific document that shows that these power meters are maintained by the EPS Distribucija doo, it is just the way business working in Serbia.

PP.response: There is no relevant/applicable regulation or law in Serbia regarding the gas engine.

Documentation provided by the project holder

MR, records

CAB assessment (04/04/2024)

Review-1:

Engine contract is suitable. However, refence of Serbian law is missing, if there is.

Review-2:



OK, closed.

Finding ID	21	Type finding	of	Corrective action	Date 27/02/2024	
Section No.						
15.						
Description	n of finding					
CAR-21						
Supporting c	locuments a	re missing for	sect	ion 15.		
Project hole	der respons	se (01/03/2024	í,)			
Supporting documents are provided in the folders, including o8_Calibration, 10_Mramorak_TechnicalSpecs_others, 11-2-EmploymentRecords2020-2023. "MramorakMR_RawData" folder is already provided in the first submission of the documents to ReCarbon. This folder contains hardocopy electricity generation data too, other data is in excel format. For those excel format data, sample proof documents are provided in the folder "09_GHG_ER_supporting_documents". Missing Decemeber electricity generation data is provided in this round too within the folder of "09_GHG_ER_supporting_documents						
Documentation provided by the project holder						
Supporting documents						
CAB assessment (04/04/2024)						
Review-1:						



OK, closed (supporting documents have been provided).

Finding ID	22	Type o finding	of	Corrective action	Date 27/02/2024

Section No.

Indicate the section number of the verification report to which each CL, CAR or FAR corresponds.

Description of finding

CAR-22

_

During the site visit, it was mentioned that the control authority of some monitoring equipment does not belong to the project owner, but belongs to the manufacturer companies. Information about the equipment mentioned in this section and which company has control authority is missing. Supporting documents should also be provided.

Project holder response (01/03/2024)

The gas engine unit is maintaned by the AB Engine. The maintanence contract is provided under the folder of "12_ProjectMaintenanceContracts".

Power meters at the subtation are maintaned by the EPS Distribucija doo, as per the Serbian energy market system, there is no specific document that shows that these power meters are maintained by the EPS Distribucija doo, it is just the way business working in Serbia.

PP.response: There is no relevant/applicable regulation or law in Serbia regarding the gas engine.

Documentation provided by the project holder



CAB assessment (04/04/2024)

Review-1:

Please see Review-1 of CAR-18

Review-2:

OK, Closed.

Finding ID	23	Type finding	of	Corrective action	Date 27/02/2024
Section No.					
16					
Descriptior	n of finding				
CAR-23					
Supporting c	locuments a	re missing.			
Project hole	der respons	se (01/03/2022	(
Supporting c	locuments o	f GHG calcula	ition	are provided.	
Documentation provided by the project holder					
Supporting documents					
CAB assessment (04/04/2024)					
Review-1:					
OK, closed (supporting documents have been provided).					



Finding ID	24	Type finding	of	Corrective action	Date 27/02/2024		
Section No.	•						
16							
Description	n of finding						
CAR-24 a) Link b) Link	CAR-24a) Link is not opening for source of data of parameter FCi,m,y and Egmy.b) Link is not opening for source of data of parameter EGmy.						
Project hol	der respons	se (01/03/202	4)				
a) Link	s are revised	for Fci,m,y					
Links are rev	vised for EGr	n,y.					
Documente	Documentation provided by the project holder						
ER Calculation Excel Sheet, MR							
CAB assessment (04/04/2024)							
Review-1: a) OK, closed (Links are working). b) OK, closed (Links are working).							



Finding ID	25	Type finding	of	Corrective action	Date 27/02/2024		
Section No.	•						
16							
Description	n of finding						
 a) The value of 0.05 is provided in the MR, while the value of 0.15 has been written for parameter LF_{AD} in the ER sheet (E20 of tab "parameters" spreadsheet). The value of 74.1 tCO2e/TJ is available in the MR monitoring parameter section, while the value has been written as 74100 in Cell E 30 of tab 'parameters" sheet. So mismatch in the value of parameter EFco2 is observed at two places. 							
Project hol	der respons	se (01/03/202	4)				
a) The valu calculations b) In the exc	e of 0.15 is , 0.05 is alrea rel sheet, par	corrected as ady used, hen ameter sheet,	0.05 ce th the v	in ER excel sheet, po ere is no change in ER value is corrected as 74	arameters sheet. In PE calculations. .1.		
In the MR r 74.1 tCO2/T	In the MR report, an explanation is indicated regarding 74100 kgCO2/TJ conversion to 74.1 tCO2/Tj.						
Documentation provided by the project holder							
ER Calculation Excel Sheet, MR							
CAB assessment (04/04/2024)							
Review-1:							
a) OK, closed (Value has been corrected).							



b) *OK*, closed (Value has been corrected).

