

# **Risk-Based Decision System for Reducing Random Events in the Plastics Industry**

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## **Abstarct**

Over the recent years, many industries have been affected by serious accidents that have resulted in loss of human lives and caused major impacts on the environment, but also significant damage to corporates' budget and reputation. To prevent such undesirable consequences, the international community has regulated safety risk management standards which can be included in the Environmental, Social and Governance contributions for sustainable growth-

Our aim in this paper is to describe a risk-based system developed in a software environment, in accordance with the European Green Deal requirements and the international commitments under the Paris Agreement on Climate Change, which could facilitate the management of proactive actions for climate change mitigation and could lead to the as-low-as-reasonably-practicable level of sustainability risks exposure in the plastics industry.