

Accepted Manuscript

Hydrogen network optimization by integrating impurity distributions of a fluid catalytic cracker and hydrogenation reaction kinetics

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PII: S0959-6526(18)31341-6

DOI: [10.1016/j.jclepro.2018.05.014](https://doi.org/10.1016/j.jclepro.2018.05.014)

Reference: JCLP 12871

To appear in: *Journal of Cleaner Production*

Received Date: 28 October 2017

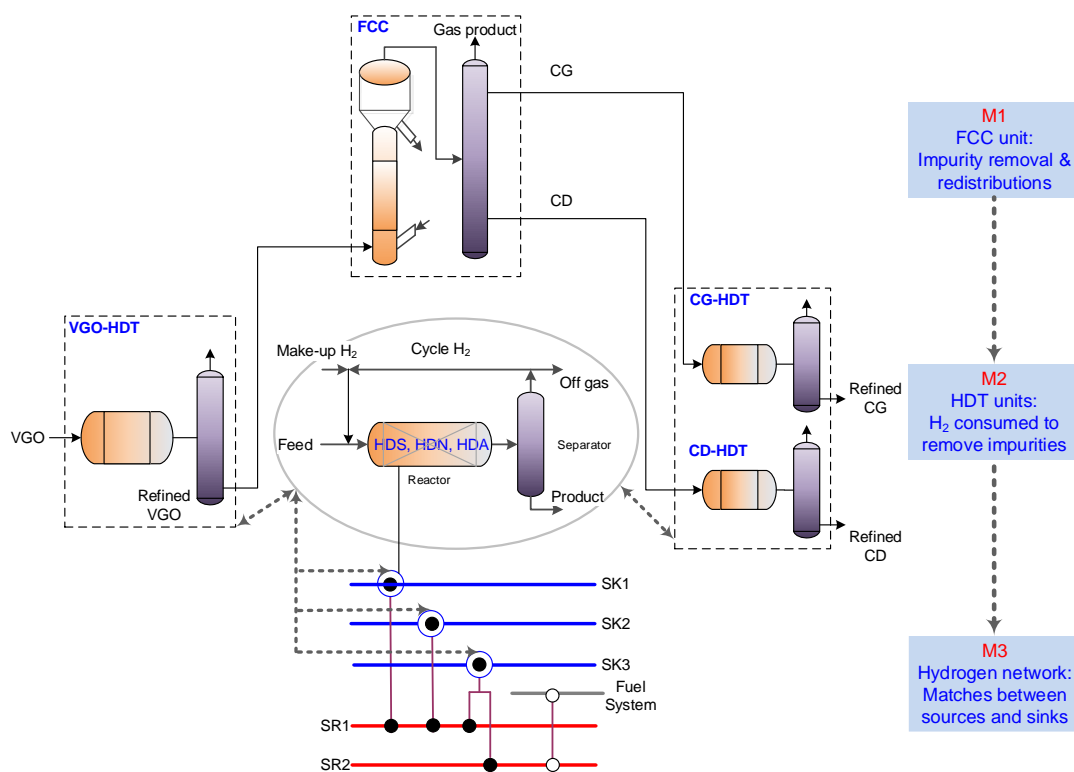
Revised Date: 3 April 2018

Accepted Date: 2 May 2018

Please cite this article as: Wu L, Liang X, Kang L, Liu Y, Saffron CM, Hydrogen network optimization by integrating impurity distributions of a fluid catalytic cracker and hydrogenation reaction kinetics, *Journal of Cleaner Production* (2018), doi: 10.1016/j.jclepro.2018.05.014.

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Graphical Abstract



A stepwise optimization strategy using three mathematical models (M1, M2 and M3) is proposed to minimize the hydrogen consumption considering impurity distributions within the FCC unit and hydrogenation reaction kinetics.

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