Finding ID	26	Type finding	of	Corrective action	Date 27/02/2024					
Section No.	Section No.									
16										
Description	n of finding									
CAR-26 Unit "%" has been written for parameter v _{i,t,db} (v _{CH4,t,db}) in cell D41 of tab "parameters" in ER sheet.										
Project hol	der respons	se (01/03/2024	(f)							
The "%" in E values are co In any case, th	ER excel shee prrectected c ne ER calculati	et is corrected 15 0.5436, 0.5544 ons are not char	as n a etc t nged.	n3/m3. Also in the MR o reflect the m3/m3, not ti	report, the monitoring he % value.					
Documento	ation provi	led by the pr	ojec	t holder						
ER Calculation Excel Sheet, MR										
<i>CAB</i> assessment (04/04/2024)										
Revie Ok, closed.	2W-1:									



Findir ID	ng 27	Type finding	of	Corrective action	Date 27/02/2024					
Sectio	Section No.									
16										
Descr	iption of finding	1								
CAR-2	7									
a)	Value has been n ""AMS III AO -TC	nismatch for par OOL 4-BE".	rame	ter DAFw in mentoring	report with ER sheet tab					
b)	This value has be sheet. This Value Excelsheet. Similo the MR.	en written 223.7 is in round up trly it shold be c	o in becc heck	cell G52 of tab "AMS III use actual value is 223. all the other vintage va	AO -TOOL 4-BE " in ER 698258566728 as per the lues for this parameter in					
c)	Description missi MR.	ng for the moni	torin	g parameter table of the	parameter "EG _{pj,y"} . in the					
d)	d) The total value (15,822,92) do not match for the parameter EG _{pj,y} . with the ERs Excelsheet. Similarly the Sum value (49,191.63) in the MR does not match with the value in the ERs Excelsheet.									
e)	For the parameter $(EG_{pj,y})$, the monitoring frequency is provided as ""Continuous measurement, but recorded monthly" in the registered PDD, however the same is not indicated in the MR.									
f)	For the paramete v _{i,t,db} (v CH4,t,db) in с 54.67, 55.41) in the	r (Vi,t,db (VCH4, cell E41 of tab "po MR.	t,db)) aram	, the value of 15% has be eters" in ER sheet, howev	een written for parameter er the values (54.36, 55.44,					



For the parameter ($V_{i,t,db}$ ($V_{CH4,t,db}$)), the unit is provided as " m^3 / m^3 " in the MR monitoring parameter table, however the same is % in the ERs Excelsheet.

Project holder response (01/03/2024)

a) Food waste sources are revised as Beotak, Eko Maber and Eko Smart, and hence distances are revised. According the ER excel sheet is revised and MR report is revised.

b) the km values was not relevant with the tool 04 calculation, therefore they are deleted from the AMS III AO -TOOL 4-BE. In general conservative approach was done in the MR and excel, such as food distances are 30.3 from Eko Smart and Eko Maber, but 22.6 km from Beotak, and this 22.6 km is accepted as 30.3 km to be convservative and for simplication of the calculation.

c) Description is indicated for the EGpj,y".

d) 15,822,92 is corrected as 15,822.92. The comma type is corrected as dot.

e) Monitoring frequency for EGpj,y" is indicated as "Continuous measurement, but recorded monthly" in Section 15.2.2.

f) The excel sheet reflects the 0.55 in m₃/m₃ unit. The same is indicated in MR too.

g) In both MR and excel sheet, the unit is corrected and indicated as m₃/m₃.

