

# Climate Change, Air Pollution and Global Challenges: Chapter 25. Targeting Sustainable Provision of Forest Ecosystem Services with Special Focus on Carbon ... (Developments in Environmental Science)

Maria Nijnik, David Miller

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Contemporary societies expect a range of services (including of carbon sequestration) to be supplied from forest ecosystems. Their growing societal importance is clearly reflected in policies. The conceptual framework for the states that people are integral parts of ecosystems and that a dynamic interaction exists between them and other parts of ecosystems. This approach encompasses social, economic and environmental interactions, and the dynamics and cross scale issues that have multiple outcomes. However, forest multifunctionality is a challenge since the combination of multiple ecosystem services may be very different and dependent on a high number of factors. Stakeholder priorities with respect to individual ecosystem services may be variable, as may be a range of stakeholders. Reflexive, participatory and multilevel governance, in a continuous process of its adjustment, needs therefore to be developed to enable forestry decision-makers to consider existing opinions and behavioural patterns of the diverse stakeholders who drive the forestry change and respond to it. In such a retrospective, numerous questions have arisen, among which the integration of carbon sequestration into multifunctional forestry is among priorities. Carbon forestry enables society to buy time for development of low carbon and decarbonisation technologies; while its integration into multifunctional land use offers innovation, employment and new markets, with locally and regionally oriented value chains. This particularly concerns remote areas where forestry could foster socio-economic development and combine it with the enhancement of nature and rural landscape. However, the question: how to multiply synergies and balance trade-offs merits attention. Fostering resilience of forestry systems to climate change necessitates the establishment of an appropriate framework, because, although multipurpose afforestation may result in lower rates of carbon sequestration, it is expected to be more attractive to people as it will provide additional benefits and will promote sustainable development.



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