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Audit Report - Solar Farm #310

Overview

GCA: Fatima Khaziyeva

Location: 2904 W 500 S, Salt Lake City, Utah 84104

Coordinates: 40.759037, -111.961401

Solar Panels:

Quantity: 200

Brand and Model: VSUN400-108M-BB by VSUN

Warranty: 25 years

System Wattage Output: 80.00 kW DC, 50.00 kW AC

Installation and Operations:

Installation Date: After April 24, 2024

PTO Date: N/A

Short ID: 310

Carbon Footprint & Production:

Average Sunlight per day: 4.822 hours

Adjusted Weekly Carbon Credits = 1.1799

Weekly Total Carbon Debt = 0.4866

Net Carbon Credit Earnings Weekly = 0.6933

Protocol Fees: \$129,564.96

Final Cost of Power: \$0.1406 per kWh

Solar Farm Site Profile

Tests performed by GCA	Results	Reference
Inspected the Residential Solar Energy System Purchase Agreement to verify the legal name of the entity owning the solar farm.	Owner: Solar Farm #310	Residential Solar Energy System Purchase Agreement
Inspected the Residential Solar Energy System Purchase Agreement, and conducted on-site verification to ensure the geographic coordinates of the solar farm are accurate.	40.759037, -111.961401	Residential Solar Energy System Purchase Agreement & Screenshot of GCA phone location
Inspected the Plan sets, and conducted an on-site physical verification to corroborate the size of the solar farm as stated in the documents.	80.00 kW DC, 50.00 kW AC	Planset p.1 & Audit Pictures
Inspected the Mortgage Statement Document, and conducted on-site verification to confirm the address and the zip code of the property.	2904 W 500 S, Salt Lake City, Utah 84104	Mortgage Statement & Residential Solar Energy System Purchase Agreement
Conducted on-site verification to visually confirm the installation of solar panels on the property	<p>There are six sections of panels. First section with 28 panels, the second section with 28 panels, the third section with 36 panels, the fourth section with 36 panels, the fifth section with 36 panels and the sixth section with 36 panels. For a total of 200 panels.</p> <p>The location is under the drone no-fly zone in Salt Lake City and it was not possible to get drone footage. Jared Morgan had to take pictures directly from the rooftop.</p>	Audit Pictures
Conducted on-site verification to visually assess the general condition and features of the property.	The solar panels are new and in good condition. They are located on the rooftop of the warehouse.	Audit Pictures

Solar Panel details

Tests performed by GCA	Results	Reference
Inspected the document and conducted on-site verification to confirm the brand and model of the solar panels installed	VSUN400-108M-BB by VSUN	Planset [p.7] Audit pictures
Inspected the Manufacturer Warranty Document to verify the warranties provided for the solar panels	25-year warranty by Canadian Solar	Planset [p.7]
Inspected the Installation Approval by Salt Lake City Building Department and conducted on-site verification to confirm the installation method of the solar panels	Installed professionally, adhering to industry norms.	Inspection and Permit document

Calculation of the Expected Carbon Credit Production

Conducted calculations based on the specifications of the solar panels, historic data from WattTime and NASA, and any expected degradation to determine the expected carbon credit production per megawatt hour of electricity produced. For an in-depth understanding of these calculations, reference is made to the '[Assumption Documentation](#)'.

Coordinates: 40.759037, -111.961401

Average Sunlight per day: 4.822 hours

Carbon Credit Production per MWh: 0.6723

Calculations:

<http://95.217.194.59:35015/api/v1/geo-stats?latitude=40.759037&longitude=-111.961401>

Legal Documents

Tests performed by GCA	Results	Reference
Inspected the document to verify the ownership of the electricity generated by the solar panels	Ownership of the electricity generated by the solar panels has been confirmed.	Residential Solar Energy System Purchase Agreement
Inspected the document to verify the authorization for certifying carbon credit	The document has been inspected and verified for proper authorization to certify carbon credits.	Residential Solar Energy System Purchase Agreement

