

DG-TEA Compliance Checklist (Reviewer Edition)

Version: v1.0 | Date: 2025-12-13

Use: Binary checklist (YES / NO / NOT APPLICABLE). No scoring or weighting.

Instructions

- Mark each item YES / NO / N/A.
- Cite evidence locations (section, table, appendix) or “Not provided”.
- Variances must include classification and disposition.
- Every YES must cite evidence artifact IDs. If required evidence is missing, incomplete, or uncited, mark NO. Defaults to Review Required per DG-TEA v1.0.

Benchmark Anchoring

Item	Evidence required	Evidence Artifact ID(s)	YES/NO/N/A	Notes
Benchmark source cited (e.g., NREL/TP-5100-92412)	Formal citation and section reference	A1, A8		Hashes locked (A4–A10)
Aggregate metrics reproduced within $\pm 10\%$	Benchmark vs. model tables	A8		A8 hash DC7E... FDEF80
Key ratios anchored to benchmark	Cost/throughput ratios vs. benchmark	A4, A5, A8		A4 hash 47CC... 314DFF; A5 hash 6576... B5792
Benchmark metric universe declared	Coverage table listing benchmark metrics	metric_coverage.csv		From artifact bundle
All benchmark metrics included or explicitly excluded with rationale	Coverage table with inclusion (Y/N) and reason if excluded	metric_coverage.csv		All 8 included

Scope Discipline

Item	Evidence required	Evidence Artifact ID(s)	YES/NO/N/A	Notes
Validated domain explicitly stated	Domain, feedstocks, pathway			
Exclusions explicitly listed	Technologies, geos, incentives not covered			
Assumption class stated	AACE class and uncertainty bounds			

Variance Classification

Item	Evidence required	Evidence Artifact ID(s)	YES/NO/N/A	Notes
Variations logged by class (Data/Method/Implementation)	Variance log table	A10		A10 hash D538...AE2F (5 variances, 1 HIGH)
Each variance has disposition	Accept / Remediate / Investigate	A10		All entries populated
Public reporting uses categories only	Validated / Acceptable / Review Required (no percentages)	A8		A8 hash DC7E...FDEF80
Decision-impact test provided for all Moderate/High variances	Variance log with $\pm X\%$ MFSP / \pm IRR / ranking test	A10		HIGH variance IRR +20% has DIT
Decision threshold explicitly stated (MFSP / IRR / ranking)	Threshold noted per variance	A10		Thresholds recorded

Balance Closure & Internal Consistency

Item	Evidence required	Evidence Artifact ID(s)	YES/NO/N/A	Notes
Mass balance closure >=95–98% (target 98%)	M&E appendix	A6		
Energy balance closure >=95–99% (target 99%)	M&E appendix	A7		
Financials reconcile across statements	CAPEX/OPEX/throughput/discount alignment	A4, A5, A8		

Auditability & Reproducibility

Item	Evidence required	Evidence Artifact ID(s)	YES/NO/N/A	Notes
Every reported figure traceable to source	Input tables with IDs/versions	artifact_index.csv		
Calculation steps versioned	Code/assumption version IDs or change log	artifact_manifest.json		
Runnable reproduction path demonstrated OR attestation provided; absence defaults to Review Required	Inputs + steps + outputs to rerun results, or signed attestation	attestation.json		
Reproduction attestation completed (who / when / environment / result)	Attestation record	attestation.json		