



**Lo Carbon Solutions**  
For a Green Future

# CARBON CREDIT PROJECT FOR FARMERS



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# Introduction

India, being one of the largest agricultural producers globally, possesses abundant agricultural lands that can serve as carbon sinks. However, small-scale farmers, who constitute a significant portion of the agricultural workforce, often lack the resources, knowledge, and access to markets necessary to participate in carbon credit programs. This is where Lo Carbon Solutions steps in, bridging the gap between these farmers and the carbon markets.

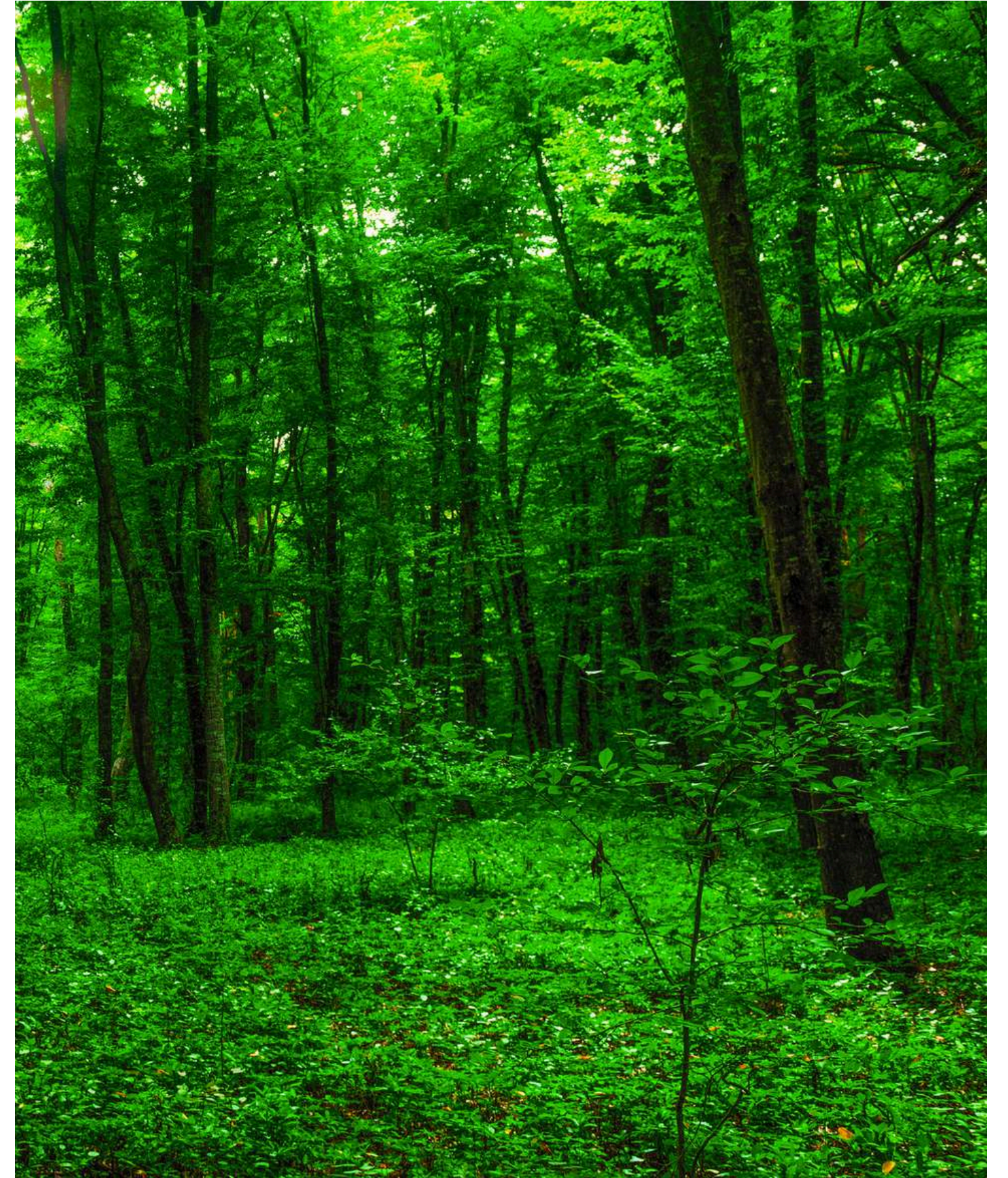
Our project aims to establish a sustainable and mutually beneficial relationship between the farmers, who implement climate-friendly practices, and the businesses and organizations seeking to offset their carbon emissions. By partnering with these farmers and leveraging innovative technologies, we enable the quantification, verification, and certification of carbon credits generated through sustainable agricultural practices.





