



**Verified Carbon
Standard**

VERIFICATION REPORT OF UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN CAMPUS WIDE CLEAN ENERGY & ENERGY EFFICIENCY PROJECT



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Summary:

This report summarizes the verification of the University of Illinois Urbana-Champaign Campus Wide Clean Energy & Energy Efficiency Project (“the project”), an energy efficiency initiative located in Illinois, USA. The verification was conducted by KBS Certification Services Limited in accordance with the Verified Carbon Standard (VCS) Program rules and applicable methodologies. The purpose of the verification engagement was to perform an ex-post independent assessment of the greenhouse gas (GHG) emission reductions and removals achieved by the project during the sixth monitoring period from 01-July-2019 to 30-June-2021.

The verification audit was conducted remotely, involving a comprehensive review of project documentation, virtual interviews with relevant personnel, and virtual site visits to assess implementation, monitoring and performance. During verification, 02 Clarification Requests (CLs) and 04 Corrective Action Request (CAR) were raised and successfully resolved, with no Forward Action Requests (FARs).

No uncertainties or restrictions were identified during the process, with the audit team confirming that the project’s reporting aligns with the verification criteria. KBS concluded, with reasonable level of assurance, that the project complies with all verification requirements under the VCS Standard v4.7. During the current monitoring period, the project achieved emission reductions totaling 235,061 tCO₂e. The assessment team confirmed that the project meets all applicable criteria and has been successfully verified.

¹Working as New Team leader and Technical expert (TA 3.1) From 17-June 2026 Onwards

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1 INTRODUCTION

1.1 Objective

KBS Certification Services Limited has been contracted by University of Illinois at Urbana-Champaign; Institute for Sustainability, Energy, and Environment, to undertake the verification of the US Campus Wide Clean Energy & Energy Efficiency project titled “University of Illinois Urbana-Champaign Campus Wide Clean Energy & Energy Efficiency” (VCS ID-1407). The verifiers have reviewed the GHG data collected to date for the monitoring period from 01-July-2019 to 30-June-2021 (both days included) covered in this verification. The objective of this verification is a thorough and independent assessment of registered project activities against the applicable VCS requirement by the VVB. The verification process shall determine whether the proposed project activity complies with the requirements of the latest VCS guidelines/20/21/, applicability conditions of the selected methodology/19/, relevant host country regulations and guidance issued by the VCS Board.

1.2 Scope and Criteria

The scope of verification is to assess the claims and assumptions made in the VCS monitoring report (MR) against the VCS criteria, including but not limited to, VCS standard/20/, applied methodology/19/ and other relevant rules and requirements established for VCS project activities.

The Verification is not meant to provide any consulting towards the project participants. However, stated requests for clarification and/or correction actions request may have provided inputs for improvement of the project design.

1.3 Level of Assurance

The level of assurance of the verification report falls under reasonable assurance engagements. Reasonable assurance is a high level of assurance regarding material misstatements, but not an absolute one. Reasonable assurance includes the understanding that there is a remote likelihood that material misstatements will not be prevented or detected on a timely basis. To achieve reasonable assurance, the auditor needs to obtain sufficient appropriate audit evidence to reduce audit risk to an acceptably low level. This means that there is some uncertainty arising from the use of sampling, since it is possible that a material misstatement will be missed.

The evidence used to achieve a reasonable level of assurance is specified in section 2.3 and 2.4 of this report. In accordance with Section 4.1.8(1) of the VCS Standard/20/, the level of assurance was reasonable.

1.4 Summary Description of the Project

This campus-wide clean energy and efficiency initiative, located in Illinois, USA, has been developed by the University of Illinois Urbana-Champaign (UIUC). Implemented under the approved Verra methodology/19/ VM0025 and module VMD0038, the project is designed to reduce Scope 1 stationary combustion emissions in alignment with Carnegie Class performance standards. It's important to note that emission reductions from Scope 2 electricity consumption are not claimed under this methodology.

Rather than relying on a single technology, the university has adopted a comprehensive suite of clean energy and efficiency measures across the entire campus. As a result, the project successfully meets the required performance standards through the integration of the following activities:

- Behavior Change Campaign/Communications
- CoGen & Fuelswitch
- Lighting Retrofits
- On-Site Renewables
- Boiler Retrofits/Central Heating/Cooling Upgrades
- Building System Retro-Commissioning & Upgrades Including Automation
- Weatherization Improvements
- LEED Certification/Green Buildings
- Innovative Strategies

As part of the project, two major actions were taken: a fuel optimization strategy and a building retro-commissioning program. Since 2010, the University of Illinois Urbana-Champaign (UIUC) has worked to lower its carbon emissions by purchasing electricity with lower CO₂ emissions from the regional power grid (MISO) and reducing the use of its on-campus coal and gas power systems. This approach has helped the campus avoid burning coal for about 1 to 3 months each year since FY2012. At the same time, UIUC formed teams to improve energy use in buildings with high energy consumption. These teams focused on heating, cooling, and control systems to make them more efficient. From 2008 to 2021, they upgraded to over 80 buildings, covering more than 10 million square feet, cutting energy use by an average of 27%, and saving around \$84 million in utility costs. During the monitoring period from 01-July-2019, to 30-June-2021, the project reduced GHG emissions by a total of 235,061 tCO₂e.

2 VERIFICATION PROCESS

The registered VCS project is undergoing sixth verification, the approach adopted to ensure the quality of emission reductions is described in the following sections.

2.1 Method and Criteria

The verification approach consists of two steps.

In the first step, KBS completed a strategic desk review and risk assessment of the project's activities and processes to gain a full understanding of:

- Activities associated with all the sources contributing to the project emissions and emission reductions, including leakage if relevant;
- Protocols used to estimate or measure GHG emissions from these sources;
- Collection and handling of data;
- Controls on the collection and handling of data;
- Means of verifying reported data; and
- Identification of any possible gaps from the standard guidelines.

At the end of this step, KBS produced a Verification Checklist which, based on the risk assessment of the parameters and data collection and handling processes for each of those parameters, describes the verification approach and the sampling plan.

In the second step using the Verification checklist, KBS verified the implementation of the monitoring plan, and the data presented in the VCS MR for the period in question. This involved virtual interviews of project proponent representative's, virtual visit of the project technologies/facilities and a desk review of the Monitoring Report. This verification report describes the findings of this assessment.

2.2 Document Review

The verification is performed primarily as a document review of the registered VCS PD/1/, previous MR and Verification report and associated documents as stated in detail in appendix 3 of this document. The assessment is performed by a verification team using a protocol. The cross-checks between information provided in the Monitoring report/2/, VCS PD/1/ and information from sources other than those used, if available, the team's sectoral or local expertise and, if necessary, independent background investigations.

2.3 Interviews

The Remote audit by the assessment team was conducted on 24-April-2025, and the following stakeholders were interviewed. The agenda of the remote interview is to perform the following,

- Remote Inspection of Implementation and operation of organizational/ project activity (project scope and boundary, project baseline, project activity and technology, project equipment, GHG source, monitoring equipment), Project management of,
 1. Tour of Abbott Power Plant & Discussion of Plant Optimization
 2. Tour of Solar Farm 2.0
 3. Tour of Recommissioned Buildings
 4. Metering, Data Systems, and Utility Re-porting
- Monitoring plan (management and monitoring procedures), Application of tools, Established QA & QC, Quantification of the Data, Data Source, Application of formulas, Application of Default values, Emission reduction calculation – ex ante, ex- post, project emission, leakage emissions

Individual	Affiliation	Role	Date
Meredith Leigh	UIUC	Sustainability Programs Coordinator	24-April-2025
Miriam Keep	UIUC	Sustainability Programs Coordinator	24-April-2025
Mike Larson	UIUC	Associate Director of Utilities and Energy Services	24-April-2025
Greg Landes	UIUC	Utilities and Energy Services, expert on Solar farms	24-April-2025
Morgan White	UIUC	Associate Director of F&S for sustainability	24-April-2025

Paul Foote	UIUC	Energy Efficiency and Conservation Specialist	24-April-2025
Tony Spurlock	UIUC	Associate Director of Budget and resource planning	24-April-2025
Kate Brewster	UIUC	Energy Data and Systems Specialist	24-April-2025

2.4 Site Visits

Physical site inspections were not conducted during this verification. The supporting documentation and data were detailed for this project. The data included project documentation, primary data, required calculations, monitoring plan etc. Through additional reviews of the initial validation and verification reports, and interviews with Project Personnel, KBS determined a reasonable level of assurance could be obtained without an on-site visit.

