



## ASOCIACIÓN DE NORMALIZACIÓN Y CERTIFICACIÓN, A.C.

Organismo de Validación/Verificación de Gases de Efecto Invernadero acreditado por ema para los sectores **Generación de energía y Transacciones de Energía Eléctrica, Manufactura en general** (transformación física o química de materiales y sustancias en productos nuevos), **Exploración de petróleo y gas**, así como su extracción, producción y refinación, y distribución por tuberías, incluyendo petroquímicos, **Producción de metales, Producción de aluminio, Minería y producción mineral, Pulpa, papel e impresiones, Producción química, Captura y almacenamiento de carbono, Transporte, Agricultura, silvicultura y otros usos de tierra (AFOLU/ASOUT) y General** indicados en el escrito con número de acreditación **GEI 001/15**. Con fecha de entrada en vigor: **26/06/2015** y fecha de actualización **22/07/2022**

Mexico City  
Date of issue: 04/13/2023

Validation Statement for the  
Climate Change Mitigation Project

# Solar water heating systems Guanajuato

Prepared by:

## Secretaría de Medio Ambiente y Ordenamiento Territorial (SMAOT)

Validation process executed under the approach defined by the:  
**BioCarbon Registry Standard for the Voluntary Carbon Market**

*Specification with guidance for the validation and verification of greenhouse gas declarations according to the GHG Project Validation and Verification Manual.*

To validate that the GHG mitigation project has been developed in accordance with the requirements of:

### **STANDARD FOR THE VOLUNTARY CARBON MARKET** **BioCarbon Registry**

The Greenhouse Gas Emissions Mitigation Project Report prepared by the Secretaría de Medio Ambiente y Ordenamiento Territorial (SMAOT) is substantially correct, being a faithful representation of the information and data on net GHG reductions in tCO<sub>2</sub> equivalents referred to below:

## 56,248 tCO<sub>2</sub>e validated

Ing. Excalibur Ernesto Acosta Miranda  
Lead validator  
04/12/2023

Ing. Janai Monserrat Hernández Contreras  
Independent Reviewer  
04/12/2023

EL PRESENTE DICTAMEN NO TIENE VALIDEZ SIN SU INFORME DE VERIFICACIÓN CORRESPONDIENTE

## Validation Statement for the Climate Change Mitigation Project

Prepared by:

Secretaría de Medio Ambiente y Ordenamiento Territorial (SMAOT)

### Validation Report

The Asociación de Normalización y Certificación, A.C. (ANCE), through its Validation/Verification Body of Emission Declarations and Greenhouse Gas Projects (OVV-GEI) with address at Eje Lázaro Cárdenas, No. 869, Fracc. 3, Col. Nueva Industrial Vallejo, Delegación: Gustavo A. Madero, Mexico City, C.P. 07700; was contracted by MERCADO AMBIENTAL AP S.C., as developer, and by Secretaría de Medio Ambiente y Ordenamiento Territorial (SMAOT), as project proponent, located at Cam. Aldana 12, Pueblito de Rocha, 36040 Guanajuato, Guanajuato with the purpose of validating its project called Solar water heating systems - Guanajuato for climate change mitigation for the period 01/01/2021 – 12/31/2030.

This statement has been prepared for anyone who may be the ultimate interested party.

<b>Project Name</b>	Solar water heating systems – Guanajuato
<b>Project Proponent</b>	Secretaría de Medio Ambiente y Ordenamiento Territorial (SMAOT)
<b>Project Developer</b>	MERCADO AMBIENTAL AP S.C.
<b>Project proponent's contact information</b>	<a href="mailto:eduarDdP@mexico2.com.mx">eduarDdP@mexico2.com.mx</a>
<b>Project Owner</b>	David Robledo Beanes
<b>Project Holder Contact Information</b>	<a href="mailto:drobledob@guanajuato.gob.mx">drobledob@guanajuato.gob.mx</a>
<b>Project Participants</b>	Secretaría de Desarrollo Social y Humano (SEDESHU); Población beneficiaria; Dirección General de Recursos Materiales, Servicios Generales y Catastro adscrita a la Secretaría de Finanzas, Inversión y Administración (SFIA); Secretaría de la Transparencia y Rendición de Cuentas (STRC) Proveedores de equipos.
<b>DdP Version</b>	2.1
<b>Project Type</b>	Energy - Solar thermal
<b>Grouped project</b>	Yes.
<b>Methodology applied</b>	AMS-I.J.: Solar water heating systems (SWH) - Version 2.0
<b>Project location (City, Country)</b>	State of Guanajuato, Mexico
<b>Start date</b>	01/01/2021
<b>Period of quantification of GHG reductions</b>	01/01/2021 – 12/31/2030
<b>Estimated total and average annual amount of GHG emission reduction</b>	Total: 56,248 tCO <sub>2</sub> Annual average: 5.62 ktCO <sub>2</sub> /año
<b>Validated - estimated total and annual average amount of GHG emissions reduction</b>	Total: 56,248 tCO <sub>2</sub> Annual average: 5.62 ktCO <sub>2</sub> /año
<b>Audit criteria</b>	BioCarbon Registry (BCR)
<b>Work performed by</b>	Excalibur Ernesto Acosta Miranda.