# Introduction

With the convergence of environmental sustainability, technological innovation, and market demand, the time is ripe for Lo Carbon Solutions to emerge as a pioneering force in the climate tech sector. By harnessing the potential of agricultural lands and unlocking the value of carbon credits, we can drive positive change, strengthen the resilience of farming communities, and contribute to the global fight against climate change.







Kairali Agriculture Multi State Co-operative Society Ltd. is a pioneering Multi-state Co-operative Society, proudly registered under the esteemed Ministry of Cooperation, Government of India. With its registered headquarters nestled in the vibrant city of Thrissur, Kerala, Kairali Agriculture MSCS extends its reach through operational centers strategically located across both Kerala and Tamil Nadu.

Our core ethos revolves around the empowerment and welfare of farmers, alongside a steadfast commitment to the advancement of agriculture. Since our inception, we have been steadfastly dedicated to enhancing the livelihoods of farmers and fostering sustainable agricultural practices.





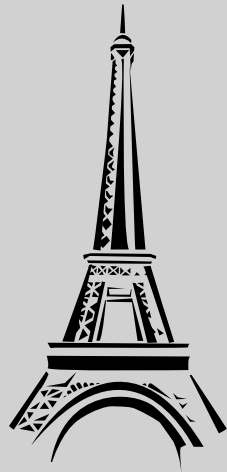
# Lo Carbon Solutions

For a Green Future

Lo Carbon Solutions, a leading climate tech company committed to addressing the pressing challenges of climate change by leveraging the potential of agricultural lands in India. Our pioneering project focuses on the generation and trading of carbon credits, empowering a cluster of farmers to participate in carbon markets and contribute to global efforts in carbon offsetting.

Lo Carbon Solutions, work to help to develop, implement and evaluate comprehensive strategies to reduce carbon emissions by transforming sustainability into competitive advantages. At Lo Carbon Solutions, we partner with our growing client base to help them tackle the obstacle of climate change to create a sustainable and impartial world for tomorrow.

# Carbon Credit Demand Drivers



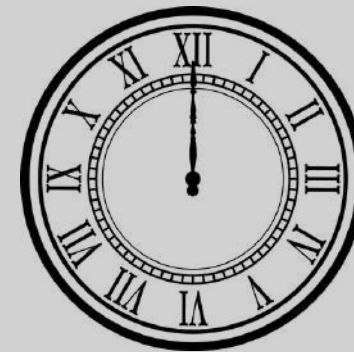
## Paris Agreement

Companies seeking alignment with these goals.



## Technological Gaps

Companies are limited by technologies that are available at scale and not cost-prohibitive..



