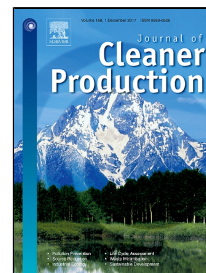


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A Novel Metric of Sustainability for Petroleum Refinery Projects

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Highlights

This study develops the sustainability indicators for a PRI with regard to three pillars of sustainable development;

A novel Metric of Sustainability (MOS) was proposed for decision makers to properly set up the process for design, construction, and operation of new refinery projects

Case study of assessing the degree of sustainability for a given petroleum refinery was developed

The results of this case study show that the environmental concerns are the most important issue in distillation units.

GHG emissions in the operating phase have the most adverse effect on the sustainability profile of the refinery.

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