



# **Geotherapy: Innovative Methods of Soil Fertility Restoration, Carbon Sequestration, and Reversing CO2 Increase**

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*A Practical, Get-Your-Hands-in-the-Soil Manual*

Global climate change, increasing pollution, and continued rapid population growth is wreaking havoc on the planet. Stabilizing the environment at safe levels requires a large-scale restoration of damaged ecosystems.

**Geotherapy: Innovative Methods of Soil Fertility Restoration, Carbon Sequestration, and Reversing CO<sub>2</sub> Increase** outlines the basic concepts of geotherapy and highlights the importance of healing the biosphere's ability to store soil carbon to prevent climate change impacts. Facing challenges head on, it addresses how and why policymakers have underestimated the long-term impacts of climate change and how we can correct the flawed carbon management mechanisms today. The book also factors in where carbon can be most effectively stored, how quickly that can be done, and the practical and policy actions needed to get there.

This text presents innovative new technologies for restoring the most productive ecosystems on land while maintaining high biodiversity. It addresses processes and techniques of soil carbon restoration through biogeochemical cycling, biochar, slow-release fertilizers, weathering of minerals (olivine) and rock (basalt) powders, amendments and bio-fertilizers, and the establishment of vetiver and other perennials. Written by highly recognized professionals from every continent except Antarctica, this extensive work consists of 34 chapters covering issues that include: field experiences with biochar including a history of its research; practical uses of biochar in farming systems and the use of biochar for soil fertility enhancement; the potential of remineralization as a global movement; seawater concentrate for abundant agriculture; superior food production using sea salt and plant extracts; recycling waste nutrients using biochar and limestone; and commercially viable carbon farming. The book concludes with a chapter providing general thoughts on greening the earth and averting a global crisis.

Geotherapy: Innovative Methods of Soil Fertility Restoration, Carbon Sequestration, and Reversing CO<sub>2</sub> Increase is an encyclopedia of ideas providing the tools needed for anyone involved with the ecological restoration and transformation of the planet.

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