PP. response:

a) Section 1.4 the following sentence is added: "In the PDD, food sources were indicated the original source of the food wastes such as hotels, shopping malls and restaurants etc. However, the project owner is buying the waste food from Eko Maber, Beotak and Eko Smart. If the project owner does not buy these food wastes from these three companies, Eko Maber, Beotak and Eko Smart would dispose the waste food to the solid waste disposal sites. Therefore, for the project activity, taking the Eko Maber, Beotak and Eko Smart as the source location of the food waste best reflects the actual situation. Therefore, such a change is reflected in this MR report. Hence, as the actual location of the food waste, Eko Maber, Beotak and Eko Smart location is used where the food waste comes to the project site."

f) *In the monitoring period, actual values are used, please see the AMS-III.AO-PE tab in the ER excel sheet.*



For clarification, Parameters tab, cell E41, explanation is revised to indicated the actual values.

Documentation provided by the project holder

ER Calculation Excel Sheet, MR

CAB assessment (04/04/2024)

a) The MR also lacks an explanation as to why this revision was made.

b)Ok, closed.

c) Ok, closed (*Description is correct*).

d) *Ok*, *closed* (*Explanation is reasonable and typo corrected*).

e) OK, *closed* (*corrected*).

f) Why the actual value achieved during the monitoring period not used for the emission reduction calculations during this monitoring period?

g)OK, closed (corrected).

Review-2:

a) OK, closed. f) OK, closed.

Finding ID	28	Type finding	of	Corrective action	Date 27/02/2024			
Section No.								
15								



Description of finding

Frequency not correct for parameter *EG*_{*pj*,*y*}.

Project holder response (01/03/2024)

Section 15.2.2 is revised, the frequency is indicated as "Continuous measurement, but recorded monthly." Which is consistent with the PDD.

Documentation provided by the project holder

MR

CAB assessment (04/04/2024)

Review-1:

Ok, closed (correctly explained and revised).

Finding ID	29	Type finding	of	Corrective action	Date 22/07/2024			
Section No.	Section No.							
ITR								
Description	n of finding							
The MR should cite the dates following a consistent format.								
Project holder response (23/07/2024)								



Date format is corrected throughout the MR, couple dates were written as DD.MM.YYYY, they are corrected as DD/MM/YYYY. Please see the track change version for the corrections applied.

Documentation provided by the project holder

Revised MR

CAB assessment (30/07/2024)

Ok, Closed (Format has been revised).

Finding ID	30	Type finding	of	Corrective action	Date 22/07/2024				
Section No.	Section No.								
ITR	ITR								
Description	n of finding								
The comput and Mramo emissions in	ation of pro rak 2 is to particular t	ject emissions be checked a oo.	s espo nd c	ecially with the split re orrected and also the	eporting of Mramorak 1 2021 methane leakage				
The emission reduction sheet and MR does not present the application of para 19(a) of the methodology AMS-III.AO.									
Project holder response (23/07/2024)									
As indicated in Section 16.3, leakage is estimated as zero due to that project activity is a Greenfield one.									



Section 16.4 is revised as

$EM_{y} = (BE_{SWDS,y} + BE_{manure,y} + BE_{elect,y}) - (PE_{transp,} + PE_{phy \ leakage,y} - PE_{flare,y}) - LEy$

LEy is indicated in the formula.

Other than this LEy value, there is a leakage that is estimated within the content of Project Emissions as per AMS-III.AO which is already included in the calculations.

As per the ITR comment, excel sheet and MR report are revised and correction applied.

Documentation provided by the project holder

MR

CAB assessment (02/09/2024)

The demonstration for para 19(a) of AMS-III.AO is not indicated.

Project holder response (25/09/2024)

Mramorak ER excel file is revised to include the requirements of AMS-II.AO paragraph 19. Please see the calculations in AMS-I.D & III.D-BE sheet, below the row 36. Minimum value of emission reduction for each year is taken into account in net GHG emission reductions.

CAB assessment (15/11/2024)

OK, closed (It has been indicated).

Finding ID	31	Type finding	of	Corrective action	Date 22/07/2024		
Section No.							
ITR							
Description of finding							



The project emission calculation from leakage of methane is to be corrected and correspondingly the ER numbers are to be updated.