However, a remote assessment is conducted using ICT tools such as Microsoft teams. Before the remote audit, a risk assessment is conducted to make sure the connectivity is good and all the required aspects are covered without any hindrances. No significant risks were identified and thus an audit plan is made which covers the inspection of the project facilities, checked the monitoring points, interviews with the relevant team etc. It was observed that throughout the remote assessment, there were no interruptions or any other difficulties in gathering the necessary information for the verification process. The verification team ensured that the remote audit was conducted as per VCS standard requirements.

2.5 Resolution of Findings

During the verification process, any deviations observed from the standard requirements are raised and findings by the assessment teams such as Corrective Action Requests (CARs), Clarification Requests (CLs), and Forward Action Requests (FARs). They are reviewed and resolved by the project proponent. The process of resolving these findings typically involves:

- **Identification of Findings:** The verification team raises issues related to the project's implementation, monitoring, reporting, or any deviations from the agreed-upon methodologies or standards.
- **Project Proponent's Response:** The project team is required to provide a response to each finding. This may include explanations, additional documentation, or corrective measures to address the identified issues.
- **Review and Closure:** The verification team evaluates the responses provided by the project proponent. If the corrective actions are deemed sufficient, the finding is marked as closed. If not, further clarification or additional actions may be requested.

- Final Assessment: Once all findings are resolved, the verification team finalizes its report and proceeds with a positive opinion for issuance the emission reductions, assuming all issues have been adequately addressed.

Number of findings issued during the current monitoring period:

Corrective Action Requests (CARs)	04
Clarification Requests (CLs)	03
Forward Action Requests (FARs)	00

All findings, including the issues raised, the responses from the project proponent, and the verification team's assessments, are included in Appendix 2.

2.5.1 Forward Action Requests

This section is not applicable, as no forward action requests are raised.

2.6 Eligibility for Validation Activities

This section is not applicable.

3 VALIDATION FINDINGS

The project activity is undergoing periodic verification only. Not applicable.

3.1 Methodology Deviations

No methodology deviations were applied to this project during the current reporting period.

3.2 Project Description Deviations

No project description deviations were applied to this project during the current reporting period.

3.3 New Project Activity Instances in Grouped Projects

Not applicable. The project activity is not a grouped project.

3.4 Baseline Reassessment

Did the project undergo baseline reassessment during the monitoring period?

☐ Yes

☒ No

4 VERIFICATION FINDINGS

4.1 Project Details

Item	Evidence gathering activities, evidence checked, and assessment conclusion:
Audit history	The audit history of the project demonstrates a consistent verification and validation process under the VCS Program. For the current verification period (01-July-2019 to 30-June-2021), verification was conducted by KBS Certification Services, covering a duration of two years. The audit history table provided under Section 1.2 of the Monitoring Report (MR)/2/ outlines the complete audit trail, which has been cross verified through the VCS project portal.
Double counting and participation under other GHG programs	Based on the Carbon Credit Attestation/13/ provided by the project proponent, it has been verified that the project is neither receiving nor seeking credit for emissions reductions or removals under any other GHG program. Additionally, the project has not been registered, nor is it seeking registration, under any other GHG programs and this is cross verified by checking the project details in other GHG registries such as CDM, GS, GCC etc. Therefore, there is no risk of double issuance or double counting associated with this project.
No double claiming with emissions trading programs or binding emission limits	Based on the desk review of the MR/2/, Carbon Credit Attestation/13/, and remote interviews with the PP's team, the verification team confirms that the project is not included in any emissions trading program or binding emission limit. There is no risk of double claiming as per VCS Standard requirements.
No double claiming with other forms of environmental credit	Based on the desk review of the MR/2/, Carbon Credit Attestation/13/, and remote interviews with the PP's team, the verification team confirms that the project has not sought, received, or planned to receive credit from any other GHG-related environmental credit system. There is no risk of double claiming in this regard under the VCS Standard/20/
Supply chain (scope 3) emissions double claiming	Based on the desk review of the MR/2/, Carbon Credit Attestation/13/, and remote interviews, the verification team confirms that the project does not affect the emissions footprint of any product in a supply chain, and the proponent is not a buyer

	or seller of such products. Therefore, there is no risk of double claiming related to Scope 3 emissions under the VCS Standard.
Sustainable development contributions	The project contributes to the following Sustainable Development Goals, <u>SDG 7 – Affordable and Clean Energy</u> Indicator: Proportion of population with primary reliance on clean fuels and technology Evidence gathering activities: Reviewed monitoring reports detailing energy efficiency initiatives, including retrofitting of lighting fixtures and HVAC systems, and the shift to lower CO₂ electricity purchases. Evidence checked: Records/14/ of retro commissioning of six campus buildings, retrofitting of energy-efficient lighting fixtures, and HVAC upgrades in over 80 buildings. Assessment conclusion: The project has implemented energy efficiency measures across the campus, resulting in a significant reduction in energy consumption (average 27% per building) and increased reliance on clean fuels and technologies. These actions support the claimed contributions to SDG 7. <u>SDG 9 – Industry, Innovation, and Infrastructure</u> Indicator: Furthers technological innovation Evidence gathering activities: Reviewed site-level updates on solar panel installations and assessment reports on renewable technology deployment. Evidence checked: Verified the installation records/14/ of a 33kW rooftop solar array on the Business Instructional Facility, Assessment conclusion: The implementation of innovative energy technologies like solar photovoltaics and solar thermal systems across multiple campus buildings is consistent with the project's stated goals. These activities provide clear evidence of support for SDG 9. <u>SDG 11 – Sustainable Cities and Communities</u> Indicator: Supports a more environmentally sustainable community

	Evidence gathering activities: Assessed LEED certification documentation and sustainability reports for facilities on campus. Evidence checked: Mail records/14/ which Confirmed 21 buildings achieved LEED certification by FY21, with 11 additional projects in progress. Assessment conclusion: The campus's pursuit of LEED certification for new and existing facilities shows a strong commitment to sustainable infrastructure development. Verified actions are aligned with the SD contribution described for SDG 11. <u>SDG 13 – Climate Action</u> Indicator: Tonnes of greenhouse gas emissions avoided or removed Evidence gathering activities: Examined the ER calculation spreadsheet/3/, MR/2/, utility summary sheet and supporting documents. Evidence checked: The review of ER sheet/3/, utility summary sheet and MR/2/ Confirmed the reported avoidance of 235,061 tCO₂e during the monitoring period. Assessment conclusion: The project has clearly implemented emission-reducing measures, with verifiable and substantial reductions in GHG emissions, demonstrating a valid and significant contribution to SDG 13.
Additional information relevant to the project	N/A

4.2 Safeguards and Stakeholder Engagement

This methodology pertains to campus-based clean energy and energy efficiency projects, which are internally implemented and do not result in significant external social impacts. All project activities occurred entirely within the boundaries of the university campus and did not involve or affect external communities; therefore, no external stakeholder engagement was conducted. Therefore, in accordance with the Verified Carbon Standard (VCS)/20/ Program and the scope of VM0025, formal stakeholder consultation was not conducted. Thus, the stakeholder consultation is not applicable.

