Purchase of 100-foot solar-powered containers for oil refineries

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The purpose of this study is to investigate the potential use of solar energy within an oil refinery to reduce its fossil fuel consumption and greenhouse gas emissions.

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These rugged, self-contained systems integrate large solar arrays, advanced battery storage, and high-capacity fuel cells -- with optional diesel redundancy when regulatory or client requirements demand it.

This paper proposes a solar-assisted method for a petrochemical refinery, considering hydrogen production deployed in Yanbu, Saudi Arabia, as a case study to greenize oil refineries.

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