Inspected the document and verified the solar farm owner's signature authorizing the list of information permitted for online publication	The solar farm owner's signature authorizing the list of information for online publication has been inspected and confirmed.	Residential Solar Energy System Purchase Agreement
Inspected the document to verify the details concerning the long-term operation of the solar panels	The document detailing the long-term operation plans and specifications of the solar panels has been inspected and verified.	Residential Solar Energy System Purchase Agreement
Inspected the document and verified the solar farm owner's signature authorizing the installation and utilization of monitoring equipment	The solar farm owner's authorization for the installation and utilization of monitoring equipment has been inspected and validated.	Residential Solar Energy System Purchase Agreement
Inspected the document and verified the solar farm owner's signature authorizing additional auditor visits.	Confirmation was obtained on the solar farm owner's signature authorizing additional auditor visits as per the inspected document.	Residential Solar Energy System Purchase Agreement

Carbon Footprint Assessment & Calculations

In the assessment of the carbon footprint of the solar farm using monocrystalline technology, the harmonized emission result of 40g CO₂-eq/kWh was applied. This figure is anchored in assumptions such as ground-mount application, solar irradiation of 2,400 kWh/m²/yr, a performance ratio of 0.8, and a panel lifetime of 30 years. For an in-depth understanding of these assumptions, reference is made to the '[Assumption Documentation](#)'.

Tests performed by GCA	Results	Reference
Conducted independent calculations to assess the weekly minimum carbon payment required	<p>The carbon payment plan is an automated process, subtracted directly from the farm's weekly carbon credit production. This system does not involve any actual monetary transfers. Additionally, a crucial safeguard is in place whereby an owner cannot default on these carbon payments, as auditors will not certify any farm whose debt payments exceed its capacity to offset.</p> <p>Adjusted Weekly Carbon Credits = 1.1799 Weekly Total Carbon Debt = 0.4866 Net Carbon Credit Earnings Weekly = 0.6933</p>	Detailed calculations [p1]

Disaster Risk Assessment

In the disaster risk assessment of the solar farm, a conservative failure rate of 1% within the first 10 years of operation in the United States was adopted. This rate is derived from extensive research on historical failure rates and professional surveys, coupled with a conservative approach to accommodate unforeseen circumstances. Consequently, the per-year failure rate is calculated to be 0.17%. For a comprehensive explanation of the underlying assumptions and methodology, refer to the detailed information provided in the '[Assumption Documentation](#)'.

Technical Innovations

Upon physical inspection, it was observed that the solar farm employs standard commercial solar panels and does not feature any distinct technological innovations.

Communication Channels

The owner has acknowledged receipt and understanding of the established protocols for post-audit communication. This includes a comprehensive system for reporting any incidents, abnormalities, or significant changes that may occur following audit activities. Additionally, the owner confirms having received an updated list of contacts designated for post-audit communication purposes. A commitment has been made to adhere strictly to these protocols

and to promptly report any valuable changes or findings in accordance with the outlined procedures. The full details of these declarations and compliance are documented in the referenced 'Residential Solar Energy System Purchase Agreement'.

GCA information

This audit report has been prepared and finalized by an auditor who has fully complied with and signed the required clauses as outlined in the 'Auditor Disclosure and Declaration Document'. These clauses include the auditor's non-ownership of solar farms, non-possession of Glow tokens unless staked, non-ownership of unretired carbon credits, restriction on owning stocks or tokens outside of broad market exposure index funds, absence of business conflicts of interest, and adherence to the Glow International Code of Conduct. Additionally, the auditor has agreed to maintain a low community profile, with an undertaking to retire if they exceed a threshold of 5,000 social media followers/friends, ensuring unbiased and impartial auditing. The full details of these declarations and compliance are documented in the referenced 'Auditor Disclosure and Declaration Document'.

Conclusion

The audit confirms that the solar farm's location and specifications match the owner's reported information. The audit confirms that the solar farm meets these specifications, qualifying it for Glow Labs' incentive protocol.

The on-site inspection was fully completed on August 6th, 2024.

