

This abstract will be presented during LNG2023 conference on 10-13 July in Vancouver, Canada among many other innovative projects, ideas and outlooks. LNG2023 will provide a unique platform for the global LNG industry and key stakeholders to discuss, debate, and showcase the latest industry developments and opportunities.



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## AN INTEGRATED APPROACH IN PREVENTION OF MAJOR ACCIDENT EVENTS – STEP CHANGE IN PROCESS SAFETY

Qatargas is on a major expansion spree with number of onshore & offshore projects. In the next few years, LNG capacity is expected to be increased from the current 77 to 126 Mtpa with addition of 6 Mega LNG trains and offshore facilities.

To maintain our position as a premier company and a reliable LNG supplier, we need to prevent any major process safety events such as Piper Alpha, BP-Texas City, BP-Macondo etc. to name a few that would have a significant impact from HSE, financial & reputation perspective.

It has been acknowledged and endorsed by Qatargas management that a step change is imperative in process safety to address the various challenges associated with process safety events.

Four themes identified:

- A.Process Safety Awareness & Culture
- B.Safety Case Development (Operations and Design)
- C.Barrier Effectiveness & Management (Human and Hard barriers)
- D.Safety Critical Element (SCE) Backlog and Field Effectiveness Management

This will enhance the effectiveness of Qatargas existing processes through identification & coherent integration of HSE critical barriers and tasks to the various QGMS Processes. The topics will be relevant to all organizations with mature PSM systems and are in the process of integrating them with MAH/Safety case framework.

Benefits:

- Prevention of MAH (Major Accident Hazard) events
- Identification of barrier health & remedial actions

To view the full conference agenda, visit <https://www.lng2023.org/lng-programme-overview>

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Development of Process safety culture & personnel development

Cumulative risk visualization



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