

REVIEWER'S REPORT

Manuscript No.: IJAR-59009

Title: Smart Control and Instrumentation Strategies for Optimizing Gasification Processes in Saudi Arabia's Integrated Energy Facilities.

Recommendation:

Accept as it is

Accept after minor revision.....

Accept after major revision ...✓.....

Do not accept (*Reasons below*)

Rating	Excel.	Good	Fair	Poor
Originality		✓		
Techn. Quality			✓	
Clarity			✓	
Significance		✓		

Reviewer's ID: JPR- DR PRITI GUPTA

Detailed Reviewer's Report

1. Define all abbreviations at first appearance,
2. Table 1 is useful, but several entries are descriptive rather than evidence-based. Consider adding representative references and quantitative performance indicators.
3. Table 2 is useful for conceptual comparison, but the evidence column should be expanded to indicate whether each method was validated through simulation, pilot experiments or industrial operation.
4. Figure 1 should be provided at high resolution. The architecture should clearly identify the direction and nature of data/control signals.
5. Figure 2 should use larger fonts and provide a clearer explanation of the criteria for moving between stages.
6. Several sentences are unnecessarily long and should be divided for improved readability.
7. English language editing is recommended. There are grammatical and stylistic issues throughout the manuscript.
8. The manuscript should avoid making recommendations as established facts where the evidence is primarily conceptual.
9. The conclusions should distinguish clearly between **findings from the literature** and **the authors' proposed Saudi framework**.