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| Journal Name: | [**Asian Journal of Advanced Research and Reports**](https://journalajarr.com/index.php/AJARR) |
| Manuscript Number: | **Ms\_AJARR\_132411** |
| Title of the Manuscript: | **Cost Optimization in Gas Processing: Balancing Operational Efficiency and Environmental Compliance** |
| Type of the Article |  |

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| **PART 1: Comments** | | |
|  | **Reviewer’s comment**  **Artificial Intelligence (AI) generated or assisted review comments are strictly prohibited during peer review.** | **Author’s Feedback** *(Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Please write a few sentences regarding the importance of this manuscript for the scientific community. A minimum of 3-4 sentences may be required for this part.** | **This manuscript is important for the scientific community as it explores the challenge of balancing cost savings with environmental regulations by minimizing waste in gas processing. With growing global focus on sustainability, the paper provides useful insights into using green technologies and improving operations without violating compliance rules. It also highlights key industry trends like digitalization and the shift to low-carbon energy, making it relevant for industry experts and policymakers. The findings and recommendations add value to discussions on sustainable industrial practices, making this study a timely**  **and useful contribution to the field.** |  |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | The current title, **"Cost Optimization in Gas Processing: Balancing Operational Efficiency and Environmental Compliance,"** effectively conveys the central outlining of the paper. |  |
| **Is the abstract of the article comprehensive? Do you suggest the addition (or deletion) of some points in this section? Please write your suggestions here.** | **The abstract provides a overview of the manuscript by highlighting the key findings of cost optimization and environmental compliance in gas processing. It effectively outlines the challenges, approaches, and emerging trends in the industry. However, some areas could be improved for clarity and comprehensiveness like rising costs of environmental regulations vs. profitability concerns. The abstract should briefly indicate whether the paper is based on a literature review, case studies, or data analysis.**  **This would help the reader understand the foundation of the study.** |  |
| **Is the manuscript scientifically, correct? Please write here.** | **The manuscript appears to be scientifically sound, as it discusses key aspects of gas processing, including cost optimization, environmental compliance, and the integration of sustainable practices.** |  |
| **Are the references sufficient and recent? If you have**  **suggestions of additional references, please mention them in the review form.** | **The references in the manuscript appear to be fairly recent, with many sources from 2020 to 2024, which suggests that the paper is built on up-to-date research.**  **1. If possible please add some reference for life-cycle assessment (LCA).** |  |
| **Is the language/English quality of the article suitable for scholarly communications?** | **The English quality is suitable for scholarly communication.** |  |
| **Optional/General** comments |  |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)* |
| **Are there ethical issues in this manuscript?** | *(If yes, Kindly please write down the ethical issues here in details)* |  |

**Reviewer details:**

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