



GAS-REC Redemption Statement

This statement confirms that the following GAS-RECS have been withdrawn from the market and are therefore no longer transferable or assignable.

Beneficiary Data

Information	Description
Beneficiary	Beneficiario teste
Beneficiary's Location	Rua california, 21
Beneficiary's Country	Brazil
Redemption Date	15/01/2025
Period of Consumption Report	01/01/2024 31/12/2024
Redeemed GAS-REC Number	50000 MMBTU
Equivalent in MWh	14650
Equivalent in m3	1340000.00
Reason for Redemption	Rastreabilidade do Biogás

Device Details

Information	Description
Device	empresa de teste 21 GAS-REC-0005
Country of production	Brazil
Substrate	Wood products
Biogas application	Biomethane
Use of Biogas or Biomethane	Injected in pipeline
Detailing	teste 2548
Avoided Methane #1	Not considered in the certificate
Avoided Methane Reference	Not applicable
Emission Reduction #2	Not considered in the certificate
Emission Reduction Reference	Not applicable
Commissioning Date	01/01/2023
Emission Factor Considering Life Cycle (tCO ₂ eq/MMBTU) #3	0.2545
Reference	teste 21
Carbon emissions (tCO ₂ eq/MMBTU) - Biogas/Biomethane Burning #4	0
Reference	teste
Biogenic (tCO ₂ /MMBTU) -	0.5269

Information	Description
Biogas/Biomethane Burning #5	
Reference	
Carbon Credit	Not
Carbon Credit Start Date	Not applicable
Carbon Credit Expiration Date	Not applicable
Carbon Credit Methodology	Not applicable
Unit issues CBIO from Renovabio	Not
CBIO issuance start date	Not applicable
CBIO issuance expiration date	Not applicable

#1 This information refers to the calculation of the volume of methane that was no longer emitted into the atmosphere due to this project.

#2 This information represents the volume of CO2 equivalent that was prevented from being emitted into the atmosphere.

#3 This information refers to the total CO2 equivalent over the life cycle of biogas or biomethane production and transportation, excluding CO2 emissions from burning or usage.

#4 This information refers exclusively to the burning factor of biogas or biomethane, taking into account the relevant greenhouse gases and converting them into CO2 equivalent.

#5 This information refers exclusively to the volume of biogenic CO2 emitted during gas burning.

Retired Certificates

ID Certificate	For Certificate ID	Number of Certificates	Production period
0005-BR-AT-00-000000 1-0924	0005-BR-AT-00-005000 1-0924	50000	01/09/2024 - 01/09/2024

The owner of the device retains the rights to issue and trade the carbon credits mentioned in the declaration and the beneficiary cannot claim any right to the carbon credits or offsettings mentioned in the declaration.

This document is proof that the Gas Certificates have been retired for the referred beneficiary and can no longer be transacted with other beneficiaries. The Totum Institute is the auditor responsible for the Brazilian Renewable Gas Certificates (GAS-REC) program. The Totum Institute is not responsible for the application of the declaration issued in the name of the beneficiary. This declaration does not prove that the GAS-REC emitting device meets sustainability criteria or other applicable standards for the same type of device; it only certifies the actual generation of Biogas.

GAS-REC emissions for biomethane up to 2023 used a conversion factor of 26.8 m3/MMBTU. As of 2024, GAS-REC emissions for biomethane began to use the factor of 26.8081 m3/MMBTU, in line with the commercial practices of Registrants (<https://www.gov.br/anp/pt-br/assuntos/movimentacao-estocagem-e-comercializacao-de-gas-natural/acompanhamento-do-mercado-de-gas-natural/acompanhamento-do-mercado-de-gas-natural/cartilha-ranp52-2011-atualizada-08-2022.pdf>).

The volume used for Mwh is 0.293/MMBTU.

