

Global Voluntary Carbon Market:
Analysis By Value, By Traded
Volume, By Credit Retirements, By
Credit Issuance, By Project Category,
By Type of Project, By Region Size
and Trends with Impact of COVID-
19 and Forecast up to 2027

December 2022

Global Voluntary Carbon Market: Coverage

Executive Summary and Scope

Introduction/Market Overview

Global Market Analysis

Regional Market Analysis

Impact Of COVID 19

Dynamics

Competitive Landscape

Company Profiling

Global Voluntary Carbon Market: Coverage

Scope of the Report

Attributes	Details
Title	Global Voluntary Carbon Market: Analysis By Value, By Traded Volume, By Credit Retirements, By Credit Issuance, By Project Category, By Type of Project, By Region Size and Trends with Impact of COVID-19 and Forecast up to 2027
Coverage	Global and Regional
Regional Coverage	Asia (India, China, Indonesia, and Rest of Asia), Latin America (Brazil, Peru, and the Rest of Latin America), Africa, North America (The US, Canada, and Mexico), Oceania, and Europe
Market Influencing Variables	Growth Drivers, Challenges, Market Trends
Forecast Period of Market	2022-2027
Competition in the Market	Fragmented
Key Players	NRG Energy, Inc. (Green Mountain Energy), Just Energy Group Inc. (TerraPass), Ambipar Group (Biofílica Ambipar Environment S.A.), South Pole, 3Degrees Group, Inc., EcoAct, Aera Group, ClimeCo, ClimatePartner, First Climate AG, Vertis Environmental Finance, and NativeEnergy Inc.

Global Voluntary Carbon Market: Coverage

Executive Summary

The voluntary carbon market (VCM) enables carbon emitters to compensate for their unabated emissions by purchasing carbon credits produced by projects targeted at removing or reducing greenhouse gas (GHG) emissions from the atmosphere. The global voluntary carbon market was valued at US\$2,004.85 million in 2021. The market is expected to reach 17.11 billion by 2027, growing at a CAGR of 42.91% during the forecast period of 2022-2027. The voluntary carbon market traded volume has reached 298.15 MtCO₂e in 2021. The traded volume is expected to reach 678.56 MtCO₂e by 2027, growing at a CAGR of 14.69%. The annual credit issuance has increased to 399.96 MtCO₂e in 2021, whereas annual credit retirement has increased to 166.65 MtCO₂e in 2021.

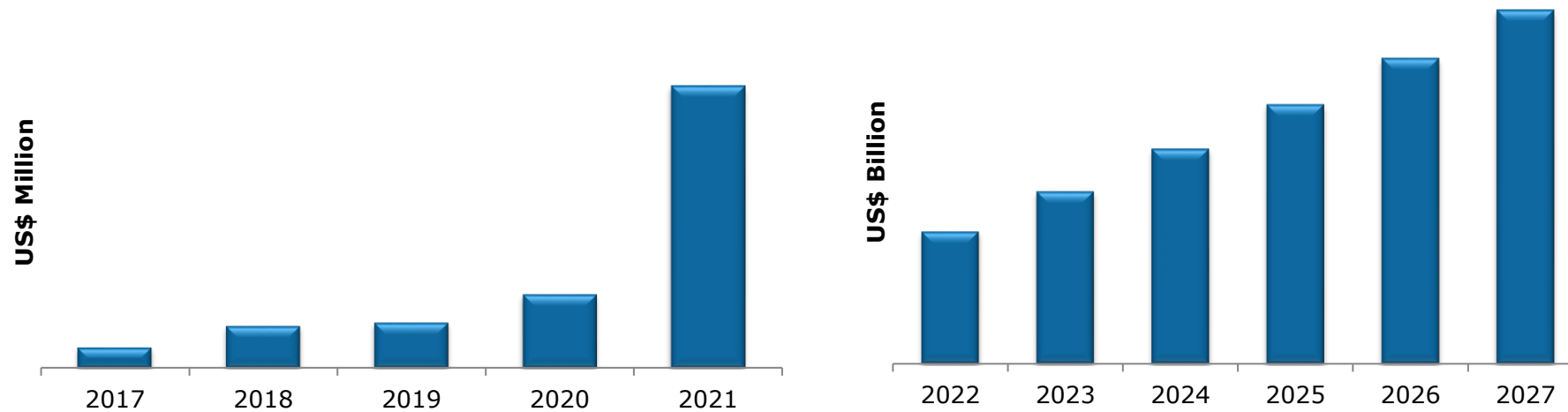
The global voluntary carbon market value, volume, credit issuances and credit retirement has been segmented based on the project category (Forestry and Land Use, Renewable Energy, Chemical Process/Industrial Manufacturing, Household/Community Devices, Waste Disposal, Energy Efficiency/Fuel Switching, Agriculture, and Transportation). Moreover, credit issuance has been bifurcated based on type of project (Tech-Based Avoidance, Nature-Based Avoidance, Nature-Based Removal, and Tech-Based Removal). In terms of value, forestry and land use held the highest share of the market in 2021.