## Time Gaps

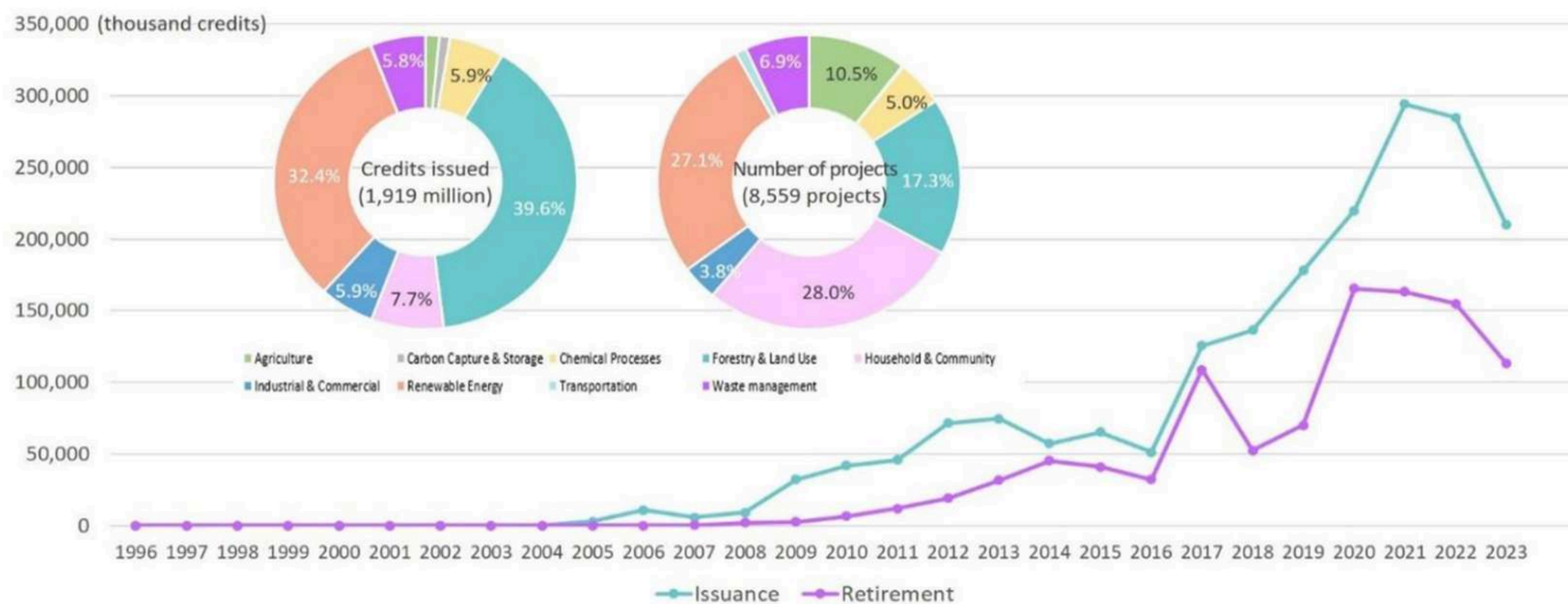
Companies do not have the means to eliminate all emissions today



