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BIOECONOMY RESEARCH NEEDS AND RESEARCH AREAS**Dr. I.Sundar¹**

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ABSTRACT

The bioeconomy encompasses the **production of renewable biological resources and their conversion into food, feed, bio-based products and bioenergy** via innovative and efficient technologies provided by Industrial Biotechnology. It is already a reality and one that offers great opportunities and solutions to a growing number of major societal, environmental and economic challenges, including climate change mitigation, energy and food security and resource efficiency. This paper deals with research needs and research areas in bioeconomy. It outlines the research needs and solutions on bio resource use efficiency research needs and solutions in agriculture, research needs and solutions in Plan health and Resilient production, research needs and solutions in pest management, research needs and solutions in genetic technology, research needs and solutions in quality of food products and research needs and solutions in plant cells for the production of high value molecules. This paper concludes with some interesting findings along with policy suggestions.

KEYWORDS: bioeconomy, mitigation, energy, food security, sustainable production