The global voluntary carbon market has experienced positive growth during the pandemic. In 2020, airlines rolled back their purchases to match lower emissions, whereas broader corporate demand for voluntary carbon offsets were increasing. Then, as the year progressed, so did the number of carbon-neutral pledges from individual companies like Amazon and Microsoft. In the post-COVID era, factors such as government support to reduce greenhouse gas emissions are anticipated to drive market growth.

The global voluntary carbon market has increased in 2021. The projections are made that the market would rise in the next five years i.e. 2022-2027 tremendously. The global voluntary carbon market is expected to increase due to the rising carbon emission, increasing corporate efforts in carbon offsetting, increase in adoption of net zero targets, increasing demand for natural climate solutions, establishment of CORSIA, etc. Yet the market faces some challenges such as insufficient governance, no standard measurement of quality, etc. Moreover, the market growth would succeed due to various market trends like growth in direct air capture (DAC), Article 6 agreement redefining global carbon offset markets, emergence of carbon credit rating agencies, etc.

Voluntary Carbon Market: Global Analysis

Global Voluntary Carbon Market by Value

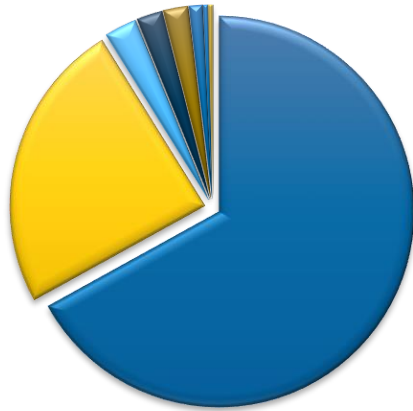


CAGR	
2017-2021	xx%
2022-2027	xx%

The global voluntary carbon market value has increased to US\$... million in 2021 and is anticipated to reach up to US\$... billion by 2027 from US\$... billion in 2022, with a CAGR of xx%.

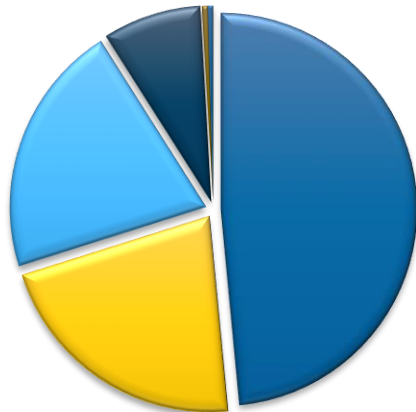
Voluntary Carbon Market: Global Analysis

Global Voluntary Carbon Market by Project Category; 2021



Project Category	Share
Forestry and Land Use	xx%
Renewable Energy	xx%
Chemical Process/Industrial Manufacturing	xx%
Household/Community Devices	xx%
Waste Disposal	xx%
Energy Efficiency/ Fuel Switching	xx%
Agriculture	xx%
Transportation	xx%