## Shareholder Pressure

Companies are facing pressure from shareholders to address their emissions

# The growth of VCMs and Issued Credits and the number of projects by sector

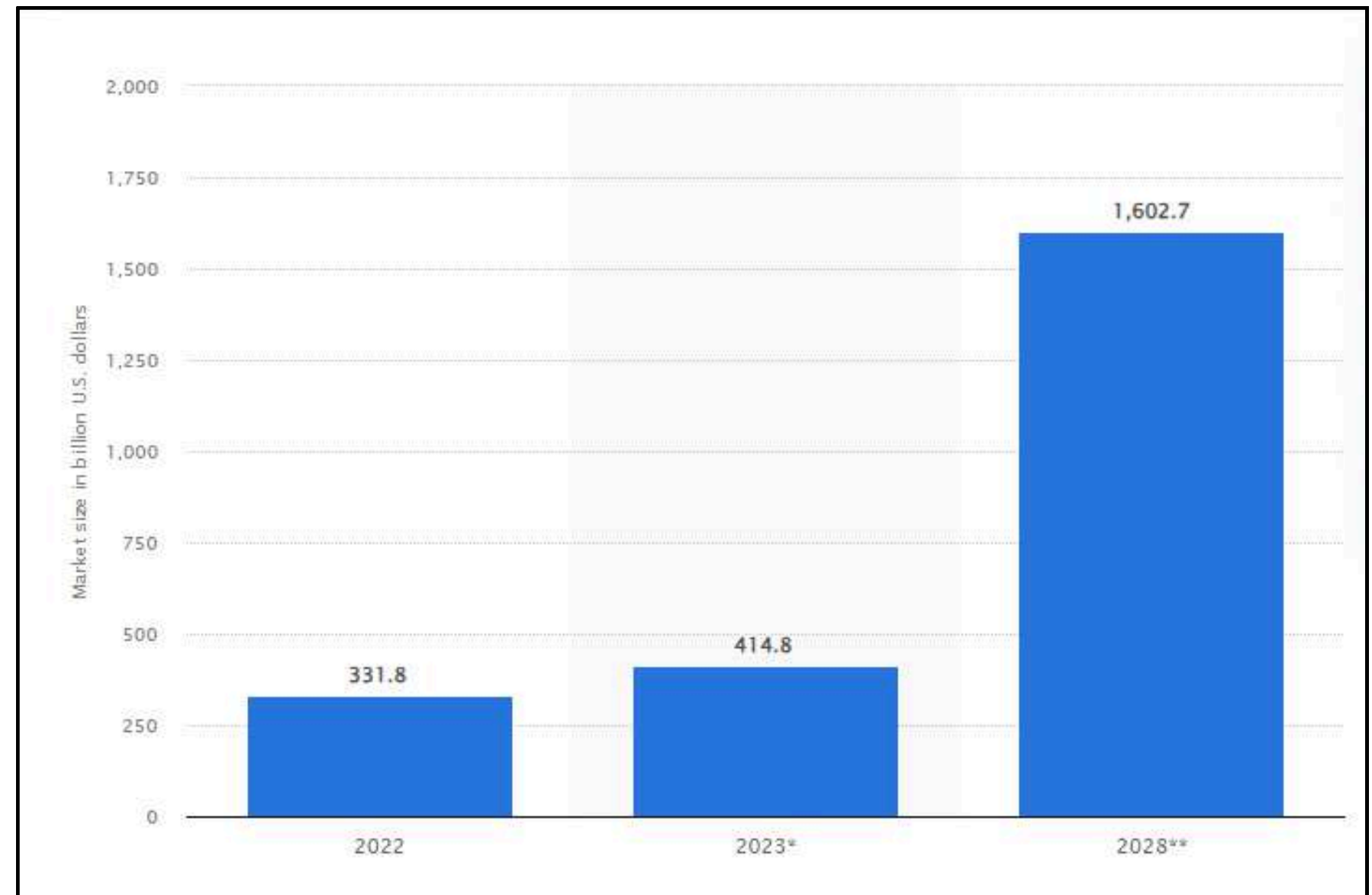




# Carbon Credit Market Size

**CAGR of 31 % during the forecast period of 2023 to 2028**

The global carbon credit market was valued at 331.8 billion U.S. dollars in 2022. It is expected that the global carbon offset/carbon credit market will grow at a CAGR of 31 percent during the forecast period of 2023 to 2028 to reach a value of 1.6 trillion U.S. dollars.





# Carbon market trading volume and value in 2021

Global Carbon Markets	Total volume traded (million tonnes)	Total trading value (US\$ bn)
Europe	12,214	807.4
UK	335	27.0
North America*	2,680	58.3
China**	412	1.5
South Korea	51	0.9
New Zealand	81	3.0
CERs***	38	0.2

Credit Suisse, 'Carbon Markets: the beginning of the big carbon age', (April 2022), p.19, available at:  
<https://www.credit-suisse.com/about-us-news/en/articles/securities-research-reports/report-1-202205.html>



# Objective and Scope of the Work

Our project aims to establish a sustainable and mutually beneficial relationship between the farmers, who implement climate-friendly practices, and the businesses and organizations seeking to offset their carbon emissions. By partnering with these farmers and leveraging innovative technologies, we enable the quantification, verification, and certification of carbon credits generated through sustainable agricultural practices.

The objective of this project is to analyze the potential opportunity for Indian farmers, as India being a developing country has no emission norms to be followed and can benefit in terms of technology, capital transfer and profits by way of selling Carbon Credits and at the same time contribute to the main cause to protect the environment.

