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Utilities in chemical process plant

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Mr. K. Sahasranaman holds a B. Chem. Engg. from UDCT and an M. Tech. from IIT-Bombay as well as a Diploma in Finance Management from Mumbai University. He has over 37 years experience in process design and engineering, commissioning and troubleshooting of chemical plants. During his 27+ years association with ThyssenKrupp Industrial Solutions (India) Private Limited (formerly Uhde India Private Limited) Mr. Sahasranaman has handled many large and prestigious projects in petrochemicals and commodity chemicals in different roles like lead engineer, overseeing manager, proposal coordinator, start-up manager, engineering manager and project sponsor.



Mr. Sahasranaman was elected twice to the Council of Indian Institute of Chemical Engineers and served as its Vice President in 2006. He is a member of Technology and Energy Expert Committee of Indian Chemical Council (ICC) since 2006. He is also member of the Board of Studies in Chemical Engineering at Mukesh Patel School of Technology Management and Engineering of NMIMS Deemed University. He is certified as an Energy Auditor by Bureau of Energy Efficiency, a statutory body under Ministry of Power, Government of India.

Mr. Sahasranaman is currently an independent consultant in areas of process design and engineering, energy, utilities and safety. He has published over 50 articles in Indian and international journals.

Abstract

Utilities govern plant performance (throughput and quality), energy consumption, reliability and safety. The common utilities in a chemical process plant are

- 1) Water
- 2) Steam
- 3) Air
- 4) Refrigeration
- 5) Thermic fluid
- 6) Vacuum

Design and operating considerations of the above utility systems and their impact on plant performance will be discussed.