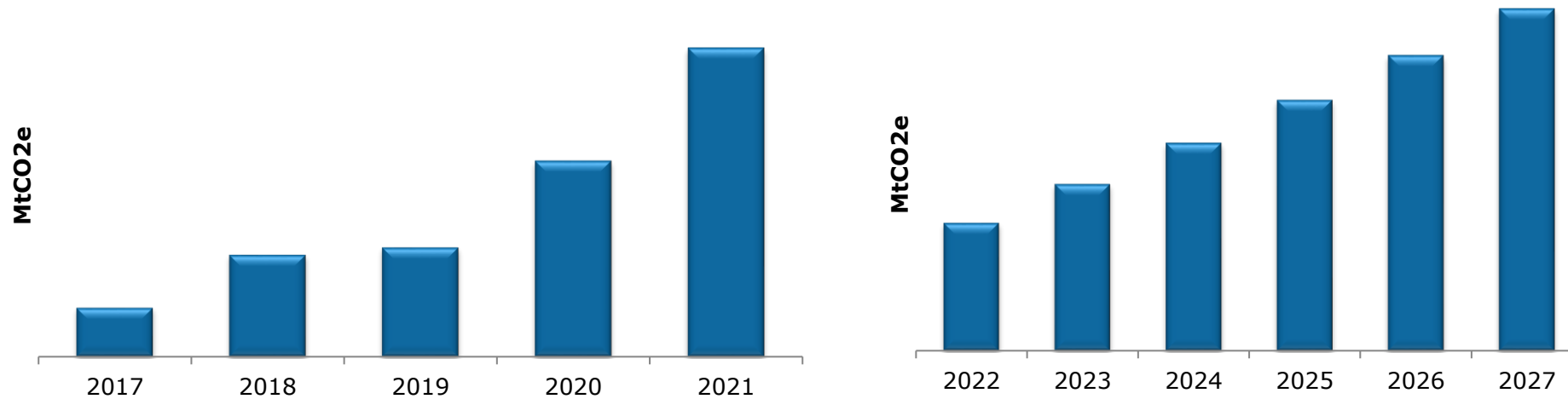
Global Voluntary Carbon Market by Region; 2021



Region	Share
Asia	xx%
Latin America	xx%
Africa	xx%
North America	xx%
Oceania	xx%
Europe	xx%

Voluntary Carbon Market: Global Analysis

Global Voluntary Carbon Market by Traded Volume

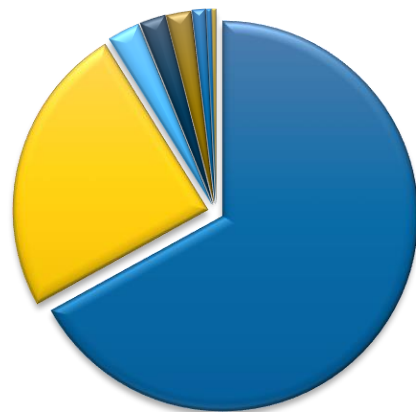


CAGR	
2017-2021	xx%
2022-2027	xx%

The global voluntary carbon market traded volume has increased to ... MtCO2e in 2021 and is anticipated to reach up to ... MtCO2e by 2027 from ... MtCO2e in 2022, with a CAGR of xx%.

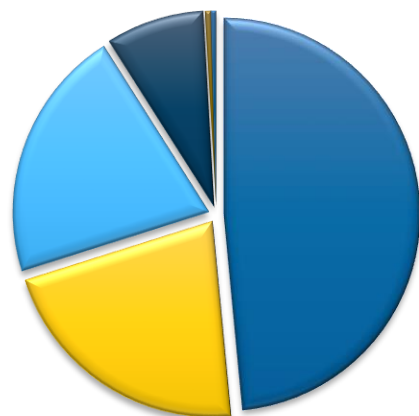
Voluntary Carbon Market: Global Analysis

Global Voluntary Carbon Market Traded Volume by Project Category; 2021



Project Category	Share
Forestry and Land Use	xx%
Renewable Energy	xx%
Chemical Process/Industrial Manufacturing	xx%
Waste Disposal	xx%
Energy Efficiency/ Fuel Switching	xx%
Household/Community Devices	xx%
Transportation	xx%
Agriculture	xx%

