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Process-safety accidents can be prevented if hazards are recognised and appropriately managed. This article is intended to raise awareness of some less-common hazards. It describes three incidents involving temperature related, catastrophic failures of shell and tube heat exchangers in the gas processing and oil-refining industries.

**Process-safety case studies - catastrophic failures of**

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## **Metabolism - Wikipedia**

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## **Isenthalpic process - Wikipedia**

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