However, the Project Proponent (PP) confirms that Illinois students are actively engaged in advancing campus sustainability and advocating for clean energy and efficiency on a regular basis. For example, student-led advocacy contributed to the development of the university's Solar Farm, one of the largest university-owned photovoltaic arrays in the country. Additionally, students contribute to the Illinois Green Fund, which has supported over 400 sustainability projects in which many of them students led. The university also organizes regular volunteer events⁴ and training programs to educate students on sustainability efforts and encourage energy conservation and waste reduction behaviors.

4.2.1 Stakeholder Identification

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Stakeholder identification	N/A
Legal or customary tenure/access rights	N/A
Stakeholder diversity and changes over time	N/A
Expected changes in well-being	N/A
Location of stakeholders	N/A
Location of resources	N/A

⁴<https://fs.illinois.edu/utilities-energy-services-business-operations/>
<https://studentengagement.illinois.edu/studentsustainability>
<https://fs.illinois.edu/News/Category/events-and-training/>

4.2.2 Stakeholder Consultation and Ongoing Communication

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Ongoing consultation	N/A
Date(s) of stakeholder consultation	N/A
Communication of monitored results	N/A
Consultation records	N/A
Stakeholder input	N/A

4.2.3 Free, Prior, and Informed Consent

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Consent	N/A
Outcome of FPIC discussion	N/A

4.2.4 Grievance Redress Procedure

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Grievance received and steps taken to resolve the grievance including the outcomes of the resolution	N/A
Grievance redress procedure	N/A

4.2.5 Public Comments

Comments received	Actions taken by the project proponent	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A	N/A

4.2.6 Risks to Local Stakeholders and the Environment

4.2.6.1 Management Experience

The verification team conducted a remote audit interview with the personnel involved in the management and execution of the project. These individuals are part of the university's internal management team, whose regular responsibilities include overseeing the campus's energy and utility systems. All project activities were confined within the university campus boundaries, and no engagement with external communities took place. Also, there is a dedicated team which monitor the project activity specifically. In addition, the project has undergone many verifications previously thus exhibiting the management experience in the Project activity.

4.2.6.2 Risk Assessment

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Natural and human induced risks to stakeholders' wellbeing	Based on desk review of the MR/2/, previous validation and verification documents/1/, a remote visit to the project facilities and interview with the PP, the verification team confirmed the project is within University of Illinois facilities and involves only university employees. No external stakeholders are involved. No risks were identified for Natural and human induced risks to stakeholders' wellbeing.
Risks to stakeholder participation	Desk review of MR/2/, previous project documents/1/, and remote interview with the PP confirmed no external stakeholders are engaged. No risks to stakeholder participation identified.
Working conditions	Based on remote interviews with personnel responsible for the monitoring system, it was confirmed that all workers are university employees abide by the U.S. labor laws. No risks were identified for working conditions.
Safety of women and girls	The verification team cross-checked university policies, team composition, and interviewed the PP. No risks were identified for Safety of women and girls.

Safety of minority and marginalized groups, including children	From the interviews with the PP and site personnel, it was observed that there are no risks related to the safety of minority and marginalized groups.
Pollutants (air, noise, discharges to water, generation and release of hazardous materials and chemical pesticides and fertilizers)	From the virtual visit to the project facilities and by interviewing the respective monitoring team, it was observed that the facilities are well maintained and waste is treated as per the industrial guidelines. Thus, there are no risks identified in this regard.

4.2.7 Respect for Human Rights and Equity

4.2.7.1 Labor and Work

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Discrimination	The verification team checked the University of Illinois' sex-based misconduct policy (https://cam.illinois.edu/policies/hr-79/), including reporting procedures and prevention programming, and confirmed that robust policy enforcement mechanisms are in place. Conclusion: No risk of discrimination identified; effective mitigation measures are implemented.
Sexual harassment	The verification team checked the University of Illinois' sex-based misconduct policy (https://cam.illinois.edu/policies/hr-79/), including grievance procedures and reporting channels, and confirmed that comprehensive measures to prevent and address sexual harassment are in place. Conclusion: No risk of sexual harassment identified; effective mitigation measures are implemented.
Gender equity in labor and work	The verification team checked the University of Illinois' anti-discrimination policy regarding gender identity (https://cam.illinois.edu/policies/hr-48/) and confirmed that strong

	policies and enforcement frameworks supporting gender equity in labor and work are implemented. Conclusion: No risk related to gender equity identified; effective mitigation measures are implemented.
Forced labor	The verification team checked the University of Illinois' compliance with the Fair Labor Standards Act and related labor policies and confirmed that fair labor practices are enforced and that there is no evidence of forced labor. Conclusion: No risk of forced labor identified; effective mitigation measures are implemented.
Child labor	The verification team checked the University of Illinois' policies and compliance with U.S. labor laws prohibiting child labor and confirmed that relevant measures are enforced. Conclusion: No risk of child labor identified; effective mitigation measures are implemented.
Human trafficking	The verification team checked the University of Illinois' policies related to human trafficking prevention, including adherence to federal labor and anti-trafficking laws, and confirmed that preventative measures are in place. Conclusion: No risk of human trafficking identified; effective mitigation measures are implemented.

4.2.7.2 Human Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	

4.2.7.3 Indigenous Peoples and Cultural Heritage

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	

4.2.7.4 Property Rights

Risks identified	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	

4.2.7.5 Benefit Sharing

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Summary of the benefit sharing plan	N/A
Benefit sharing during the monitoring period	N/A

4.2.8 Ecosystem Health

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Impacts on biodiversity and ecosystems	The verification team checked the details of the project activities outlined in Section 1 of the MR/2/, along with relevant documentation, site monitoring reports, and water usage records. The team confirmed that these activities do not pose any risk to biodiversity and ecosystems, soil degradation or erosion, or water consumption and stress. No documented impacts, complaints, or evidence related to these environmental aspects were found during the monitoring period. Conclusion: No risks identified in biodiversity, soil, or water consumption; no mitigation measures required.
Soil degradation and soil erosion	
Water consumption and stress	

4.2.8.1 Rare, Threatened, and Endangered species

Item	Evidence gathering activities, evidence checked, and assessment conclusion
Species or habitat	N/A

Areas needed for habitat connectivity	N/A
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Evidence gathering activities, evidence checked, and assessment conclusion	
Habitats for rare, threatened, and endangered species	N/A
Areas for habitat connectivity	N/A

4.2.8.2 Introduction of Species

Species introduced	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

Existing invasive species	Evidence gathering activities, evidence checked, and assessment conclusion
N/A	N/A

Evidence gathering activities, evidence checked, and assessment conclusion	
Invasive species	N/A

4.2.8.3 Ecosystem conversion

Item	Evidence gathering activities and evidence checked
Ecosystem conversion	N/A

4.3 Accuracy of Reduction and Removal Calculations

The VVB assessed the accuracy of the GHG emission reduction calculations by reviewing the data and parameters used for the quantification of baseline emissions, project emissions and project emission adjustments. The assessment was performed through a review of the Registered Project Description /1/, Current Monitoring Report /2/, ER sheet /3/, Illinois SC Exclusion

document /4/, Petascale Utility Usage records /5/, SIMAP outputs /6/, Utility Summary_FY /8/, Coal Invoices /11/, Electricity Generation and Purchase Records /15/, Gross Square Footage Data Sheet /16/, Gas Bills /17/, Fuel Consumption Records /18/, Methodology VM0025 and VMD0038 /19/, VCS Standard v4.7 /20/ and VCS Program Guide v4.4 /21/.

The VVB identified all fixed and monitored parameters used in the calculation of GHG emission reductions and verified that the monitored values reported in the Monitoring Report were supported by source records and consistently applied in the ER sheet. The VVB reviewed the spreadsheet formulae, verified worksheet links, mathematical computations, unit conversions, aggregation of annual data and cell references, and confirmed that the calculations were implemented consistently throughout the workbook. Manual transposition checks were also performed between the source documents, calculation spreadsheet and Monitoring Report to verify the consistency of the reported values. No material calculation or transcription errors were identified.