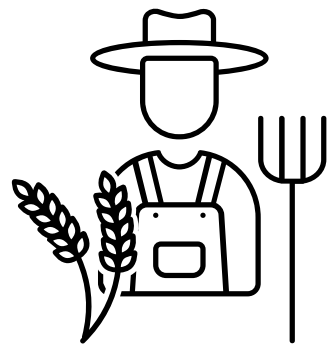




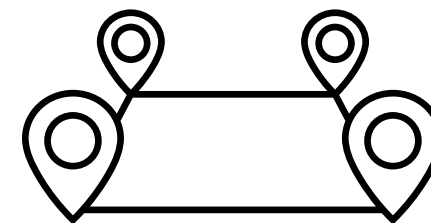
# Carbon Credit Project

The "Carbon Credit Project" is a transformative undertaking that aims to unite a team of farmers, encouraging them to voluntarily enroll their lands in this endeavor. By designating Lo Carbon Solutions as their dedicated consultant, these farmers will collaborate in the implementation of innovative carbon reduction strategies on their lands. Kairali Agriculture Multi State Co-operative Society and Lo Carbon Solutions are doing this project as a Joint venture.

## Traction - What We Have Achieved So Far



**10,000 +**  
farmers are members



**16000+**  
acres of agricultural Land  
in Kerala and Tamil Nadu



# Key Impacts of the "Carbon Credit Project"



## Climate Change Mitigation

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By actively reducing carbon emissions through sustainable strategies, the project contributes to the global efforts to combat climate change and its adverse effects.

## Carbon Net Zero Commitment

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The project aligns with India's commitment to achieving carbon neutrality by 2070, supporting the nation's efforts to transition to a low-carbon and sustainable economy.

## Raising Chickens

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The quantified and certified reductions in carbon emissions lead to the creation of valuable carbon credits, which can be traded in relevant markets. The revenue generated from carbon credit trading is shared equitably among the participating farmers, providing them with financial incentives for their sustainable practices.



# Sustainable Development Goals (SDGs):



*The "Carbon Credit Project" directly addresses 11 of the United Nations' Sustainable Development Goals (SDGs), such as:*

Environmental Preservation: The project fosters the conservation of natural resources, soil health improvement, and biodiversity conservation through eco-friendly farming practices

Rural Development: By incentivizing farmers and promoting sustainable agricultural practices, the project contributes to the economic development of rural communities.





SDG 1: No Poverty



SDG 2: Zero Hunger



SDG 6: Clean Water  
and Sanitation



SDG 7: Affordable  
and Clean Energy



SDG 8: Decent Work  
and Economic Growth



SDG 12: Responsible  
Consumption and Production



SDG 13: Climate Action



SDG 15: Life on Land,  
among others.



# What is to gain for farmers?

Carbon credits act as a tool for offsetting greenhouse emissions globally. By putting an economic value on the cost of polluting the air, the Farmers receive **CASH INCENTIVES** for the carbon they sequesterate in their lands through the “**CARBON CREDIT PROJECT**”.

Such an opportunity has many other benefits for the future of farming and nature:

- Encourage farmers to adopt methods for sustainable farming.
- Restore soil health.
- Growing awareness of carbon credit systems' existence and its advantages.
- Advanced intercropping and crop rotation.