Appendix - Calculations

carbon debt per KWh	value	details				
carbon footprint (CO2 g/KWh)	40	see assumption document				
convert grams to metric tons	0.00004	conversion				
solar irradiation (total h/y)	2400	see assumption document				
performance ratio	0.8	see assumption document				
panel lifetime (y)	30	see assumption document				
total carbon debt per KWh	2.304					
adjustment due to uncertainty	35%	see assumption document				
total carbon debt adjusted per KWh	3.1104					
Adjusted carbon debt	value	details				
annual interest rate	0.17%	see assumption document				
Commitment (y)	10	see assumption document				
total adjusted carbon debt per KWh	2.343					
weekly production	value	details		weekly Carbon debt	value	details
Power Output (MWh)	0.0800	based on solar production (see planset doc)		total carbon debt adjusted (KWh)	3.1104	calculated above
Hours of Sunlight Per Day	4.8216	based on NASA data API		Power Output (MWh)	0.0800	based on solar production (see planset doc)
Weekly Power Production (MWh)	2.7001			convert to KW	80.0000	conversion
Carbon Offsets per MWh	0.6723	based on WattTime data API		Total Carbon Debt produced	248.8320	
Weekly Carbon Credits	1.8152			disaster risk assesement per year	0.0017	see assumption document
adjustment due to uncertainty	0.3500	see assumption document		Commitment (y)	10.0000	see assumption document
Adjusted Weekly Carbon Credits	1.1799			Adjusted Total Carbon Debt	253.0189	
				Weekly Total Carbon Debt	0.4866	
NET Carbon Credit Earnings weekly	0.6933					

Protocol fees calculations			Address:	2904 W 500 S, Salt Lake City, Utah 84104
First Year Electricity Old Price	value	details	Coordinates:	40.759037, -111.961401
Previous Electricity Price (paid by user) (in kW)	\$0.1406	see electrical usage bill (Billing Date April 8th, 2024)	API Link:	http://95.217.194.59:35015/api/v1/geo-stats?latitude=40.759037&longitude=-111.961401
convert kW to mW	1000	conversion	average_sunlight input	4.821581479
Hours of Sunlight Per Day	4.822	based on NASA data API	average_carbon_certificates input	0.6722855195
Power Output (MWh)	0.08	based on solar production (see planset doc)	system size	80
number of days	365.25			
First Year Electricity Old Price	\$19,801.62			
Lifetime Old Electricity Value	value	details		
First Year Electricity Old Price	\$19,801.62	calculated above		
Previous Escalator (estimated)	1.87%	see escalator reference for UT: https://www.solarreviews.com/blog/average-electricity-cost-increase-per-year		
Commitment (years)	10			
Present Value	\$220,003.15			
Protocol Cash Requirements	value	details		
Cashflow Discount	11.00%	see assumption document		
Commitment (years)	10			
Lifetime Old Electricity Value	\$220,003.15	Calculated above		
Present Value	\$129,564.96			
Protocol fees	\$129,564.96			
Detailed Energy Cost Calculation - April 2024				
Total kWh usage	2545		details	
Charges and Fees				
Winter Block 2 kWh	0.103725			
Summer Block 2 kWh	0.11721			
Average Price per kWh	0.11047			
Base Price of usage (usage x Average Price)	281.140			
	Fee amount			
Renewable Energy Adjustment	-0.13			
Energy Balancing Account	22.67			
Customer Efficiency Service	10.89			
Electric Vehicle Infrastructure	0.83			
Municiple Energy Sales/Use Tax	18.46			
Utah Sales Tax	23.84			
Total Fees	76.56			
Total Cost (Base Price + Total fees)	357.700			
Total Price per kWh (total cost / Total kWh use)	0.1406			

Price per kWh is based off of the average of the summer and winter block 2 price from Rocky Mountain Power

Base price of usage is calculated by taking the average of the block 2 summer and winter charge and multiplying the block 2 usage.

