

عنوان مقاله:

Bio-economic models in agriculture : design and development of models

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خلاصه مقاله:

Bio-economic models include the application of mathematics to model the behavior of biological systems subject to biological, environmental, economic, and technical factors. Expanding the concept of bioeconomy to sustainably respond to food and energy needs while preserving natural resources and environmental services has highlighted the importance of the agricultural sector as the main producer of biomass for food and energy more than in the past. The concentration of bioeconomy activity in the production of agricultural and forestry products and industrial processing methods aimed at sustainable management of water, soil and biodiversity; The demand for Bio economic models in the agricultural sector has increased. Bioeconomic models are used to improve the understanding of complex production systems, evaluate the effects of new policies and technologies, and support production decisions. These models can describe biological processes and the effects of management decisions on these processes. Also, at the same time, they can deal with different dimensions of agriculture, natural resource management, technical changes and exchange between economic, environmental and sustainability goals. This article aims to examine Bio economic models for agricultural systems in the dimensions of design, goals, performance, technical challenges related to development and problems related to the opportunities of using Bio economic models which provides valuable experiences for researchers in the field of agricultural modeling studies, understanding the effects of agricultural policies and the importance of the role of science communication and interdisciplinary cooperation in the field of designing and implementing agricultural projects.

کلمات کلیدی:

Bioeconomy, bio economic model, agriculture

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