

### Retrofit of Heat Exchanger Networks using Advanced Pinch Approach

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The pinch approach is widely used for retrofitting heat exchanger networks in the industrial chemical plants. Since the conventional pinch approach don't consider the process interaction and the distances between units, many researches were performed to develop the optimization algorithm of heat exchanger networks instead of pinch approach. This study proposes the advanced pinch approach for consideration of the process interaction and the distances between units. The results of the case study show effects of proposed approach.

This research was supported by a grant from the LNG Plant R&D Center funded by the Ministry of Land, Transportation and Maritime Affairs(MLTM) of the Korean government.