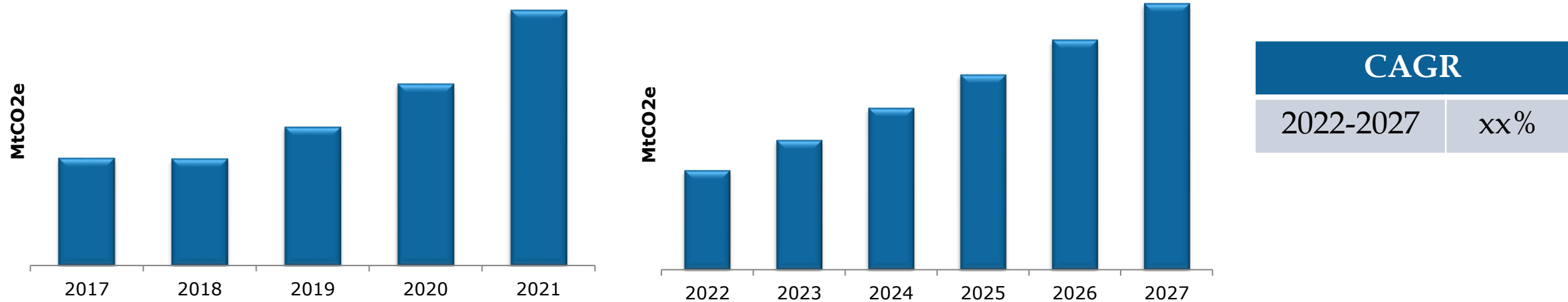
Global Voluntary Carbon Market Traded Volume by Region; 2021



Region	Share
Asia	xx%
Latin America	xx%
Africa	xx%
North America	xx%
Europe	xx%
Oceania	xx%

Voluntary Carbon Market: Global Analysis

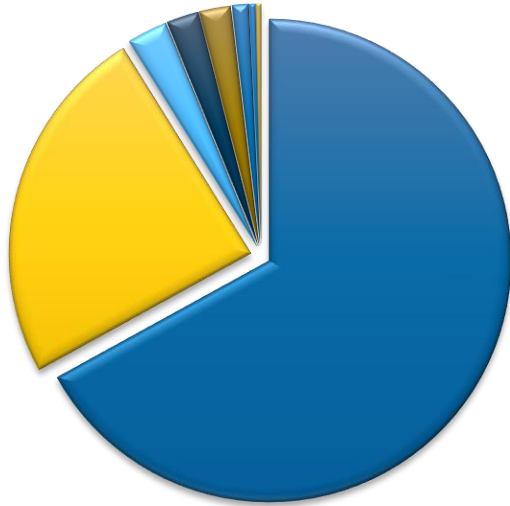
Global Voluntary Carbon Market by Annual Credit Issuance



The global voluntary carbon market annual credit issuance has increased to ... MtCO2e in 2021 and is anticipated to reach up to ... MtCO2e by 2027 from ... MtCO2e in 2022, with a CAGR of xx%.

Voluntary Carbon Market: Global Analysis

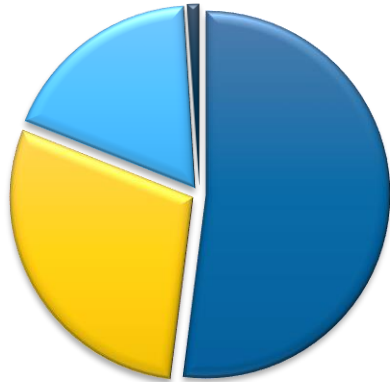
Global Voluntary Carbon Market Credit Issuances by Project Category; 2021



Project Category	Share
Forestry and Land Use	xx%
Renewable Energy	xx%
Chemical Process/Industrial Manufacturing	xx%
Energy Efficiency/ Fuel Switching	xx%
Waste Disposal	xx%
Transportation	xx%
Agriculture	xx%
Others	xx%

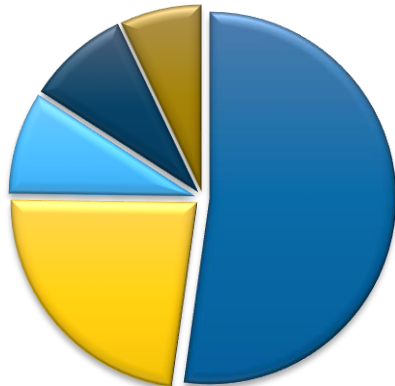
Voluntary Carbon Market: Global Analysis