Project holder response (23/07/2024)

Project emission calculations are corrected as per the ITR comment, accordingly, excel and MR report are revised.

Documentation provided by the project holder

Excel and MR

CAB assessment (30/07/2024)

Ok, Closed (Corrected).

Finding ID	32	Type finding	of	Corrective action	Date 22/07/2024				
Section No.	Section No.								
ITR	ITR								
Description of finding									
a) The I to be b) The I has r	abelling of figu misleading. baseline emiss bot been fully o	re 1 to figure 4 a ions fom food wa lefined and estab	are to aste s olishe	b be checked and correcte cources are included, howe d	d in the MR as they appear ever the underlying baseline				
Project holder response (23/07/2024)									
a) Secti proje comj proc Hene with	a) Section 1.5, it is indicated that "Mramorak 1&2 Biogas Power Plants (hereafter project and/or Mramorak 1&2 project) is a bundled Greenfield project activity, comprising two identical biogas power plants, implementing anaerobic treatment process to organic wastes to reduce Greenhouse" Hence, Labelling of Figure 1 through Figure 4, even including Figure 5 is consistent with the description.								



Regarding giving numbering at the end of the labeling sentence (-1, -2, -3, -4) is given due to that figures represent the same project and location but at different resolution. Figure 1 is very low resolution, and figure 2 better resolution. Because of such a reason numbering indicated at the end of the labeling sentence.

b) Baseline condition for food waste is indicated in Section 1.5.

Documentation provided by the project holder

MR

CAB assessment (30/07/2024)

Ok, Closed.

Finding ID	33	Type finding	of	Corrective action	Date 22/07/2024					
Section No.	Section No.									
ITR										
Description	n of finding									
Section 1.4, page 12 of the MR does not present the distance of the food waste source locations 'Eko Maber doo, Eko Smart doo and Beotok doo.'. Also, the adjoining figure 6 also does not cite food waste source distance.										
Project holder response (23/07/2024)										
The distances were already given in Section 1.4.										



"Mramorak 1&2 Biogas Power Plants (hereafter project and/or Mramorak 1&2 project) is a bundled Greenfield project activity, comprising two identical biogas power plants, implementing anaerobic treatment process to organic wastes to reduce Greenhouse."

Figure 6 is revised, indicating the distances.

Documentation provided by the project holder

MR

CAB assessment (30/07/2024)

Ok, Closed (revised).

Finding ID	34	Type findina	of	Corrective action	Date					
		Juning			22/07/2024					
Section No.	Section No.									
ITR										
Description	n of finding									
Section 2 in th section.	he MR need n	ot present the r	metho	dology and tools applicab	ility conditions again in the					
Project hole	Project holder response (23/07/2024)									
Applicability conditions of the methodologies and the tools are removed from the Section 2.										
Documentation provided by the project holder										



MR

CAB assessment (30/07/2024)

OK, closed (Unnecessary information removed).

Finding ID	35	Type finding	of	Corrective action	Date 22/07/2024				
Section No.									
ITR									
Description	n of finding								
The line diagra	am showing th	e relevant monit	toring	points is not presented in s	section 15.1 of the MR.				
Project hol	der respons	se (24/07/202	4)						
Figure 16 is i	nserted, ind	icating the mo	onito	ring points.					
Documentation provided by the project holder									
MR, photos									
CAB assessment (30/07/2024)									
OK, closed (They have been indicated).									



Finding ID	36	Type finding	of	Corrective action	Date 22/07/2024					
Section No.										
ITR	ITR									
Description	n of finding									
Clarification is than other par and decimal n	missing abou ameters includ otation seem il	t the value of 'G ling the manure ncorrect for total	Quanti and c man	ty of residual waste produ o-digested food waste qua ure value too.	ced in year y' being higher antities. Further, the comma					
The volumetri wherein the ur	c flow rates an hit has not bee	re to be checke n considered op	d and eratio	l corrected for the two un nal for entire 365 days and	its and especially for 2021 d rather only for 281 days					
Project hol	der respons	se (24/07/202	4)							
Excel sheet of reduction co emission red	and MR repo alculations e luction value	rt is revised. I excel sheet an es.	TR co d M	ommented corrections R report is revised acc	are applied to emission cordingly regarding the					
Documentation provided by the project holder										
Revised Excel Sheet and MR										
CAB assessment (20/08/2024)										
OK, closed (Correction has been made).										

