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Review

Food loss and waste management in Turkey



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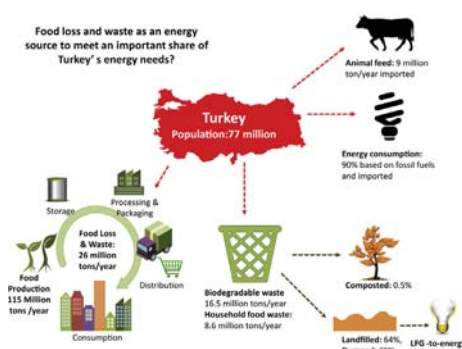
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HIGHLIGHTS

- Turkey is a significant producer of fruits, vegetables, nuts, wheat, and milk.
- Total edible food loss and waste was calculated as 26.04 million tons/year.
- Animal feed imported in 2016 is 9.15 million tons.
- Biogas conversion of organic residues can meet 6% of Turkey's energy demand.
- Food losses and waste generated can be used as a valuable resource.

GRAPHICAL ABSTRACT



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ABSTRACT

Food waste can be an environmental and economic problem if not managed properly but it can meet various demands of a country if it is considered as a resource. The purpose of this report is to review the existing state of the field in Turkey and identify the potential of food waste as a resource. Food loss and waste (FLW) was examined throughout the food supply chain (FSC) and quantified using the FAO model. Edible FLW was estimated to be approximately 26 million tons/year. The amount of biodegradable waste was estimated based on waste statistics and research conducted on household food waste in Turkey. The total amount of biodegradable waste was found to be approximately 20 million tons/year, where more than 8.6 million tons/year of this waste is FLW from distribution and consumption in the FSC. Options for the end-of-life management of biodegradable wastes are also discussed in this review article.

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