1. Record Nr. UNINA9911047723703321

Autore	Meena Ram Swaroop
Titolo	Carbon-Negative Agriculture / / edited by Ram Swaroop Meena, Sandeep Kumar, Gourisankar Pradhan, Manoj Kumar Jhariya, Cherukumalli Srinivasarao
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2026
ISBN	981-9514-83-5
Edizione	[1st ed. 2026.]
Descrizione fisica	1 online resource (676 pages)
Collana	Sustainable Agriculture and Food Security, , 2730-6801
Disciplina	630
Soggetti	Agriculture Subsistence farming Agricultural ecology Biotic communities Solar energy Subsistence Agriculture Agroecology Ecosystems Solar Thermal Energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Chapter 1: Potential of Carbon Credits and Solutions through Carbon Farming to Achieve Carbon Negative Agriculture -- Chapter 2: Prospects, Challenges and Policies for Carbon-Negative Circular Agriculture -- Chapter 3: Policies and Technological Intervention for Regenerative Agriculture and Carbon Credits to Achieve Carbon-Negative Agriculture -- Chapter 4: Agronomical and Technological Advances for Carbon-Negative Agriculture and Carbon Credit -- Chapter 5: Crop Diversification for Enhancing Carbon Sequestration in Cropping Systems -- Chapter 6: Measurement, Reporting, and Verification Methodologies for Carbon Credit Towards the Carbon Negative Agriculture -- Chapter 7: Agroforestry Management Plans for Carbon-Negative Emissions -- Chapter 8: Management of Agrochemicals and Policy Planning for Carbon Credits and Ecosystem Services -- Chapter 9: Farm Waste Management and Recycling for

Negative Carbon Sink in Agriculture -- Chapter 10:Solar Energy for Carbon-Negative Agriculture and Carbon Credit Generation -- Chapter 11:Achieving Carbon-Negative Agriculture and Carbon Credits through Green Renewable Energy -- Chapter 12:Wind-powered Irrigation: Revolutionising Agriculture and Carbon Credit in Arid and Semi-Arid Regions -- Chapter 13:Digital Agriculture for Carbon-Negative Emissions -- Chapter 14:Using Biophysical Modelling to Predict Carbon Sequestration Dynamics in Cropping Systems -- Chapter 15: Integrating Government Schemes for Carbon Incentives and Farmers' Benefits -- Chapter 16:Role of the Private and Industrial Sectors in Carbon Credit Initiatives -- Chapter 17:Carbon-neutral Alternative in the Rice-Wheat Cropping System.

Sommario/riassunto

This book explores the theory of carbon money, which posits that national currency exchange rates are tied to carbon pricing levels. It promotes eco-friendly agricultural practices that conserve energy and natural resources, support carbon sequestration, and reduce greenhouse gas emissions. This book also provides an inside look at innovative plans and governmental policies at the international level for net carbon-negative farming, with a focus on digital agriculture, conservation agriculture, renewable energy, farmer awareness, and capacity building, which allows the world to capture and manage carbon. The evolving landscape of agriculture amidst climate change is discussed, with a focus on innovative strategies such as negative carbon sinks and the use of carbon credits. It highlights the potential of agroforestry, conservation tillage, and other practices to transform agriculture into a climate-friendly industry through real-world examples and case studies. This book explores potential strategies and regulations that can assist academics, students, researchers, and policymakers. It investigates the link between sustainable carbon farming methods and economic incentives, offering a comprehensive guide for researchers, farmers, policymakers, and other stakeholders.