Finding	37	Type oj	<i>Corrective action</i>	Date
ID		finaing		22/07/2024



Section No.

ITR

Description of finding

The Section 16 in the MR should also present the application of para 19(a) of AMS-III.AO apart from citing the equation therein. The section does not present the computed values.

Project holder response (24/07/2024)

Section 16 is revised, the net GHG emission reduction formula is revised as including LEy.

Documentation provided by the project holder

Revised MR

CAB assessment (20/08/2024)

OK, closed (Correction has been made).

Finding ID	38	Type finding	of	Corrective action	Date		
					22/07/2024		
Section	Section No.						
ITR							
Description of finding							
a) 7 E ''	a) The baseline emissions from food waste as computed in the ER sheet tab 'AMS-III.AO-Tool4- BE' are to be checked and corrected as to how they are represented and used in the tab 'Mramorak ERstCO2'						
b) 7 2	b) The project emission calculations from leakage of methane is to be checked and corrected for 2021 in particular						
c) 7	he application of p	oara 19(a) of the	e meth	odology AMS-III.AO is not	evident in the ER sheet.		



d) The correct use of Mramorak 1 and Mramorak 2 data for project emission calculations and in particular for 2021 is to be checked for the underlyign days.

Project holder response (24/07/2024)

- a) *ER excel sheet is revised as per the comment.*
- b) *ER excel sheet is revised as per the comment.*
- c) *LEy is inserted into the equation,Section 16.*
- d) *ER excel sheet is revised as per the comment.*

Documentation provided by the project holder

Revised ER Excel Sheet

CAB assessment (20/08/2024)

- a) *OK*, closed (It has been corrected).
- b) OK, closed (It has been revised)
- c) *OK*, *Closed* (*Added*)

d) The consideration of operational days is not clar from the response.

Project holder response (25/09/2024)

d) "Stari Tamis farm manure is used in Mramorak 1 plant from the start of 1 January 2021 to 26 March 2021 when the Mramorak 2 entered into operation. This time length refers to 84 days (01/01/2021-26/03/2021). For that reason, 84 days added to Mramorak 1 plant." This explanation is inserted to the excel file as comment, AMS-I.D & III.D-BE sheet, G column, row 5.

CAB assessment (15/11/2024)

OK, closed (Supporting documents have been provided).

Finding ID	39	Type finding	of	Corrective action	Date 22/07/2024
Section No.					
ITR					
Description of finding					



The calibration related information is not presented fully and only brief statemeth on electricity meters calibration.

Project holder response (23/10/2024)

Contract with EPS Distribucija Doo, the electricity transmission company operating the power meters at the grid substation is provided. And addition to that, Zlatar doo company provided a letter that assures and states the calibration of the metering devices at the grid subststion are under the responsibility of the EPS Distribucija Doo.

Documentation provided by the project holder

Conract with the EPS Distribucija Doo, and a letter from the Zlatar doo.

CAB assessment (15/11/2024)

OK, closed (Explanied).

Finding ID	1	Type finding	of	Clarification	Date 27/02/2024	
Section No.						
Cover page						
Description	n of finding					
Title on the	Cover page ł	as "3" before t	the p	roject name. It seems o	as typo error.	
Project holder response (01/03/2024)						
Typo error is corrected.						
Documento	Documentation provided by the project holder					



MR

CAB assessment (04/04/2024)

Review-1:

OK, closed.

Finding ID	2	Type finding	of	Clarification	Date 27/02/2024	
Section No.						
Cover page.						
Description	n of finding					
Website is m	nissing in the	e contact row.				
Project hole	der respons	se (01/03/2024	í)			
Zlatar doo, t	he project o	wner, does not	t hav	e a website.		
Documento	ation provid	led by the pr	ojec	t holder		
_	-					
CAB assessment (04/04/2024)						
Review-1:						
OK, closed (Explanation is reasonable).						



