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| Journal Name: | [**Current Journal of Applied Science and Technology**](https://journalcjast.com/index.php/CJAST) |
| Manuscript Number: | **Ms\_CJAST\_139672** |
| Title of the Manuscript: | **EVALUATING COST-BENEFIT IMPLICATIONS OF AI-DRIVEN PREDICTIVE ANALYTICS FOR ENVIRONMENTAL COMPLIANCE AND SUSTAINABILITY IN OIL AND GAS REFINERY OPERATIONS** |
| 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** (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 examines a significant and underexplored area—how AI-driven predictive analytics can reduce costs while enhancing environmental compliance in oil and gas refinery operations. It offers both theoretical insights and practical value to researchers and industry professionals, particularly in the context of increasing sustainability regulations. | Nil |
| **Is the title of the article suitable?**  **(If not please suggest an alternative title)** | Yes, the title is very much appropriate. | Nil |
| 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 is clear but wordy. Tighten the language by avoiding repetition, mentioning specific methods (systematic review) earlier, and clarifying the real-world significance of the findings. | Nil |
| Is the manuscript scientifically, correct? Please write here. | The paper presents a methodological approach and discusses the advantages, risks, and practical examples. The inclusion of case studies (Chevron, Shell, Sinopec, TotalEnergies) adds to its credibility. | Nil |
| **Are the references sufficient and recent? If you have suggestions of additional references, please mention them in the review form.** | Yes. The paper cites a broad range of **recent and relevant** literature (2020–2025). | Nil |
| Is the language/English quality of the article suitable for scholarly communications? | Overall, the paper is acceptable. However, it would benefit from editing to improve grammar, sentence clarity, and flow—particularly in the abstract and introduction. A professional language review is recommended. | Done |
| Optional/General comments |  |  |

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| **PART 2:** | | |
|  | **Reviewer’s comment** | **Author’s Feedback** (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)* |  |