The VVB verified that the equations and calculation procedures applied by the PP were consistent with the approved monitoring plan and the equations prescribed in VM0025 and VMD0038 /19/. The VVB confirmed that the spreadsheet correctly implemented the methodology equations and that the reported GHG emission reductions were derived using the approved calculation procedures described in the Registered Project Description /1/ and the Monitoring Report /2/.

The VVB further assessed the appropriateness of the benchmark values, default values and emission factors applied in the calculations. The stationary combustion additionality performance benchmark (PBSc), baseline period, stationary combustion additionality eligibility period and applicable emission factors were verified against the Registered Project Description /1/, Monitoring Report /2/, Methodology VMD0038 /19/, VCS Standard /20/ and VCS Program Guide /21/. The VVB confirmed that the values applied were consistent with the methodology requirements and no inappropriate or non-conservative default values were identified.

The VVB also reviewed the calculation of the project emission adjustments associated with stationary combustion adjustment technologies. In particular, the calculation of the net increase in Scope 2 purchased electricity due to adjustment technologies reported in the PE ADJUSTMENTS SIMPLE worksheet of the ER sheet was checked against the supporting records and the methodology requirements.. The VVB confirmed that the value was calculated by comparing the monitored electricity consumption of the adjustment technologies with the baseline average electricity consumption of the substituted technologies over the selected baseline period, in accordance with the calculation approach prescribed in VMD0038 /19/. The monitored electricity consumption data were cross-checked against the Illinois SC Exclusion document /4/, Petascale Utility Usage records /5/, Electricity Generation and Purchase Records /15/ and Utility Summary_FY /8/. The spreadsheet formulae, worksheet references and calculation logic assessed, including the value reported in the PE ADJUSTMENTS SIMPLE worksheet, and no discrepancies were identified.

The VVB specifically reviewed the net increase in Scope 2 purchased electricity due to adjustment technologies reported in Cell K13 of the PE ADJUSTMENTS SIMPLE worksheet of the ER sheet /3/. The VVB verified that the value was calculated in accordance with VMD0038 /19/ by comparing the monitored electricity consumption of the adjustment technologies with the assumed baseline electricity consumption of the substituted technologies. For Project Year 8 (FY2019), the monitored electricity consumption of the adjustment technologies (20,589,404 kWh) was higher than the assumed baseline electricity consumption (13,809,810 kWh), resulting in a net increase of 6,779,594 kWh. The VVB reviewed the FY2019 electricity generation and purchase records and confirmed that the higher purchased electricity was associated with

reduced onsite electricity generation during the period. The VVB cross-checked the relevant data against Electricity Generation and Purchase Records /15/ and Utility Summary_FY /8/ and found the reported increase to be consistent with the supporting records.

The parameters reviewed by the VVB are summarized below: -

Data and Parameters Available at Validation: -

Parameter	Value Applied	VVB Assessment
PBSc	5.68%	The VVB verified that the stationary combustion additionality performance benchmark of 5.68% was applied in accordance with the Registered Project Description /1/, Monitoring Report /2/ and VMD0038 /19/. The benchmark value was independently cross-checked and confirmed to have been consistently applied in the additionality assessment.
B (Baseline Period)	3–5 years	The VVB verified that the selected baseline period complied with the requirements of VMD0038 /19/. Historical GHG inventory data were cross-checked against the Registered Project Description /1/, Monitoring Report /2/, SIMAP outputs /6/ and Utility Summary_FY /8/. The baseline period applied in the ER sheet/3/ was found to be consistent with the approved monitoring plan.
SCAP	1–5 years	The VVB confirmed that the stationary combustion additionality eligibility period was determined in accordance with VMD0038 /19/ by reviewing the Registered Project Description /1/, Monitoring Report /2/ and the ER sheet/3/. The calculation logic and application of the parameter were independently verified.

Data and Parameters Monitored: -

SFb=x, SFp=y	Annual monitored values	The VVB verified the campus gross square footage reported in the Monitoring Report against the Gross Square Footage Data Sheet /16/, Utility Summary_FY /8/ and ER sheet/3/. The monitored values were cross-checked to confirm accurate transfer of data and consistent application in the baseline and project emission calculations.
Fb=x,i, Fp=y,i	Annual monitored values	The VVB verified stationary combustion emissions by reviewing Coal Invoices /11/, Gas Bills /17/, Fuel Consumption Records /18/, Utility Summary_FY /8/, SIMAP outputs /6/, Monitoring Report /2/ and the ER sheet/3/. Spreadsheet formulae, emission factors, unit conversions

		and aggregation of annual emissions were independently checked and found consistent with VMD0038 /19/.
Eb=x, Ep=y	Annual monitored values	The VVB verified Scope 2 electricity emissions against Electricity Generation and Purchase Records /15/, Petascale Utility Usage records /5/, Utility Summary_FY /8/, SIMAP outputs /6/, Monitoring Report /2/ and the ER sheet/3/. The monitored electricity consumption, emission factors and spreadsheet calculations were independently verified and found to be correctly implemented.
y	FY2020 and FY2021	The VVB verified the project year assignment against the Registered Project Description /1/, Monitoring Report /2/ and the ER sheet/3/. The project years were consistently applied throughout the calculations.
ΔE_y	Calculated annually	The VVB independently verified the calculation of the net increase in Scope 2 purchased electricity due to adjustment technologies using the PE ADJUSTMENTS SIMPLE worksheet of the ER sheet/3/. The calculation was cross-checked against the Illinois SC Exclusion document /4/, Petascale Utility Usage records /5/, Electricity Generation and Purchase Records /15/ and Utility Summary_FY /8/. The VVB confirmed that ΔE_y was derived from the difference between the monitored electricity consumption of the adjustment technologies and the baseline average electricity consumption of the substituted technologies in accordance with VMD0038 /19/.
PSHb=x, PSHp=y	Calculated where applicable	The VVB verified the calculation of purchased steam and heat emissions against the Monitoring Report /2/, Utility Summary_FY /8/, ER sheet/3/ and VMD0038 /19/. Spreadsheet calculations and methodology implementation were independently verified.
PCb=x, PCp=y	Calculated where applicable	The VVB verified the calculation of purchased cooling emissions against the Monitoring Report /2/, Utility Summary_FY /8/, ER sheet/3/ and VMD0038 /19/. The calculation approach, emission factors and spreadsheet implementation were found to be consistent with the methodology.

VVB Conclusion

Based on the review of the supporting documentation, checking of the ER sheet, verification of spreadsheet formulae, assessment of monitored and fixed parameters, evaluation of default values and benchmark parameters, and manual data transposition checks, the VVB concludes

that the GHG emission reductions have been quantified accurately and consistently in accordance with the approved monitoring plan, VM0025, VMD0038, the VCS Standard v4.7 /20/ and the VCS Program Guide v4.4 /21/. The methods and equations prescribed in the Registered Project Description were correctly implemented, the reported data were supported by appropriate evidence, and no material errors or inconsistencies were identified. Accordingly, the VVB concludes that the project's GHG statement is fairly stated with respect to the quantification of GHG emission reductions.

4.4 Quality of Evidence to Determine Reductions and Removals

The VVB assessed the quality, reliability and sufficiency of the evidence (refer Appendix 3 of this report) used to determine the reported GHG emission reductions for the project. No carbon dioxide removals were reported; therefore, the assessment relates solely to GHG emission reductions.