Finding ID	3	Type finding	of	Clarification	Date 27/02/2024	
Section No.	,					
1						
Description	ı of finding					
Information	about group	o project or no	t is r	nissing in Section 1.1. o	f MR.	
Project hol	der respons	se (01/03/2024	í)			
Section 1.1. is project by bu as per the Standard, Vo	s revised. The undling two definition pr ersion 2.0, N	e following sen identical biogo rovided in the ov 2022.p.36."	tence as po e Bio	e is added: "Mramorak ower plant systems. It i oCarbon Registry Volu	1&2 project is a bundled is not a grouped project untary Carbon Market	
Documento	ation provid	ded by the pro	ojec	t holder		
MR						
CAB assessment (04/04/2024)						
Review-1:						
OK, closed (Explanation is reasonable and MR has been revised.).						



Finding ID	4	Type finding	of	Clarification	Date 27/02/2024	
Section No.						
2						
Description	n of finding					
Footnote 9 a	loes not wor	k.				
Project hol	der respons	se (01/03/2024	(
Link is revise	ed for AMS-1	III.D.				
Documento	ation provid	led by the pr	ojec	t holder		
-	-					
CAB assessment (04/04/2024)						
Review-1:						
OK, closed (OK, closed (Explanation is reasonable).					



Finding ID	5	Type finding	of	Clarification	Date 27/02/2024	
Section No.						
2						
Description	n of finding					
Footnote 17,	18,21 and 22	s not opening	•			
Project hol	der respons	se (01/03/2024	(†)			
Links are re regulations	vised which	are related to	o the	Serbian energy and e	nvironmental laws and	
Documento	ation provid	led by the pr	ojec	t holder		
MR						
CAB assessment (04/04/2024)						
Review-1:						
OK, closed.	OK, closed.					

Finding ID	6	Type finding	of	Clarification	Date 27/02/2024	
Section No.						



15

Description of finding

CL-6

Information related to the assessment of environmental effects of the project activities is missing.

Project holder response (01/03/2024)

Section 15.1 is revised as per the comment.

Documentation provided by the project holder

MR

CAB assessment (04/04/2024)

Review-1:

OK, closed (MR has been revised).

Finding ID	7	Type finding	of	Clarification	Date 27/02/2024
Section No.					
2					
Description of finding					
<i>CL-7</i>					



Footnote 49 is not opening.

Project holder response (01/03/2024)

Link is revised for AMS-III-D.

Documentation provided by the project holder

MR

CAB assessment (04/04/2024)

Review-1:

OK, closed.



Annex 3. Documentation review

Document Title / Version	Author	Organization	Document provider (if applicable)
Monitoring Report v1.0, 23/01/2024	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
ER Calculation Excel Sheet v1.0, 23/01/2024	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Training Emplyoee records	IEASBIOGAS	IEASBIOGAS	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Training certificate	SUMA	SUMA	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Animal Counts- daily reports	Zlatar Mramorak Doo	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti



Electricity Consumption	EPS Distribucija Doo. monthly invoices.	EPS Distribucija Doo. monthly invoices.	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Electricity production	EPS Distribucija Doo. monthly invoices.	EPS Distribucija Doo. monthly invoices.	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Flow meter reports	Zlatar Mramorak Doo	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Methane measurements	Zlatar Mramorak Doo	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Solid digestate reports	Zlatar Mramorak Doo	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Annual Reports for Temperature in Serbia	Republic Hydrometeorological Service of Serbia	Republic Hydrometeorolo gical Service of Serbia	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Transportation Vehicles	Beotok- Ekosmart- Maber	Beotok- Ekosmart- Maber	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Waste and manure quantities report	Beotok- Ekosmart- Maber	Beotok- Ekosmart- Maber	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti



Electricity Generation License	Republic of Serbia	Republic of Serbia	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Revised Electricity Generation License	Republic of Serbia	Republic of Serbia	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Generation License of Mramorak 1 (unrevised one) - 27/11/2018	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Generation License of Mramorak 2 (unrevised one) - 17/06/2020	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Generation License of Mramorak 1 (revised one) - 04/12/2018	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Generation License of Mramorak 2 (revised one) - 05/03/2021	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti



