

Achieving Capital Efficiency with Modular Chemical Process Intensification

(RT-373 – Achieving Capital Efficiency with Modular Chemical Process Intensification)

For some, combining modularization with process intensification has resulted in a rethinking of plant design. Modular Chemical Process Intensification (MCPI) has recently emerged as a strategic opportunity for some chemical manufacturers to gain a stepwise advantage over their competitors.

CII and the DOE RAPID program collaborated on and co-funded this study to examine the learnings from early MCPI application case studies. The team compared the MCPI case against historically market-dominant conventional stick-built projects, examining differences in project scope and cost-drivers. The project's economic findings pertain to differences in CAPEX, OPEX, NPV, payback periods, and project duration, among others.

Presenters

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