Detailed Account Activity							
ITEM 3 - ELECTRIC SERVICE				2904 W 500 S Bldg 2 Salt Lake City UT Commercial Schedule 23			
METER NUMBER	SERVICE PERIOD	From	To	ELAPSED DAYS	METER READINGS	Current	METER MULTIPLIER
341764950	Mar 7, 2024	Apr 5, 2024	29	11084	13629	1.0	2.545 kwh
341764950	Demand	Apr 5, 2024			21.36	1.0	21 kw
Next scheduled read date: 05-06. Date may vary due to scheduling or weather.							
NEW CHARGES - 04/04				UNITS	COST PER UNIT		CHARGE
Basic Charge - 3P							10.00
Demand Charge				6 kw	7.8700000		47.22
Energy Charge 1ST 1500 Kwh				1,500 kwh	0.1036460		155.47
Energy Charge > 1500 Kwh				1,045 kwh	0.0580240		60.64
Renewable Energy Adjustment					-0.0005000		-0.13
Energy Balancing Account					0.0861000		22.67
Customer Efficiency Services					0.0381000		10.89
Elec Vehicle Infrastructure					0.0029000		0.83
Home Electric Lifeline Program							0.26
Municipal Energy Sales/use Tax					0.0600000		18.46
Utah Sales Tax Non-residential					0.0775000		23.84
Total New Charges							350.15

Appendix - Protocol fees - Proof of payment

Transaction hash:


0x4220aa5e88b7d7c72ffc57893a2988832442831ce7b91a34c953e43474e93320

Etherscan link:

<https://etherscan.io/tx/0x4220aa5e88b7d7c72ffc57893a2988832442831ce7b91a34c953e43474e93320>

Amount paid: 129,564.96 USDG

Date of payment: Aug-06-2024 08:36:11 PM UTC

Transaction Hash:	0x4220aa5e88b7d7c72ffc57893a2988832442831ce7b91a34c953e43474e93320
Status:	Success
Block:	20471955 519 Block Confirmations
Timestamp:	1 hr ago (Aug-06-2024 08:36:11 PM UTC)
Transaction Action:	Transfer 129,564.96 ERC20 *** To 0xd5970622b740a2eA5A5574616c193968b10e1297
Sponsored:	
From:	0x8c24B6Eeee9091B9af5Fd44B8a20100C45EA05E2
Interacted With (To):	0x6Fa8C7a89b22bf3212392b778905B12f3dBAF5C4
ERC-20 Tokens Transferred:	<div>All Transfers Net Transfers</div> <div>From 0x8c24B6Ee...C45EA05E2 To 0xd5970622...8b10e1297 For 129,564.96 ERC20 ***</div>

Appendix - Evidences Obtained From Solar Farm Owner

The GCA has successfully completed a thorough review and verification process for the following critical documents:

1. Residential Solar Energy System Purchase Agreement
2. Planset
3. Mortgage Statement
4. Two recent Utility Bills
5. City Permit
6. Inspection Document

The owner of the solar farm has chosen not to seek the Permission To Operate (PTO) from the city of Salt Lake. This decision was made after assessing the jurisdictional risks involved. Obtaining the PTO is not a requirement for the farm to participate in the Glow ecosystem. The homeowner has executed a waiver confirming that the farm is operational without the PTO.

- The absence of a PTO does not prevent the solar farm from being part of the Glow ecosystem, as it does not infringe on any fundamental operational requirements set by Glow.
- The GCA's role is not to verify compliance with the city's regulations.
- The homeowner is aware of any potential consequences or risks associated with operating without a PTO.

Appendix - Drone Footage

To ascertain the additionality of the solar farm, the GCA procured drone footage BEFORE the solar panels were installed. This step was vital to confirm that the farm had not previously produced power, aligning with Glow's strict requirement that only new solar farms are eligible for incentives.

The location is under a no-fly zone in Salt Lake City. It was not possible to use drones to obtain footage. The photos before installation were obtained by Jared Morgan on April 24th, 2024.

After the solar panels were installed the GCA acquired new drone footage. This subsequent step ensured that the panels were correctly installed and that their quantity matched the specifications outlined in the plansets.

The location is under a no-fly zone in Salt Lake City. It was not possible to use drones to obtain footage. The photos after installation were obtained by Jared Morgan on August 6th, 2024.

Appendix - Cost of Power Verification

The determination of the protocol fee involves the homeowner submitting a utility bill, which outlines their power expenses. To ensure the integrity of this fee calculation, the GCA cross-reference the utility bill with publicly available data from the utility provider regarding local power rates.

The GCA accessed the Standard Residential Rates from Rocky Mountain Power Utilities, applicable in Washington. For the protocol fee calculation, the rate of \$0.1406 per kWh, was applied.

