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Abstract	:	This study assesses the adoption and operational effectiveness of Environmental Management Systems (EMSs) in Italian wineries, focusing on ISO 14001:2015. It evaluates commitment, planning, communication strategies, emergency preparedness, and employee training practices. Using a comprehensive survey-based methodology, the research elucidates the dynamics of EMS implementation across various scales of winery operations. The research reveals a strong commitment among wineries to environmental objectives such as waste reduction and efficient electricity and water use. However, significant deficiencies were identified in EMS policy implementation, emergency preparedness, and the uptake of ISO 14001:2015 certification, with larger wineries showing more robust engagement in environmental training than smaller ones. The study incorporates five key performance indicators (KPIs) and a predictive model using logistic regression and Random Forest to analyze the likelihood of ISO 14001 certification based on the analyzed variables. The model highlights established processes, environmental policies, and frequent reviews as significant predictors of certification. These findings contribute original value by identifying critical leverage points and barriers affecting EMS effectiveness within the wine sector. The research uncovers nuanced interactions between the scale of operations and management engagement influencing EMSs' success. ..see more.