The determination of the reported GHG emission reductions is based on documented monitoring data and supporting records generated during project implementation and monitoring. The evidence reviewed included the Registered Project Description, Validation Report, Previous Monitoring Report and Verification Report /1/, Current Monitoring Report /2/, ER sheet/3/, Illinois SC Exclusion document /4/, Petascale Utility Usage records /5/, SIMAP outputs /6/, Utility Summary_FY /8/, Sample Coal Invoices /11/, Electricity Generation and Purchase Records /15/, Gross Square Footage Data Sheet /16/, Gas Bills /17/, Fuel Consumption Records /18/, together with the applicable VM0025, VMD0038 /19/, VCS Standard v4.7 /20/ and VCS Program Guide v4.4 /21/. The VVB confirmed that the reported GHG emission reductions are supported by complete and traceable documentary evidence and that the monitored data are consistent with the project boundary and monitoring requirements.

The primary quantitative evidence comprised documented internal operational records, utility billing records, fuel consumption records, campus facilities records, SIMAP outputs and the ER sheet. External documented evidence, including electricity purchase records, fuel purchase invoices and utility billing records, was used to corroborate internally generated records where applicable. The VVB assessed the reliability of the evidence by comparing the information reported in the Monitoring Report with the original supporting records, crosschecking the parameters in the ER sheet, and performing consistency checks between utility records, fuel consumption records, SIMAP outputs and project calculation files. Cross-checks were also performed between the Utility Summary, supporting invoices and source records to verify the completeness and consistency of the monitored data. No material discrepancies were identified during the verification.

The VVB reviewed the information flow from data generation through aggregation, calculation and final reporting. Primary data generated from electricity meters, natural gas meters, fuel consumption records, purchased electricity records and campus operational records were compiled into the Utility Summary and supporting databases, processed through SIMAP where applicable, and incorporated into the ER sheet for the calculation of baseline emissions, project emissions and project emission adjustments. The calculated results were subsequently transferred to the Monitoring Report. The VVB traced selected data from the Monitoring Report back to the original supporting records and independently verified the transfer of data between source documents, calculation spreadsheets and the Monitoring Report. The VVB confirmed that the information flow is logical, traceable and adequately controlled, and no material transcription or aggregation errors were identified.

The VVB also reviewed the monitoring equipment and measurement procedures applied by the project. Electricity consumption was measured using standard electric meters provided by the utility, while natural gas consumption was measured using industrial standardized dry gas meters provided by the utility. Purchased heat and cooling data were supported by standard industrial measurement equipment at the source of generation and corresponding invoiced energy services. Campus gross square footage data were obtained from institutional facilities records. The Monitoring Report specifies that the primary data are subject to internal financial and facilities operational reviews, followed by calculation review and report preparation prior to their use in the project calculations. The VVB reviewed these monitoring and quality control procedures and confirmed that they are consistent with the approved monitoring plan and the requirements of VMD0038 /19/. As the monitoring equipment is operated and maintained by the respective utility providers, the VVB relied on official utility billing records generated from these metering systems and found no evidence indicating that the measurement practices or calibration arrangements could materially affect the accuracy of the reported GHG emission reductions.

Based on the assessment of the supporting evidence, independent cross-checks, review of monitoring records, evaluation of the information flow and assessment of the monitoring procedures, the VVB concludes that the quantity of evidence is sufficient and the quality of evidence is appropriate and reliable to support the verification of the reported GHG emission reductions for the monitoring period under review.

4.5 Non-Permanence Risk Analysis

The Non-Permanence Risk Analysis is not relevant for this project.

5 VERIFICATION OPINION

5.1 Verification Summary

KBS performs the verification of the emission reductions for the VCS project activity “University of Illinois Urbana-Champaign Campus Wide Clean Energy & Energy Efficiency” (VCS ID-1407) for the monitoring period from 01-July-2019 to 30-June-2021, for the crediting period 01-July-2011 to 30-June-2021.

It is the responsibility as the VVB to express an independent verification statement on the reported GHG emission reductions from the project activity. The GHG statement is the responsibility of the Project Proponent.

KBS commenced the verification based on the monitoring methodology VM0025/19/ and applicable module VMD0038/19/, the monitoring plan contained in the registered PD/1/ and MR /2/ as per the VCS Program Guidelines version 4.4/21/.

The VVB has carried out this verification with a reasonable level of assurance, as stated in Section 1.3 above. Further, the verification of the GHG statement was conducted in accordance with ISO 14064-3:2019.

Overall, upon completing our review as the VVB, we confirm that:

- The project activity consistently demonstrates high standards of quality and integrity and ensures transparency and traceability in all aspects. The extensive impact of the project is also observed through its adherence to four Sustainable Development Goals (SDGs).
- The project activity aligns with all relevant host country criteria and adheres to VCS rules and requirements. Likewise, it complies comprehensively with all conditions outlined in the latest version of the specifically applied methodologies/19/.
- The consultation with local stakeholders is conducted extensively and follows both host country and VCS requirements, affirming a commitment to inclusivity and strong community engagement.
- The monitoring plan stands out for its robust structure, ensuring a comprehensive mechanism for overseeing project progress. All detailed information presented in the VCS MR /2/ has been consistently applied so far, attesting to the project's commitment to quality.
- The implementation of the project aligns with the description outlined in the VCS MR /2/, underscoring the project's commitment to fulfilling its proposed objectives.

No qualifications or modifications have been identified during this verification. Altogether, the VVB is of the opinion that project activity is unique and of a very high standard in comparison to related projects, owing to the approaches applied by the PP.

5.2 Verification Conclusion

KBS performed the verification by gathering evidence, conducting a comprehensive remote audit, and requesting additional information as needed. The Project Proponent calculated the actual emission reductions achieved in accordance with the applied methodology VM0025/19/. The explanations provided by the PP give KBS a strong level of assurance that the reported GHG emission reductions have indeed been achieved. This is demonstrated by the PP's consistent commitment to accuracy and integrity throughout the verification process.

Verification period: From 01-July-2019 to 30-June-2021

Verified GHG emission reductions and carbon dioxide removals in the above verification period:

Project year	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU's (tCO ₂ e)	Removal VCU's (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-Jul-2019 to 30-Jun-2020	317,226	190,185	5,659	121,382	0	121,382
01-Jul-2020 to 30-Jun-2021	313,102	199,423	0	113,679	0	113,679
Total	630,328	389,608	5,659	235,061	0	235,061

Vintage period	Baseline emissions (tCO ₂ e)	Project emissions (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Reduction VCU's (tCO ₂ e)	Removal VCU's (tCO ₂ e)	Total VCUs (tCO ₂ e)
01-Jul-2019 to 31-Dec-2019	142,752	85,583	2,547	54,622	0	54,622
01-Jan-2020 to 31-Dec-2020	315,370	194,342	3,112	117,916	0	117,916
01-Jan-2021 to 30-Jun-2021	172,206	109,683	0	62,523	0	62,523

Total	630,328	389,608	5,659	235,061	0	235,061
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5.3 Ex-ante vs Ex-post ERR Comparison

Vintage period	Ex-ante estimated reductions /removals	Achieved reductions /removals	Percent difference	Explanation for the difference
01-July-2019 to 30-June-2020	17,571	121,382	149.4%	The registered PDD considered the Scope 1 and scope 2 activities that were implemented and also the planned implementation. The emission reduction that was considered as estimate in registered PDD were only based on the implemented technology at the time of validation and not on the planned technology that were to be implemented during future years.
01-July-2020 to 30-June-2021	13,459	113,679	157.6%	
Total	31,030	235,061	153.3%	During this verification assessment – the verification team observed that the planned technologies were implemented during the course of verifications and in line with the registered PDD. The verification team observed the following activities implemented after the start date of the project, 1) FY2016 – On-site renewables 2) FY2017 – fuel switch (to wind power purchase) 3) FY2018 – building system upgradation 4) FY2019 - building system upgradation and utility system optimization Thus, the variation in the ER with the estimate of the registered PDD is justified by PP and accepted by the verification team. The PP provided detailed information in the section 5.4 of the MR. Also, the monitoring data obtained are fully automated, the values obtained for the calculation of the ERs are found to be valid. The UIUC takes care of the activities and monitoring in a systematic manner in order to improve the efficiency. The verification team reviewed the registered documents like PD, validation report and corresponding ER sheet along with the previous verification documents and found that the ERs are gradually increasing in every monitoring period compared to previous monitoring period of that specific monitoring period. This is due to the decreasing nature of ex-ante estimates (As per the registered PD) and increasing nature of the investment in energy efficiency activities.

