



Exergy Calculation and Production Costs of Crude Oil Refining Processes

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- The results of the exergy and exergoeconomic analysis are very similar. The blocks presenting the highest exergy losses, exergy improvement potential and exergoeconomic improvement potential are the distillation systems, integrated by fired heaters, columns and condensers.
- Since the transformation costs (97.75%) are the most important part of the total production costs of the products of this refinery unit, they depend mainly on the cost of crude oil fed to the plant.