It is certified that the Solar water heating systems - Guanajuato project is validated considering the following parameters:

Year	GHG emissions in the baseline scenario	GHG emissions in the Project scenario	Leakage	Total GHG emission reductions	Net GHG emissions reduction
2021	0.00	N.A.	N.A.	587	587
2022	0.00	N.A.	N.A.	1122	1122
2023	0.00	N.A.	N.A.	3615	3615
2024	0.00	N.A.	N.A.	6529	6529
2025	0.00	N.A.	N.A.	7399	7399
2026	0.00	N.A.	N.A.	7399	7399
2027	0.00	N.A.	N.A.	7399	7399
2028	0.00	N.A.	N.A.	7399	7399
2029	0.00	N.A.	N.A.	7399	7399
2030	0.00	N.A.	N.A.	7399	7399
<b>Total</b>	<b>0.00</b>	<b>N.A.</b>	<b>N.A.</b>	<b>56,248</b>	<b>56,248</b>

Mexico City, 13th april 2023.



Ing. Excalibur Ernesto Acosta Miranda  
Lead Verifier

On behalf of the Association for Standardization and Certification, A.C. and the Greenhouse Gas Validation / Verification Body accredited by **ema** for the sectors **Power Generation and Electric Power Transactions, Manufacturing in general (physical or chemical transformation of materials and substances into new products), Oil and Gas Exploration, as well as its extraction, production and refining, and distribution through pipelines, including petrochemicals, Metal production, Aluminum production, Mining and mineral production, Pulp, paper and printing, Chemical production, Carbon capture and storage, Transportation, Agriculture, forestry and other land uses (AFOLU / ASOUT) and General** indicated in the document with accreditation number **GEI 001/15**, effective date: 06/26/2015.  
Av. Lázaro Cárdenas No. 869, Fracc. 3, Col. Nueva Industrial Vallejo, C.P. 07700, México, Ciudad de México  
Teléfonos: (55) 57 47 45 50 Ext. 4666 y 4671  
e-mail: [yazmin.hernandez@ance.org.mx](mailto:yazmin.hernandez@ance.org.mx); [excalibur.acosta@ance.org.mx](mailto:excalibur.acosta@ance.org.mx); [janai.hernandez@ance.org.mx](mailto:janai.hernandez@ance.org.mx); [jmiguel@ance.org.mx](mailto:jmiguel@ance.org.mx) [lourdes.romero@ance.org.mx](mailto:lourdes.romero@ance.org.mx)

This document is subject to the terms and conditions described below:

Asociación de Normalización y Certificación A.C., its branches and their respective directors or employees assume no responsibility or be obliged to any person for any loss, damage or expense caused by reliance on the information provided in this document or any other means, unless that person has signed a contract with ANCE for delivery of this information. In which case, any responsibility and obligation applies only in the terms and conditions set forth in the contract.

Due to the level of assurance reasonable under which executed the verification process that protects this statement, there is the possibility that substantial discrepancies exist which have not been detected. Also, the verification process under this level of assurance, does not have the ability to identify all weaknesses or significant discrepancies existing in so far as these relate to the requirements of the standard, ISO 14064-3:2019 because the verification was not performed continuously throughout the years reported, being executed from a sampling plan. Any projection of the data to future periods is likely to contain inconsistencies due to the situations expressed above.