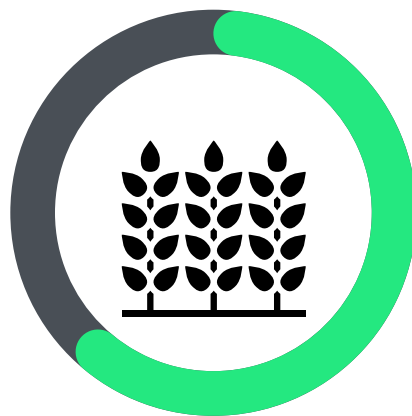




**118.80 Million**  
Farmers Pan India



**Potential Market**  
South America, Far east ,  
Africa, South Asia



**Total Land**  
488 Million acres

# Market Potential

Assumption of average 3 carbon credits  
from 1 acre of land @ 40\$

40x3x488M

\$58.56 billion dollars



# Project Implementation Process

## Implementation Process

- Formation of an app for farmer registration and Nodal agencies login  
Status : Pilot version done
- Data Analytic Team (Including Block chain Process)  
Status : Discussion going on
- System and AI Implementation  
Status : Discussion Going on
- Onboarding of AFC and like as paid Advisory consultants for Govt. Policies updation and lobbying and networking through FPOs and other organizations under them.  
Status : AFC is already our consultant. Discussions with others are going on
- Enrollment Process started ,Verification,Authentication and analysis of farmers' data ,Land datas and conduct awareness and training campaigns for Nodal Agencies



# Project Implementation Process

- OTHER DIGITAL CENTRES      4,63,407
  - FPO      3,510
  - CSC      8,27,592
  - NGO      39,729
  - SOCIETIES      1,00,428
- Onboard tech companies for Survey and Data collection for Land Status : Already assigned some and discussions going on with others
- Initial Survey and quantification
- Carbon Footprint quantification (Kairali mscs Team)
- Onboarding of Certification agencies. Carbon Trust is our agency now. We are discussing with Southpole,TUV,BV and others



# Project Implementation Process

- Onboarding of Verifying agencies.  
We are negotiating with Gold Standard and Vera. We applied in UNFCCC for registration.
- Onboarding of agri based and climate tech  
Companies for coordinating with Kairali mscs execution team and Nodal agencies Status : Discussions going on
- Scaling of in house R&D Team
- Onboarding of Data Monetizing team through different methods.  
Status : Discussions going on
- Implementation of Carbon reduction strategies through nodal agencies for implementation

# Project Implementation Process

- Onboard Carbon credit marketing agencies.  
Already we are member of CTX Global Exchange and are in talks with others like Vida Carbon etc.
- onboard pre finance option for Carbon Credits.TBD
- Monetising of Carbon Credits
- Disbursement of revenue to farmers though portals and app



# Revenue Model

## Trading of Carbon Credits from Carbon Credit Project



## **Mode of Carbon Credits Trading**

It's important to note that the availability and utilization of financial instruments related to carbon credits may vary depending on the specific regulatory environment and market conditions. Consulting with financial experts and carbon market professionals we choose the specific financial instruments available in a particular jurisdiction or context.

- Carbon Futures Contracts
- Carbon Options
- Carbon Credit Exchange-Traded Funds (ETFs)
- Carbon Credit-backed Securities
- Carbon Credit Auctions

## **Mode of Carbon Credits Trading**



## Mode of Carbon Credits Trading

- Carbon Credit Spot Market
- Carbon Credit Derivatives
- Carbon Credit Investment Funds
- Carbon Credit Offset Programs
- Carbon Credit Aggregation Platforms
- Tokenized Carbon Credits
- Carbon Credit Project Funding through Initial Coin Offerings (ICOs)

## Conclusion

To slow down climate change impacts, the emissions of GHGs need to be reduced immediately. switching to new sustainable land management practices can support the uptake and the reduction of GHGs. Some agricultural activities can increase the amount of organic matter and carbon in the soil by using cover crops or reduce the emissions of methane through improving feeding practices. Many of these practices also have additional potential benefits for the farming systems. These sustainable activities in the agricultural, forestry and energy sector can receive financial support for their implementation. Carbon markets have been successful in reducing green-house gas emissions by setting a limit on emissions and enabling their trading. Trading enables entities that can reduce emissions at lower cost to be paid to do so by higher-cost emitters, thus lowering the economic cost of reducing emissions. By incentivizing farmers to adopt sustainable practices, carbon credits contribute to reducing greenhouse gas emissions, mitigating climate change, and protecting natural resources. They also support the development of a green economy by promoting the growth of carbon markets, fostering innovation, and creating employment opportunities in the agricultural sector.





**THANK YOU**