Location: Faridabad

Date: 27-August-2026

A handwritten signature in black ink, appearing to read 'Kaushal Goyal', is written over a horizontal line.

Authorized Signatory: Kaushal Goyal

Designation: Managing Director

KBS Certification Services Ltd.

APPENDIX 1: COMMERCIALLY SENSITIVE INFORMATION

As there is no commercially sensitive information in the given project, this section is not applicable.

<i>Section</i>	<i>Information</i>	<i>Justification</i>	<i>Assessment method and conclusion</i>
<u>N/A</u>			

APPENDIX 2: FINDINGS

Table 1. CL FROM THIS VALIDATION/VERIFICATION

CL ID	CL 01	SECTION NO	Section 4 of the MR	Date: 03/04/2025
Stage of Findings			☒ Pre-site visit Desk review finding	☐ Post-Site Visit & Desk review finding
Description of CL				
1. Under Section 4.1 of the MR, in the Data/Parameter table 'B', the source of the data and value applied are inconsistent with the registered PDD. PP should clarify the inconsistency. 2. PP should clarify why the data source is missing and why the applied value is inconsistent with the registered PDD under Section 4.1, Data/Parameter 'SCAP.'				
Project/ Activity participant response		Date: 23/05/2025		
1. The report has been updated to align with the registered PDD. 2. The data source is also left blank in the PDD. The applied value has been updated to align with the PDD.				
Documentation provided by project/ activity participant				
Revised MR				
KBS assessment			Date: 04/06/2025	
1. The verification team reviewed the revised MR and confirmed that the data/parameter 'B' is now consistent with the registered PDD. 2. PP has now updated the data/parameter ‘SCAP’ and now it is found consistent with the registered PDD. Hence CL01 is closed.				

CL ID	CL 02	SECTION NO	Section 2, Section 4.3 of MR	Date: 05/05/2025
Stage of Findings			☐ Pre-site visit Desk review finding	☒ Post-Site Visit & Desk review finding

Description of CL	
PP to clarify the following aspects, 1. How the materiality errors during the manual transfer of data from the EDNA system to SIMAP are minimized/ omitted. Further, provide a description of internal controls or cross-checks performed before final entry into SIMAP. 2. From the interviews with the technical teams, it was observed that all the data are electronically managed. PP to clarify on the measures taken regarding the data management in case of a system failure. 3. The nature, frequency, and content of stakeholder engagement and awareness activities conducted during the monitoring period and provide the supporting evidences for the same. Also, PP to update the section 2 of the MR accordingly. 4. Extent of usage of coal boilers during the monitoring period, usage of coal and how it is accounted for ER calculations.	
Project/ Activity participant response	Date: 27/05/2025
1. The Energy Billing System (EBS) is designed to import data directly from eDNA. There is no file generation or any way to touch or modify the data prior to import. There is no opportunity for error during that importing process. Data from EBS is reported in the Utility Summary, which is used for reporting to SIMAP. 2. If there were a data failure (whether that be the database itself corrupting or bad data input that wasn't easily removed by hand), we hold 40 days of nightly backups of the database and server image in our Veeam backup environment. If there were a total server failure, the image from the aforementioned Veeam backups would be restored with the most recent (or most appropriate) backup image. If there was an infrastructure, data center, or physical site failure, we have the capability to restore the Veeam backups into our infrastructure on the University of Illinois System campus in Springfield. At that point, some custom networking would need to be put into place to accommodate various routing changes, but it is achievable. Any failures aside from those would either indicate a major catastrophe or the failure would lie with systems outside the scope of our control. 3. Illinois students are actively engaged in advocating for clean energy and energy efficiency to advance sustainability on campus. For example, students advocated for a Solar Farm, and now Illinois has one of the largest university-owned photovoltaic arrays in the country. In addition, students contribute to the Illinois Green Fund, which has funded more than 400 sustainability projects, many of which were student-led. In addition, the university offers numerous volunteer events and trainings to educate students about ongoing sustainability efforts and promote behavior change to conserve energy and reduce waste. See links below for more information. 4. Usage of coal is included in the Utility Summary, see column F "Coal Burned Usage." This data is reported to SIMAP where it is factored into the annual emissions calculations.	
Documentation provided by project/ activity participant	

<https://fs.illinois.edu/utilities-energy-services-business-operations/>

<https://studentengagement.illinois.edu/studentsustainability>

<https://fs.illinois.edu/News/Category/events-and-training/>

KBS assessment

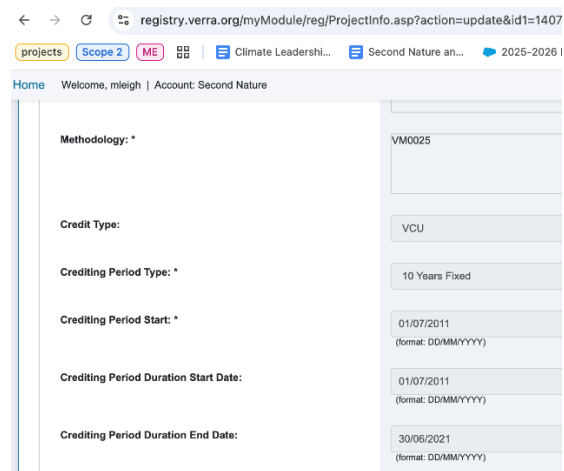
Date: 04/06/2025

1. The PP has clarified that the Energy Billing System (EBS) directly imports data from the eDNA system with no intermediate manual handling or modification, thereby eliminating the potential for materiality errors during transfer. This automated process, along with reporting through the Utility Summary, is deemed a robust control measure. The explanation is found acceptable.
2. The PP has provided a comprehensive data backup and recovery plan using Veeam, including daily backups and off-site restoration capability at the University of Illinois System campus in Springfield. The measures in place are sufficient to ensure data integrity and continuity in case of system failure. The clarification is found acceptable.
3. The PP has described ongoing stakeholder engagement activities, primarily led by student initiatives and campus sustainability programs. Weblink(evidence) of these engagements, including volunteer events, student advocacy, and project funding via the Illinois Green Fund, supports the active and continued awareness efforts. The PP also confirms that the stakeholder consultation is not required for this methodology. The clarification is acceptable, and Section 2 of the MR should be updated accordingly.
4. The PP has explained that coal usage during the monitoring period is tracked under column F ("Coal Burned Usage") of the Utility Summary, and that this data is reported into SIMAP for inclusion in emissions calculations. The accounting approach is clearly described and found acceptable.

Hence, CL02 is closed.

CL ID	CL 03	SECTION NO	Section 4 of the MR	Date: 11/07/2025
Stage of Findings			☐ Pre-site visit Desk review finding	☒ Post-Site Visit & Desk review finding
Description of CL				
PP is required to clarify that as per the registered PDD – the project end date is 30 June 2020 – but the claim in MR is 30 June 2021.				
Project/ Activity participant response		Date: 28/07/2025		
This is simply a mistake in the PDD. I attach a screenshot showing the project crediting period in the Verra Registry and you will see it is stated as 01/07/2011 - 30/06/2021.				