Global Voluntary Carbon Market Credit Issuance by Type of Project; 2021



Type of Projects	Share
Tech-Based Avoidance	xx%
Nature-Based Avoidance	xx%
Nature-Based Removal	xx%
Tech-Based Removal	xx%

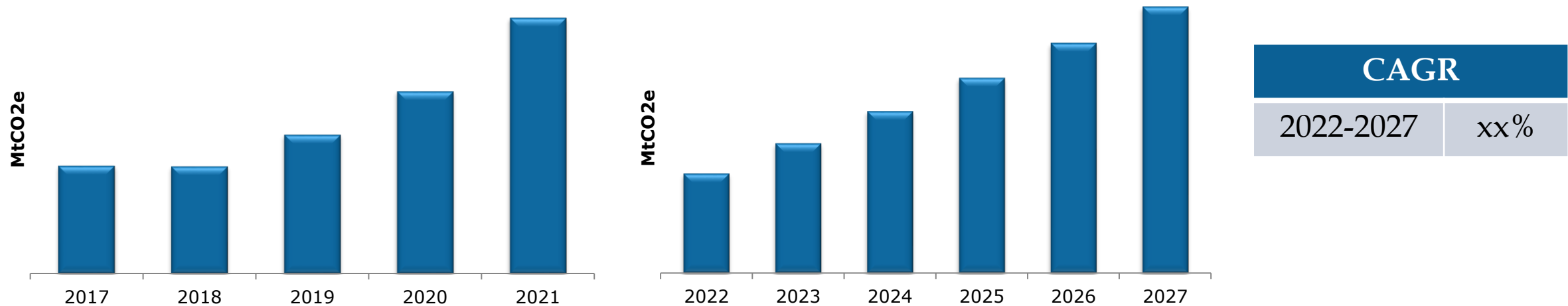
Global Voluntary Carbon Market Credit Issuance by Region; 2021



Region	Share
Asia	xx%
Latin America	xx%
North America	xx%
Europe	xx%
Africa	xx%

Voluntary Carbon Market: Global Analysis

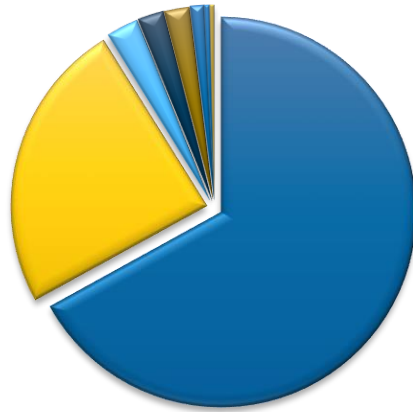
Global Voluntary Carbon Market by Annual Credit Retirement



The global voluntary carbon market annual credit retirement has increased to ... MtCO₂e in 2021 and is anticipated to reach up to ... MtCO₂e by 2027 from ... MtCO₂e in 2022, with a CAGR of xx%.

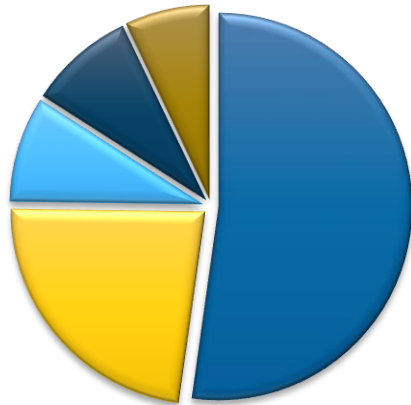
Voluntary Carbon Market: Global Analysis

Global Voluntary Carbon Market Credit Retirement by Project Category; 2021



Project Category	Share
Forestry and Land Use	xx%
Renewable Energy	xx%
Energy Efficiency/ Fuel Switching	xx%
Waste Disposal	xx%
Chemical Process/Industrial Manufacturing	xx%
Agriculture	xx%
Transportation	xx%
Others	xx%

