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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
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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
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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