Appendix - Assumptions document

Assumptions Documentation

This document outlines the assumptions and methodologies employed in the audit of solar farms. It is intended to provide a clear basis for the procedures and findings reported in the audit report. This document should be referred to for a deeper understanding of the audit findings and the underpinning rationale for the audit procedures.

Testing Methodologies

Nature of tests performed

Type	Description
Inquiry	Engaged with relevant personnel to gather information and corroborated the details
On-site verification (Observation)	Conducted a thorough observation to verify the application and performance, as well as the physical existence of the solar farm's components
Inspection	Performed a detailed examination of documents, records, or tangible assets to validate their authenticity and relevance to the audit
Calculation	Performed calculations to ascertain various metrics pertinent to the audit scope

Assumptions

Protocol fees

Introduction: When a solar farm joins the Glow network, a protocol fee in USDC is required. This fee is distributed as rewards to carbon credit producers over four years.

Assumption: It's necessary to compute the cost of the protocol fee over a 10-year span. This calculation must encompass potential variations in electricity pricing and consider the long-term financial implications for the solar farm.

Methodology:

First Year Electricity Price Calculation: Begin by calculating the first year of electricity price using the following formula: Previous Electricity Price in kW × Hours of Sunlight Per Day × Power Output (MW) Per Hour × number of days.

Present Value Calculation: Next, extrapolate this first-year electricity price over a 10-year period, accounting for potential escalations in electricity prices. The escalation rate is dependent on the state in which the farm is located, with data sourced from reliable industry insights. This approach assumes that electricity prices will increase over time, which is a significant factor in the economics of solar energy.

Cash Discount Application: Apply a cash discount of 11% to the present value calculation. This rate is derived from doubling the current federal rate (estimated at 5.5%), with the rationale being the relative ease of surpassing this federal rate under current economic conditions. This 11% rate is specifically for the beta period of Glow, incentivizing early solar farm onboarding. After the beta phase, the standard federal rate will be used for discount calculations.

References

- <https://www.solarreviews.com/blog/average-electricity-cost-increase-per-year>

Disaster Risk Assessment

Assumption: A conservative failure rate of 1% is assumed for solar farms within the first 10 years of operation in the United States.

Methodology: Extensive research on historical failure rates of solar farms in the United States within the first 10 years has been conducted, with a conservative multiplier applied. Furthermore, professional surveys have been conducted. Despite discussions with solar professionals indicating a failure rate far below 1% over the lifetime of the solar farm, a conservative estimate of 1% was chosen to account for unforeseen circumstances. The per-year rate is 0.17%.

Carbon Credit Estimation Calculation

Assumption: WattTime's historical data is reliable and accurate for conducting calculations related to carbon credit production.

Methodology: Calculations were conducted based on the specifications of the solar panels and using historical data from WattTime. WattTime, a reputable non-profit organization in the emissions reduction domain, provides robust technology solutions for such assessments. Additionally, the methodology incorporates data from NASA's API to determine the expected number of sunlight hours for a solar panel in a specific location. This data is crucial for accurately estimating the average hours of sunlight per day and the average carbon offset per MWh.

To calculate the expected lifetime carbon credit production, the power capacity of the solar panels is multiplied by the sunlight hours, integrating both WattTime's and NASA's data. The script iterates over historical data from the WattTime API, combined with NASA's sunlight data, to estimate the number of credits a panel would have produced annually.

A 35% discount is then applied to the final carbon production value. This conservative approach is designed to account for any uncertainties in the calculations, ensuring that the results are within safety margins. This not only enhances the credibility of the protocol and methodology but also positions the analysis positively, especially when subjected to detailed reviews.

Real-Time Monitoring: It should be noted that for real-time monitoring of power output, NASA data is not utilized; instead, this monitoring relies on the installed equipment at the solar farm. This data can be cross-referenced with NASA's data if any discrepancies or suspicions arise, providing an additional layer of verification and accuracy.

Reference:

- https://github.com/glowlabs-org/gca-backend/blob/main/watttime-scripts/carbon_credits_per_kw.py

Carbon Footprint Assessment

Assumption: Considering the inherent variability in life cycle assessment (LCA) results for solar technologies as per ISO 14040 and 14044 standards, we have selected the highest value from NREL's harmonized data set for our conservative approach. This decision acknowledges the ISO standards' provision of a flexible framework for LCA, which can lead to a broad range of outcomes depending on the practitioner's choices. By adopting the highest value, we aim to account for the upper bound of potential environmental impacts, thereby ensuring that our audit conclusions are robust against the variability in LCA practices.

Methodology: The methodology involves utilizing the harmonized LCA results, which are refined by NREL to enhance precision and reduce variability. By adhering to a consistent set of methods and assumptions, harmonization narrows the range of greenhouse gas (GHG) emissions estimates, allowing us to base our audit on a more reliable and standardized benchmark.

It is important to note the specific harmonized greenhouse gas (GHG) emissions medians identified in our assessment. For monocrystalline Silicon (mono-Si), the harmonized GHG median is 40 g CO₂-eq/kWh, and for multi-crystalline Silicon (multi-Si), it is 47 g CO₂-eq/kWh. These values are calculated based on assumptions of ground-mount application, solar irradiation of 2,400 kWh/m²/yr, a performance ratio of 0.8, and a panel lifetime of 30 years. By integrating these specific medians into our assessment, we ensure a comprehensive and precise understanding of the potential environmental impacts of these solar technologies.

A 35% adjustment is then applied to the total carbon debt. This conservative approach is designed to account for any uncertainties in the calculations, ensuring that the results are within safety margins. This not only enhances the credibility of the protocol and methodology but also positions the analysis positively, especially when subjected to detailed reviews.

Detailed calculations:

Initial Calculation:

40 grams CO₂ per kWh (emissions rate).
Multiplied by 2400 hours per year (operational hours).
Multiplied by 0.8 (performance ratio).
Multiplied by 30 years (lifespan of the panels).

Adjusted Carbon Debt:

Calculated by adding a 0.17% annual interest rate.
The total carbon debt is multiplied by 1.0017¹⁰ to account for 10 years.

Weekly Debt Payment:

Determined by dividing the final carbon debt by 520 weeks (which accounts for 10 years, considering 52 weeks per year).

Reference:

- [NREL harmonized life cycle assessments \(LCAs\)](#)
- [Methodology Guidelines on Life Cycle Assessment of Photovoltaic Electricity](#)
- https://www.ipcc.ch/site/assets/uploads/2018/02/ipcc_wg3_ar5_annex-iii.pdf p.7
- <https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1530-9290.2011.00423.x> p.9
 - Research base on solar irradiation of 2,400 kilowatt-hours per square meter per year (kWh/m²/yr) and lifetime = 30 years
- <https://onlinelibrary.wiley.com/doi/pdf/10.1111/j.1530-9290.2011.00439.x>

- The harmonized GHG medians decline to 40 g CO₂-eq/kWh for mono-Si and 47 g CO₂-eq/kWh for multi-Si.

CGA Disclosure and Declaration Document

CGA Personal and Professional Information

Name: Fatima Khaziyeva

Nationality: Canada

Declarations

1. No Ownership of Solar Farms:

I hereby declare that I do not own or operate more than one solar farm.

2. Glow Tokens Holding:

I declare that I do not own any Glow tokens, unless staked in accordance with company policies.

3. Carbon Credits:

I confirm that I do not own any unretired carbon credits.

4. Stocks and Tokens Ownership:

I declare that I do not own stocks or tokens, except for those within broad market exposure index funds.

5. Conflict of Interest:

I confirm the absence of any business conflicts of interest that could affect my impartiality as an auditor.

6. Code of Conduct Compliance:

I acknowledge having read, understood, and agreed to adhere to the Glow International Code of Conduct.

7. Community Presence and Popularity Clause:

I acknowledge that as a Glow Certified Auditor (GCA), it is imperative to maintain a low profile within the community to ensure unbiased and fair auditing processes. I agree that:

- If I previously expressed thoughts or opinions publicly, I understand these should not influence my role as a GCA.
- I will not leverage my position or knowledge gained as a GCA to become a known figure within the Glow ecosystem, recognizing the importance of an unbiased and impartial audit process.

Signature

The undersigned hereby agrees to the above terms and confirms that all statements made are true and accurate to the best of my knowledge.

Name: Fatima Khaziyeva

Signature: *Fatima Khaziyeva*

Date: August 6th, 2024