

## On oily wastewater treatment using absorption

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Three times as much produced water as oil and gas products are thought to be produced globally during the oil and gas extraction process. A potential alternate source of clean water for the neighbourhood is water that has undergone produced water treatment. Adsorption is an appealing strategy for cleaning up oil spills due to its simplicity and affordability. When the adsorption substance used is environmentally beneficial, it makes it more appealing.

Recent developments in the use of carbon-based nanomaterials and other ecologically friendly materials for the adsorption of harmful organic contaminants, such as polyaromatic hydrocarbons, in wastewater are discussed. According to the findings from this research, green nanomaterials had higher removal efficiency and reproducibility. The usage of green nanomaterials has demonstrated to be sustainable and promising for PAHs cleanup, therefore additional investigations are required to overcome the potential difficulties and restrictions of green synthesis processes.

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