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Extending process safety thinking to power assets and why it is so elusive

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ABSTRACT

In the evolving landscape of power generation, the management of energy hazards presents unique challenges that necessitate an extension of our current process safety chemical thinking and toolbox. This presentation will delve into the initial and recent attempts to operationalize process safety at power assets, highlighting the complexities and elusiveness of achieving robust process safety in this sector.

The presentation will focus on the need to build upon existing process safety frameworks to address the specific operating risks associated with power assets. Key factors contributing to the difficulty in operationalizing process safety include the specification of asset risk, how standards guide installation, the different approach to design, and the scarcity of readily available process safety information, such as design and material limits.

KEY WORDS

Process Safety, Energy Hazards, Power Assets, Operationalisation, Safety Information

BIOGRAPHY

Somnang Sovann is an experienced professional in process safety, currently leading the Process Safety System team at APA Group. With over two decades of experience in the energy sector, he has contributed to enhancing safety awareness and practices. Somnang holds a Master of Commercial and Resource Law and a Bachelor of Engineering in Electrical and Electronics from the University of Western Australia. His work focuses on integrating process safety management frameworks, developing safety-critical standards, and mentoring teams to achieve excellence in safety performance. His insights and leadership are invaluable in advancing safety and operational efficiency in the energy industry.

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