

Waste management in mountain areas. A case study for the mountain area Călimani,
Suceava County, Romania

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As our society evolves, the different types and composition of waste become increasingly more diverse, making waste management a complex challenge. Waste management in mountain areas is particularly difficult as the mountain ecosystems are ecologically sensitive and require increased efforts for the protection of both environment and human communities. The present study evaluates the specific types of waste, waste management and waste impact based on the Global Pollution Index (GPI) method. Several non-conformities were identified such as: a recycling index well below the prescriptions of the Suceava County's Waste Management Plan 2020-2025 and an incorrect evaluation of the composition of municipal waste. A high degree of risk from the extractive waste resulted from sulphur mining and preparation was determined. This study also proposes several measures to limit the impact of the waste deposited in the mountain area Călimani and a profitable industrial synergy solution for its beneficiaries.