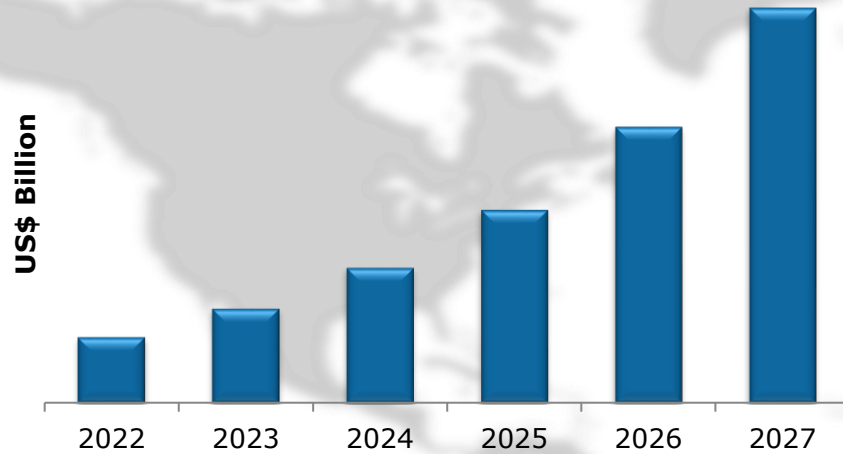
Global Voluntary Carbon Market Credit Retirement by Region; 2021



Region	Share
Asia	xx%
Latin America	xx%
Africa	xx%
North America	xx%
Europe	xx%

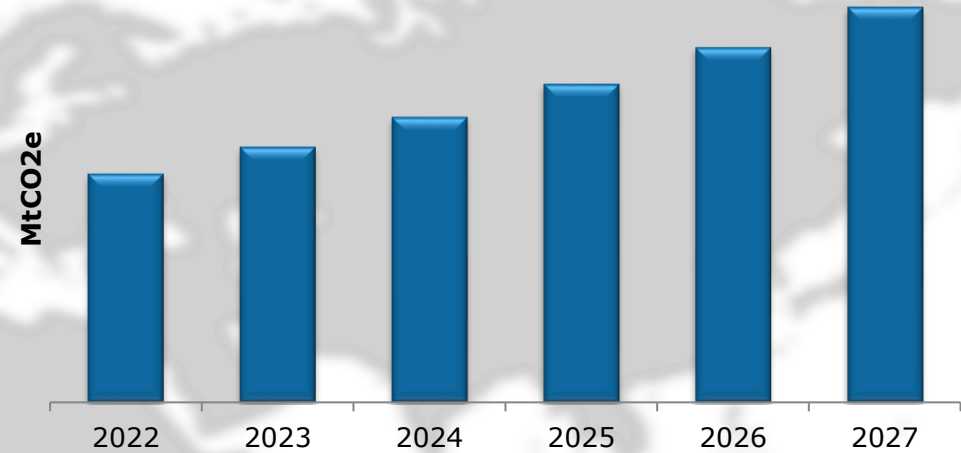
Voluntary Carbon Market: Regional Analysis

Asia Voluntary Carbon Market Value



CAGR	
2017-2021	xx%
2022-2027	xx%

Latin America Voluntary Carbon Market by Traded Volume



CAGR	
2017-2021	xx%
2022-2027	xx%

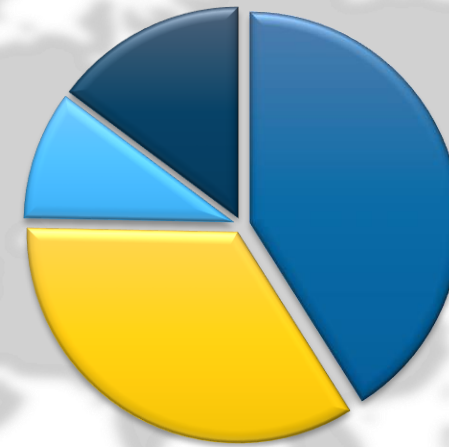
Asia Voluntary Carbon Market : An Analysis