Documentation provided by project/ activity participant



registry.terra.org/myModule/reg/ProjectInfo.asp?action=update&id=1407

projects Scope 2 ME Climate Leadershi... Second Nature an... 2025-2026 I

Home Welcome, mleigh | Account: Second Nature

Methodology: * VM0025

Credit Type: VCU

Crediting Period Type: * 10 Years Fixed

Crediting Period Start: * 01/07/2011 (format: DD/MM/YYYY)

Crediting Period Duration Start Date: 01/07/2011 (format: DD/MM/YYYY)

Crediting Period Duration End Date: 30/06/2021 (format: DD/MM/YYYY)

KBS assessment

Date: 28/07/2025

The PP clarified that the end date in the PDD (30 June 2020) was a typographical error and submitted a Verra Registry screenshot confirming the crediting period as 01/07/2011 to 30/06/2021. The verification team cross-checked and confirmed the same. As the monitoring period falls within the registered crediting period, the issue is resolved.

Hence CL03 is closed.

Table 2. CAR FROM THIS VALIDATION/VERIFICATION

CAR ID	CAR 01	SECTION NO.	Section 1 of the MR	Date: 03/04/2025
Stage of Findings			☒ Pre-site visit Desk review finding	☐ Post-Site Visit & Desk review finding
Description of CAR				
- Under section 1.2 of the MR, PP needs to include the current verification details in the Audit History table as well. - Under Section 1.8, PP to review and revise the project location as it is not traceable with the given geodetic information. - Under section 1.9, PP should include the details of the applicable module VMD0038. - Under Section 1.12, PP should fill out SDG Table 1 as per the template guidelines. PP should also clearly mention the current period's project contribution and specify the contribution for the entire project lifetime.				
Project/ Activity participant response		Date: 23/05/2025		
- This has been added. - Unclear what is needed here. The coordinates appear correct when I map them, and match the PDD. - This has been added. - See additions to the SDG table.				
Documentation provided by project/ activity participant				
Revised MR				
KBS assessment				Date: 24/05/2025
The verification team reviewed the revised MR and confirmed that: - The Audit History table has been updated to include the current verification. Hence, closed. The GPS coordinates are specified. However, they are not accessible. Hence, the finding is still open. - The applicable module VMD0038 has been added. Hence, closed. - SDG Table 1 now has been completed per template guidelines, with clear distinction between current period and project lifetime contributions. Hence, closed.				
Project/ Activity participant response				Date: 05/06/2025
GPS coordinates are accessible here: https://maps.app.goo.gl/YNUZ7R6dqxkhreE38				

Documentation provided by project/activity participant	
-	
KBS assessment	Date: 24/06/2025
The GPS coordinates are now accessible through the link provided. Hence, CAR 01 is closed.	

CAR ID	CAR 02	SECTION NO.	Section 5 of the MR	Date: 03/04/2025
Stage of Findings			☒ Pre-site visit Desk review finding	☐ Post-Site Visit & Desk review finding
Description of CAR				
PP to provide the GHG emission reduction table from Section 5.4 in the ER calculation sheet to ensure clear traceability of the available values calculation.				
Project/ Activity participant response		Date: 23/05/2025		
A table was added in the Summary tab of the updated calculation sheet.				
Documentation provided by project/ activity participant				
Revised ER sheet.				
KBS assessment			Date: 24/05/2025	
PP has now included the Table 1 of section 5.4 under the ER sheet for clear calculation traceability and found corrected.				
Project/ Activity participant response			Date: 11/06/2025	
See the calculation and explanation that have been added to the table.				
Documentation provided by project/activity participant				
Revised MR				

KBS assessment	Date: 24/06/2025
The calculations are now updated in the section 5.4 of the MR. Hence, CAR02 is closed.	

CAR ID	CAR 03	SECTION NO.	General/ Editorial	Date: 03/04/2025
Stage of Findings			☒ Pre-site visit Desk review finding	☐ Post-Site Visit & Desk review finding
Description of CAR				
1. PP to ensure template ver4.4 related to font (color, size and style) throughout the monitoring report. 2. PP needs to remove the template guidelines from the final MR. 3. PP should use the date format "DD-Month-YYYY" as per the VCS template (version 4.4) guidelines. 4. PP should delete the appendix (title and instructions) where no appendix is required.				
Project/ Activity participant response		Date: 23/05/2025		
1. These points have all been addressed.				
Documentation provided by project/ activity participant				
Revised MR				
KBS assessment				Date: 04/06/2025
The verification team Checked the revised MR and confirmed that- 1. The font colour, size, and style have been aligned with the VCS template version 4.4 throughout the MR. 2. The template guidelines have been removed from the final version of the MR 3. The date format has been revised to "DD-Month-YYYY" in accordance with the VCS template version 4.4 4. Unused appendix titles and instructions now have been deleted Hence, CAR03 is closed.				

CAR ID	CAR 04	SECTION NO.	Section 4.3 of MR	Date: 05/05/2025
Stage of Findings			☐ Pre-site visit Desk review finding	☒ Post-Site Visit & Desk review finding
Description of CAR				
a) It was observed during the remote audit that PP is monitoring the coal consumption through purchase invoices – The objective evidence of the same is requested b) It was also noted that coal-based boiler is used for emergency – objective evidence for the monitoring of the boiler operational hours is requested c) During the audit, it is noted that the meters (gas meters & electricity meters) are in place and are monitored in regular intervals. The calibration certificates are provided for all the installed meters, however, the physical photograph of the meters with serial numbers are requested for the cross verification. d) The MR does not emphasise on the usage of electricity generated during holidays (ex – weekends, vacations, public holidays etc). e) From the audit, it is noted that the electricity generated is primarily used for captive consumption and if excess is exported to grid. The verification team request the Flow diagram of the electricity distribution system for the project activity.				
Project/ Activity participant response		Date: 23/05/2025		
a) Coal data from eDNA has been shared in the shared Box folder in the “Abbott Power Plant Coal Usage from 1-1-19 thru 7-1-21 Reconciled with the UT Summary”, “Abbott Coal by Asset sheet.” Invoices can be found in “Knight_Hawk_J21_01_46.pdf” and Knight_Hawk_P1910896_Inv_J20_01_64.” b) The coal data mentioned above indicates the dates and times of coal burning. c) Photos of gas boilers in the power plant have been uploaded to the shared Box folder. See the second Box link below. These account for the bulk of the project ERs. d) Campus remains operational 24 hours a day, 365 days per year, for research purposes, public safety, housing, and other programs. Generated electricity continues to be used on campus during holidays. e) It is extremely rare that we generate more electricity than we are using in a given hour. When that does occur, we sell it on the real-time market through MISO through our energy company, Prairieland Energy Inc. Two overall schematics of the energy flow for our campus our provided in the third Box link below.				
Documentation provided by project/ activity participant				

<https://uofi.app.box.com/file/1776874132523>

<https://uofi.app.box.com/folder/318323548516>

<https://uofi.app.box.com/folder/322647097390>

KBS assessment

Date: 04/06/2025

The verification team reviewed the MR and submitted objective evidences and found below points acceptable-

- a) The PP has provided coal consumption data extracted from the eDNA system along with supporting purchase invoices in the shared folder. The coal data is checked with submitted invoices and found consistent. Hence it is acceptable.
- b) The provided coal usage data includes timestamps indicating boiler operation during emergency events. This is considered as objective evidence for monitoring operational hours and found acceptable.
- c) Photographs of the gas boilers, including visible serial numbers, have been submitted. These align with the meters for which calibration certificates were provided. Hence it is found acceptable.
- d) The PP has clarified that the campus operates year-round without interruption, ensuring continuous electricity use during weekends and holidays. The explanation is reasonable and acceptable.
- e) The PP has provided two schematic diagrams detailing the campus electricity distribution system. These diagrams effectively illustrate the flow of electricity, confirming that generation is primarily for captive use, with rare instances of export to the grid via MISO through Prairieland Energy Inc. Hence, the explanation is considered justified and acceptable.

Hence, CAR04 is closed.

