

COELHO, Suani Teixeira; PERECIN, Danilo; REI, Fernando; ESCOBAR, Javier Farago; FREIRIA, Rafael Costa; KIMURA, Willian jun. **Bioenergy Policies Worldwide**. Oxford, Elsevier, 2022. v.5/p.1-21. Comprehensive Renewable Energy, Oxford:Elsevier, 2022. Disponível em: <https://doi.org/10.1016/B978-0-12-819727-1.00040-6>.

Comprehensive Renewable Energy (Second Edition) - Volume 5, 2022, Pages 1-21

5.01 - Bioenergy Policies Worldwide

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<https://doi.org/10.1016/B978-0-12-819727-1.00040-6>Get rights and content

ABSTRACT

Biomass energy can be produced from different feedstocks of biological origin, through several different processes to produce heat, electricity, and transport fuels. The advantages of bioenergy are quite well known, considering its environmental, strategic, and social impacts. In addition, bioenergy contributes to reduce GHG emissions, mainly when coupled to carbon capture and storage (BECCS) or utilization (BECCU/BECCUS). However, bioenergy share in world energy matrix is still reduced and this requires better policies in different countries. In this chapter, an extensive discussion of existing bioenergy policies worldwide is presented, with focus in experiences from several industrialized and developing countries.

Keywords

BECCSBioenergyBiofuelsBiogasBiomethaneClimate change mitigationEnergy marketsEnergy planningEnergy systemsLow carbon fuel policiesPower generationSolid biomassSugarcane etanol.