Proof of Project Owner Document - 26/10/2021	Project Owner	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Signed and Sealed Letter by BioGold Energy Doo. about the Project Owner - 06/05/2024	BioGold Energy Doo	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Law of Serbia on Livestock Management	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
waste management permit from Kovin Municipal Administration- Department to the Project Owner (Zlatar Mramorak Doo.) - 23/07/2021	Kovin Municipal Administration	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
The waste management permit from Kovin Municipal Administration- Department to BioGold Energy Doo.	Kovin Municipal Administration	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti


- 02/11/2021			
Monitoring Report v1.1, 01/03/2024	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
ER Calculation Excel Sheet v1.1, 01/03/2024	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
KMZ Coordinates for power plant	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Technical Documents of Monitoring Equipment (Flow Meter, Electricity Meters, Gas Analyser)	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Technical Documents of the Installed Technology (Desulphurization unit, Separator, Gas Engines, Anaerobic Digester)	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
KMZ file of the Project Activity	Project owner and Kilittaşı Engineering	-	Kilittaşı Mühendislik



			Müşavirlik İnşaat Tic. Ltd. Şti
ODA Declaration	Zlatar Mramorak Doo	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
The photographic evidences of the Grievance Book	Zlatar Mramorak Doo	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
The photographic evidences of the Electricity Meters	Zlatar Mramorak Doo	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Construction Agreements - 12/12/2018 (Mramorak 1) 01/07/2019	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
(Mramorak 2) Social Security Records of the Employees	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
The photographic evidences of the name plates of the Monitoring Equipment	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Energy Sector Development	Republic of Serbia	-	Kilittaşı Mühendislik



Strategy of the Republic of Serbia for the Period by 2025 with Projections by 2030 - 2016			Müşavirlik İnşaat Tic. Ltd. Şti
Received license to be implemented from the Electrodistribution company of Republic of Serbia for Mramorak 1 and Mramorak 2 (Investment Decision Date) - 26/07/2018	Republic of Serbia	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Environmental Impact Assessment Report (Mramorak 1) - 20/10/2021	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Environmental Impact Assessment Report (Mramorak 2) - 01/07/2021	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti



Calibration Documents of Gas Analyzer -	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
21/05/2019			
10/01/2020			
05-06/08/2021			
Calibration Documents of Flow Meters -	-	-	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
18/07/2019			
10/04/2020			
Waste disposal records	Beotok	Beotok	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Declaration about there is no double counting	Zlatar Mramorak Doo	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
BCR-PD	İncigül Polat Erdoğan	Kilittaşı Mühendislik	Kilittaşı Mühondislik
V1.5		Müşavirlik İnşaat Tic Ltd Sti	Müşavirlik İnşaat
24/08/2023		ric. Liu. ști.	11c. Ltd. Şti
Monitoring Report v1.2, 05/04/2024	İncigül Erdoğan	Kilittaşı Mühendislik	Kilittaşı Mühendislik



		Müşavirlik İnşaat Tic. Ltd. Şti	Müşavirlik İnşaat Tic. Ltd. Şti
ER Calculation Excel Sheet v1.2, 05/04/2024	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
SDG Tool	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
ER Calculation Excel Sheet v1.3, 25/09/2024	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
ER Calculation Excel Sheet v1.4, 23/10/2024	İncigül Erdoğan	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Contract with EPS Distribucija	Zlatar Mramorak Doo	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti
Declaration about calibration of meters	Zlatar Mramorak Doo	Zlatar Mramorak Doo	Kilittaşı Mühendislik Müşavirlik İnşaat Tic. Ltd. Şti



Annex 4. Abbreviations

Abbreviations	Full texts
VCCs	Approved Carbon Credits
CAR	Corrective Action Request
CDM	Clean Development mechanism
CL	Clarification request
CO2	Carbon dioxide
CO2e	Carbon dioxide equivalent
DR	Document Review
EF	Emission Factor
ER	Emission Reductions
FAR	Forward Action Request
GCC	Global Carbon Council
GHG	Green House Gases
IPCC	Intergovernmental Panel on Climate Change
IRR	Internal Rate of Return
kWh	Kilo Watt Hour
MW	Mega Watt



MWh	Mega Watt Hour
PD	Project Document
PVR	Project Verification Reports
SV	Site Visit
tCO2e	Tonnes of CO2 equivalents
VB	Verification Body
CAB	Conformity Assessment Body