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SUSTAINABLE GOALS OF FUTURE”
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**Transforming Waste into Resources Exploring Environmental,
Agriculture an Overview of Goals**

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Abstract

The increasing generation of waste from households, industries, and agricultural activities has become a major environmental and economic challenge. However, waste can also be viewed as a valuable resource when appropriate technologies and sustainable management practices are adopted. The theme “Transforming Waste into Resources: Exploring Environmental and Agricultural Opportunities” focuses on innovative approaches for converting organic, agricultural, and other biodegradable wastes into useful products such as compost, biofertilizers, biogas, biochar, and renewable energy. The primary goal is to promote sustainable waste management while reducing environmental pollution and improving resource efficiency. The study also aims to examine how agricultural waste can be effectively utilized to enhance soil fertility, increase crop productivity, reduce dependence on chemical fertilizers, and support circular agricultural systems. Another important objective is to explore environmentally friendly methods that minimize greenhouse-gas emissions, soil and water contamination, and the excessive disposal of waste in landfills or open areas. By integrating waste management with agriculture, the approach can create economic opportunities for farmers, reduce production costs, and contribute to sustainable rural development. The study further highlights the importance of community participation, technological innovation, policy support, and awareness in establishing effective resource-recovery systems. Overall, transforming waste into valuable resources provides an opportunity to address environmental challenges while strengthening agricultural sustainability, promoting a circular economy, and supporting long-term food and ecological security.

Keywords: Waste management, resource recovery, agricultural waste, composting, biofertilizer, biochar, circular economy, sustainable agriculture, environmental sustainability, renewable energy.