Asia Voluntary Carbon Market by Region; 2021



Region	Share 2021	CAGR (2022-2027)
India	xx%	xx%
China	xx%	xx%
Indonesia	xx%	xx%
Rest of Asia	xx%	xx%

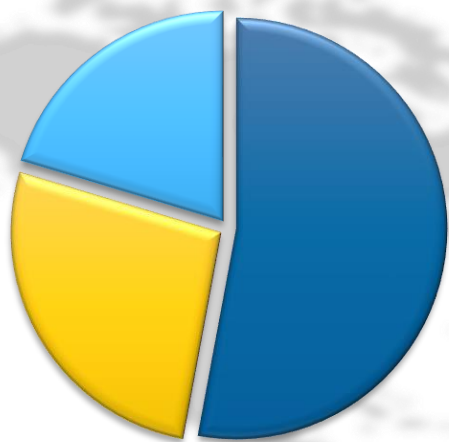
Asia Voluntary Carbon Market Traded Volume by Region; 2021



Region	Share 2021	CAGR (2022-2027)
India	xx%	xx%
China	xx%	xx%
Indonesia	xx%	xx%
Rest of Asia	xx%	xx%

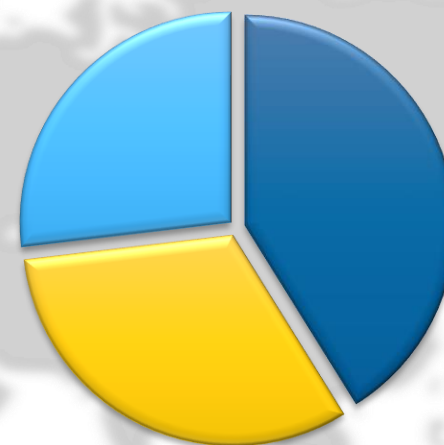
Latin America Voluntary Carbon Market : An Analysis

Latin America Voluntary Carbon Market by Region; 2021



Region	Share 2021	CAGR (2022-2027)
Brazil	xx%	xx%
Peru	xx%	xx%
Rest of Latin America	xx%	xx%

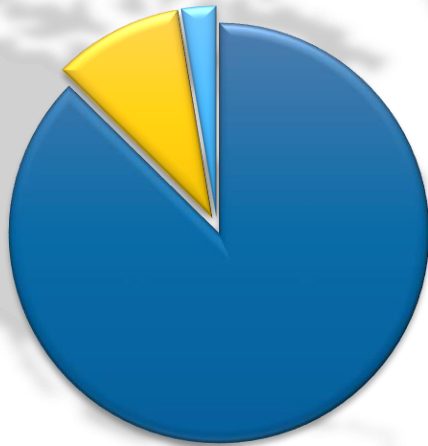
Latin America Voluntary Carbon Market Traded Volume by Region; 2021



Region	Share 2021	CAGR (2022-2027)
Brazil	xx%	xx%
Peru	xx%	xx%
Rest of Latin America	xx%	xx%

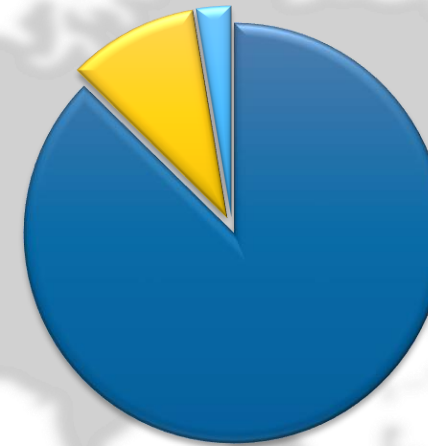
North America Voluntary Carbon Market : Production Analysis

