

# Accepted Manuscript

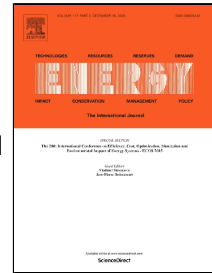
Simultaneous Optimization of Multi-plant Heat Integration Using Intermediate Fluid Circles

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PII: S0360-5442(16)31930-2  
DOI: 10.1016/j.energy.2016.12.116  
Reference: EGY 10118  
To appear in: *Energy*  
Received Date: 09 June 2016  
Revised Date: 28 December 2016  
Accepted Date: 28 December 2016

Please cite this article as: Chenglin Chang, Xiaolu Chen, Yufei Wang, Xiao Feng, Simultaneous Optimization of Multi-plant Heat Integration Using Intermediate Fluid Circles, *Energy* (2016), doi: 10.1016/j.energy.2016.12.116

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**Highlights:**

- A **new** MINLP model is established for multi-plant heat integration.
- Both interplant integration and intra-plant integration are considered simultaneously.
- The interconnectivity patterns between plants and the relative piping cost and pumping cost are considered.
- Parameters of intermediate fluid are optimized.
- **More economic and practical design can be obtained through the proposed method.**

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