APPENDIX 3: REFERENCE DOCUMENTS

S.no.	Document	Version and Date	Author or provider
1	Registered PD, Validation report, Previously issued MR and verification Report	Ver 10, 06-December-2014 Ver 04, 15-December-2014 Ver 01, 10-February-2022 Ver 2.2 13-May-2022	Publicly Available
2	Current Monitoring Report	Initial- 04-Dec-2024 Final- 17-September-2025	PP
3	(UIUC) Excel Template (ER sheet)	23-May-2025	PP
4	(UIUC) Illinois SC exclusion	-	PP
5	Petascale- Copy of Petascale Utility Usage with EBS Data2, Petascale Billed Meter Data from EBS from Feb 2019 to Aug 2021	-	PP
6	S_eCO2_Sum (simap output)	-	PP
7	Satisfaction Questionary Workshop	-	PP
8	Utility Summary_FY	-	PP
9	Energy Diagrams- Grid Diagram, Illinois_Energy_Enterprise	-	PP
10	Meter Pictures, meter r	-	PP
11	Sample Coal Invoices	From July 2019 to June 2021	PP
12	Solar farm records- panels, inverts, transformer records, Electrical Interconnection plan	-	PP
13	Carbon Credit Attestation	24-02-2025	PP

14	SDG contribution records- LEED certificate mail records, records of Retro commissioning, BIF new solar installation record, RCx Economic Summary to Date, Jul 2024 Fully Loaded Utility Rates	-	PP
15	Electricity generation and purchase records- PEI Electric Invoices from Jan 2019 to Jun 2021, Solar Farm 1 Invoices from Jan 2019 to Jun 2021, Abbott Power Plant Electricity Generation 1-1-19 thru 7-1-21 Reconciled to the UT Summary, Purchased Electricity UT Summary Reconciled to Vendor Invoices Jan19-Jun21	-	PP
16	Square footage data- Gross Square Footage data sheet	-	PP
17	Gas bills jan 2019 to jun 2021	-	PP
18	Fuel consumption record- Abbott Power Plant Coal Usage from 1-1-19 thru 7-1-21 Reconciled with the UT Summary, Abbott Power Plant Natural Gas Usage 1-1-19 thru 7-1-21-Reconciled to the UT Summary	-	PP
19	Methodology-VM0025 Campus Clean Energy and Energy Efficiency Methodology Tool- VMD0038 Campus Clean Energy Efficiency Module	Ver 1.0, 12-Feb-2014 Ver 1.0	Publicly Available
20	VCS Standard	4.7	Publicly Available
21	VCS Program Guide	4.4	Publicly Available

APPENDIX 4: TEAM COMPETENCY

Personnel Name		Ms. Deeksha Upadhyay				
Schemes	☒ CDM	☒ GCC	☒ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (Cercarbono, ISO 14064, ISO 14067, SD ViSta, LCA)
Qualified to work as						
Team Leader			☒	Technical Expert		☐
Validator/Verifier			☒	Financial Expert		☐
Technical Reviewer			☐	Local Expert (India)		☒
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
SS 3: Energy Demand			TA 3.1: Energy Demand			
Approved by (Manager Competency and Training)			Mr. Dushyant Parashar			
Approval date			28-05-2026			

Personnel Name		Bharath S.				
Schemes	☒ CDM	☒ GCC	☒ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (Cercarbono, SDViSta, ISO14064)
Qualified to work as						
Team Leader			☒	Technical Expert		☒
Validator/Verifier			☒	Financial Expert		☐
Technical Reviewer			☒	Local Expert		☒

Area(s) of Technical Expertise	
Sectoral Scope	Technical Area
SS 1: Energy industries (renewable/non-renewable sources)	TA 1.2. Renewables
SS 3: Energy Demand	TA 3.1: Energy Demand
Approved by (Manager Competence & Training)	Mr. Dushyant Parashar
Approval date	11-09-2024

Personnel Name		Dr D Siddaramu			
Schemes	☒ CDM	☒ GCC	☒ GS	☒ VCS	☒ Other GHG Schemes (VCS CCB, SD Vista, ISO14067)
Qualified to work as					
Team Leader			☒	Technical Expert	
Validator/Verifier			☒	Financial Expert	
Technical Reviewer			☒	Local Expert (India)	
Area(s) of Technical Expertise					
Sectoral Scope			Technical Area		
SS 01: Energy industries (renewable/non-renewable sources)			TA 1.1: Energy generation from Thermal energy		
			TA 1.2: Energy generation from renewable energy sources		
SS 3: Energy demand			TA 3.1. Energy Demand		
SS 14: Afforestation and reforestation			TA 14.1 Afforestation and reforestation		
Approved by (Manager C&T)			Dushyant Parashar		
Date of Approval			26-11-2024		

Personnel Name		John Westley			
Schemes	☐ CDM	☐ GCC	☐ GS	☐ VCS	☐ Other GHG Schemes (mention here)
Qualified to work as					
Team Leader			☐	Technical Expert	☒
Validator/Verifier			☐	Financial Expert	☐
Technical Reviewer			☐	Local Expert (USA)	☒
Area(s) of Technical Expertise					
Sectoral Scope			Technical Area		
SS 15: Agriculture			TA 15.1: Agriculture		
Approved by (Manager Competence & Training)			Dushyant Parashar		
Approval date			16-07-2024		

Personnel Name		Mr. Ashwin Kumar K V				
Schemes	☐ CDM	☒ GCC	☒ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (Cercarbono, SDvista, ISO 14064)
Qualified to work as						
Team Leader			☒	Technical Expert	☒	
Validator/Verifier			☒	Financial Expert	☐	
Technical Reviewer			☒	Local Expert	☒	
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
SS 1: Energy industries			TA 1.2. Renewables			

(Renewable / Non-Renewable Sources)	
SS 3: Energy Demand	TA 3.1: Energy Demand
SS 9: Metal production	TA 9.1. Aluminum and magnesium production
Approved by (Manager Competence & Training)	Mr. Dushyant Parashar
Approval date	02-06-2025

Personnel Name		Mr. Praveen N Urs				
Schemes	☒ CDM	☒ GCC	☐ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (VCS CCB, ICR, CERCARBONO, Social Carbon, ISO 14064)
Qualified to work as						
Team Leader				☒	Technical Expert	
Validator/Verifier				☒	Financial Expert	
Technical Reviewer				☒	Local Expert (India)	
Area(s) of Technical Expertise						
Sectoral Scope				Technical Area		
SS 1: Energy industries (renewable/non-renewable sources)				TA 1.1: Thermal energy generation		
				TA 1.2: Renewable		
SS 13: Waste handling and disposal				TA 13.1: Solid waste and wastewater		
				TA 13.2: Manure		
SS- 14: Afforestation and Reforestation				TA- 14.1: Afforestation and Reforestation		
SS – 15 – Agriculture				TA 15.1: Agriculture		
Approved by (Manager Competence & Training)				Mr. Dushyant Parashar		
Approval date				12-05-2024		



Certificate of Competence
CDM-D-43 (Version 1.1, Jan 2023)

Certificate of Competence

Personnel Name		Mr. Ashish Yadav				
Schemes	☒ CDM	☒ GCC	☒ GS	☒ VCS	☒ A6.4	☒ Other GHG Schemes (Cercarbono, <u>SDvista</u> , VCS CCB)
Qualified to work as						
Team Leader			☒	Technical Expert		☒
Validator/Verifier			☒	Financial Expert		☐
Technical Reviewer			☒	Local Expert (India)		☒
Area(s) of Technical Expertise						
Sectoral Scope			Technical Area			
SS: 1 Energy Industries (Renewable/non- renewable)			TA 1.1 Thermal Energy Generation			
			TA 1.2. Renewables			
SS: 3 Energy demand			TA 3.1 Energy demand			
SS 13: Waste handling and disposal			TA 13.1. Solid waste and wastewater			
Approved by (Manager C&T)			Mr. Dushyant Parashar			
Approval date			08-07-2025			