North America Voluntary Carbon Market by Region; 2021



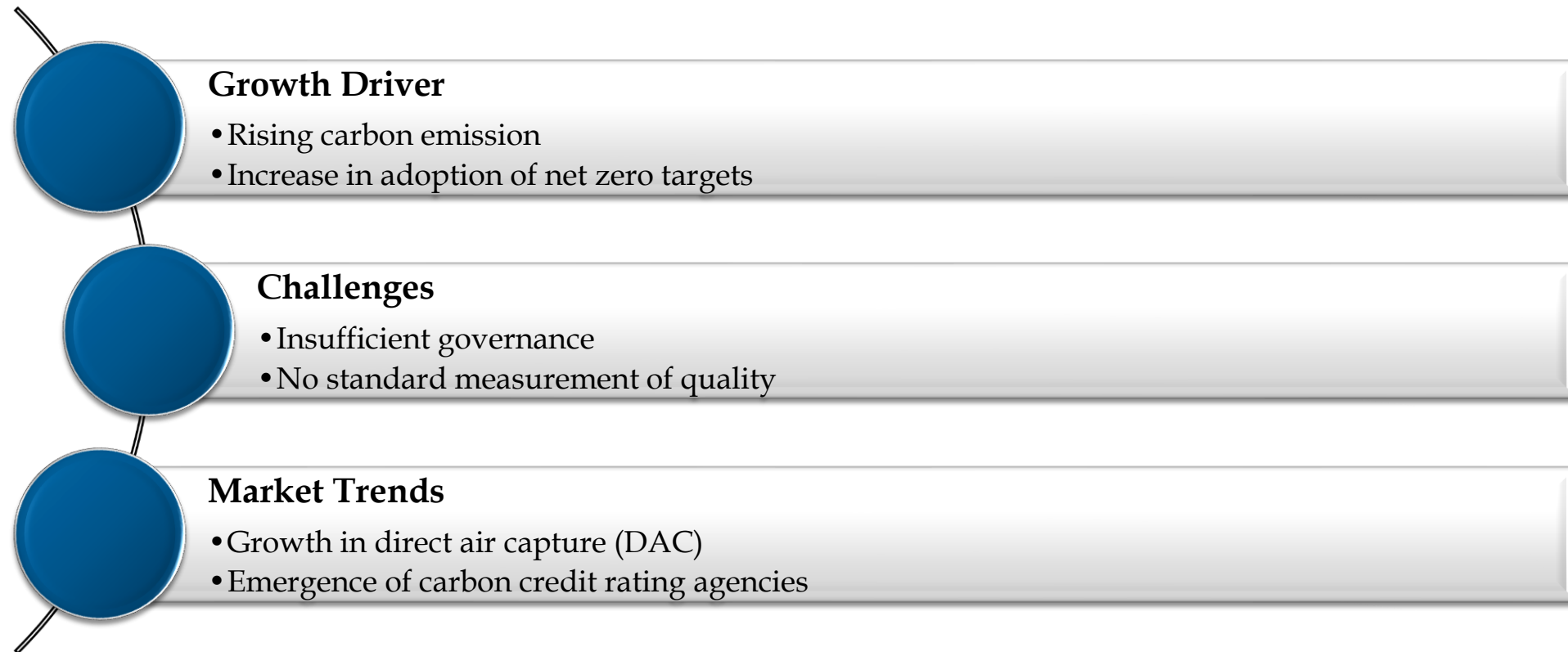
Region	Share 2021	CAGR (2022-2027)
The US	xx%	xx%
Canada	xx%	xx%
Mexico	xx%	xx%

North America Voluntary Carbon Market Traded Volume by Region; 2021



Region	Share 2021	CAGR (2022-2027)
The US	xx%	xx%
Canada	xx%	xx%
Mexico	xx%	xx%

Global Voluntary Carbon Market: Dynamics



Global Voluntary Carbon Market: Competitive Landscape

Players Profiled

- ❑ NRG Energy, Inc. (Green Mountain Energy)
- ❑ Just Energy Group Inc. (TerraPass)
- ❑ Ambipar Group (Biofílica Ambipar Environment S.A.)
- ❑ South Pole
- ❑ 3Degrees Group, Inc.
- ❑ EcoAct
- ❑ Aera Group
- ❑ ClimeCo
- ❑ ClimatePartner
- ❑ First Climate AG
- ❑ Vertis Environmental Finance
- ❑ NativeEnergy Inc.

Total Credits Issued By Registry; 2021 (Percentage, %)

