

1. Record Nr.	UNINA9910786648503321
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Titolo	Biochar systems for smallholders in developing countries : leveraging current knowledge and exploring future potential for climate-smart agriculture / / Sebastian M. Scholz, Thomas Sembres, Kelli Roberts, Thea Whitman, Kelpie Wilson, and Johannes Lehmann
Pubbl/distr/stampa	Washington, D.C. : , : World Bank, , [2014]
ISBN	0-8213-9526-2
Descrizione fisica	1 online resource (xvi, 208 pages) : illustrations ; ; 26 cm
Collana	World Bank Study
Disciplina	333.9539
Soggetti	Biochar Biomass energy
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Contents; Acknowledgments; About the Authors; Abbreviations; Executive Summary; Introduction; Background on Biochar; Overall Opportunities and Risks of Biochar Systems; Figures; Figure ES.1 Biochar as a System-Defined Concept; Survey and Typology of Biochar Systems; Life-Cycle Assessment of Existing Biochar Systems; Boxes; Box ES.1 Summary of Kenya Case Study; Box ES.2 Summary of Vietnam Case Study; Box ES.3 Summary of Senegal Case Study; Aspects of Technology Adoption; Potential Future Involvement of Development Institutions, Including the World Bank; Chapter 1 Introduction Potential of BiocharIncreases in Research into Biochar; Content and Purpose of Study; Figure 1.1 Acceleration of Published Research on Biochar and Charcoal; Methodology; Chapter 2Background on Biochar; Characteristics and Historical Basis of Biochar; Figure 2.1 Terra Preta Soil Pit near Manaus, Brazil, Showing Thick, Dark, Carbon-Enriched Top Layer; Biochar Systems; Figure 2.2 Biochar as a System-Defined Concept; Tables; Table 2.1 Typical Product Yields (Dry Basis) for Different Types of Thermochemical Conversion Processes That Generate Carbonaceous Residues; Note Chapter 3Opportunities and Risks of Biochar SystemsIntroduction; Impacts on Soil Health and Agricultural Productivity; Figure 3.1 Percentage Change in Crop Productivity upon Application of Biochar

under Different Scenarios; Table 3.1 Possible Biochar Effects on Nitrogen Cycling; Impacts on Climate Change; Table 3.2 Direct and Indirect Sources of Biochar Emission Reductions; Figure 3.2 General Concept of the Carbon Storage Potential of Biochar Based on 1 Tonne (t) of Dry Feedstock (Slow Pyrolysis); Figure 3.3 Impact of Biochar on Climate Change Mitigation

Figure 3.4 Alternative Scenarios for Biomass Carbon Dynamics Social Impacts; Competing Uses of Biomass; Table 3.3 Potential Biomass Use and Limitations; Notes; Chapter 4 Survey and Typology of Biochar Systems; Survey; Classification of Biochar Systems; Figure 4.1 Distribution of Project Locations; Figure 4.2 Biochar Production Technologies; Figure 4.3 Utilization of Biochar Production Energy; Figure 4.4 Word Cloud Showing Biochar Feedstocks Most Frequently Cited by Survey Respondents; Figure 4.5 Scale of Biochar Production Systems

Figure 4.6 Typology of Biochar Systems by Type of Energy Recovery and Scale Showing Number of Projects with Each Type of Feedstock (n = 154) Figure 4.7 Summary of Dominant Biochar Typologies; Table 4.1 Biochar System Typology; Chapter 5 Life-Cycle Assessment of Existing Biochar Systems; Life-Cycle Assessment: Definition and Methodology; Box 5.1 Elements of a Life-Cycle Assessment; Case Studies; Kenya Case Study Life-Cycle Assessment; Figure 5.1 Schematic Flow Diagram for Biochar Production in a Pyrolysis Cookstove System; Figure 5.2 Pyrolysis Cookstove in Kenya Case Study

Table 5.1 Primary and Secondary Feedstock Characteristics and Availability for Baseline Scenario

Sommario/riassunto

Biochar is the carbon-rich organic matter that remains after heating biomass under minimization of oxygen during a process called pyrolysis. Its relevance to deforestation, agricultural resilience, and energy production, particularly in developing countries, makes it an important issue. This report offers a review of what is known about opportunities and risks of biochar systems. Its aim is to provide a state of the art overview of current knowledge regarding biochar science. In that sense the report also offers a reconciling view on different scientific opinions about biochar providing an ove

2. Record Nr.	UNINA990000323670403321
Autore	Lehmann, Otto
Titolo	Die Krystallanalyse oder die chemische Analyse durch Beobachtung der Krystallbildung mit Hülfe des Mikroskops : mit theilweiser Benutzung seines Buches über Molekularphysik / bearbeitet von O. Lehmann
Pubbl/distr/stampa	Leipzig, : Verlag von Engelmann, 1891
Descrizione fisica	VI, 82 p. : ill. ; 24 cm
Disciplina	548
Locazione	FFABC DINCH NAP14
Collocazione	80 BUSTA 6 (2) 04 127-71 M 2 VII 5
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia