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Title: Leveraging Process Safety Data for Operational Excellence in the Energy Sector

Abstract: In the energy sector, where complexity and risk are intrinsic, the capability to transform extensive process safety data into actionable insights is essential. By analysing statistical data on process safety events, organizations can uncover hidden patterns and identify high-risk areas, allowing for targeted interventions to prevent incident recurrence. A well-balanced framework that integrates both leading and lagging safety indicators is crucial for enhancing process safety management systems. This approach not only strengthens hazard prevention but also drives continuous improvement towards achieving safety and operational excellence.