

Deterministic Case Verification Report

Index

Chapter	Title	Description
01	Executive Summary	Optimal configurations and key recommendations
02	Parameters	All input parameters with units and sources
03	Case 1: Busan Storage	Detailed cycle time and cost verification
04	Case 2-1: Yeosu to Busan	Long-distance supply analysis
05	Case 2-2: Ulsan to Busan	Short-distance supply analysis
06	Comparison	Cross-case comparison with D-series figures
07	Conclusion	Verification checklist and recommendations

Quick Reference: Optimal Configurations

Case	Optimal Shuttle	NPC (20yr)	LCOAmmonia	Pump Rate
Case 1 (Busan)	2,500 m3	\$237.05M	\$1.01/ton	1000 m3/h
Case 2-1 (Yeosu)	10,000 m3	\$747.18M	\$3.17/ton	1000 m3/h
Case 2-2 (Ulsan)	5,000 m3	\$402.37M	\$1.71/ton	1000 m3/h

Report Information

- **Version:** 1.0
- **Date:** 2025-01-20
- **Pump Rate:** 1000 m3/h (fixed)
- **Discount Rate:** 0.0 (no discounting)
- **Time Period:** 2030-2050 (21 years)

Figures Directory

All figures referenced in this report are located at: `results/paper_figures/`

Series	Content
D1-D5	Core deterministic analysis (required)
D6-D12	Extended analysis (optional)
S1-S7	Stochastic analysis
C1-C4	Combined/comparison figures