

BIO ENERGY AND SOLAR ENERGY

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Abstract---Bioenergy is the most common renewable energy worldwide making up about 70% or all primary renewable energy supply. This chapter gives an overview of the role bioenergy plays in the transition to low-carbon future and discusses its opportunities and challenges. The chapter starts with a general introduction of some of the main aspects of bioenergy, followed by some specific case studies giving an insight into specific feedstocks, technology, and applications. The focus will be on greenhouse gas emissions, wider environmental socioeconomic and sustainable implication. Solar energy is the radiant light and heat from the sun that has been harnessed by humans since ancient times using a range of ever-evolving technologies. Solar irradiation data is needed at all levels of solar power development, from initial government planning through to large-scale project development or the calculations needed to size smaller systems.

Keywords---Bioenergy, Climate Change Mitigation, Greenhouse Gas Emissions, Carbon Balance, Sustainability.




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