

**Title of Chapter in Book:** Renewable Energies

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**Abstract:** Fossil fuels are being consumed at much faster rates than they are produced in the Earth's crust; hence, the world's supply of these fuels is being depleted. The depletion of these nonrenewable fuels is a major challenge facing humanity. There are alternative sources of energy that are renewable and not based on the burning of fossil fuels. Renewable energy resources are those from sources that are capable of being continually replenished after exploitation. They are not exhaustible within human timescales. They occur naturally and abundantly and provide relatively clean energy that does not produce greenhouse gases like fossil fuels do.