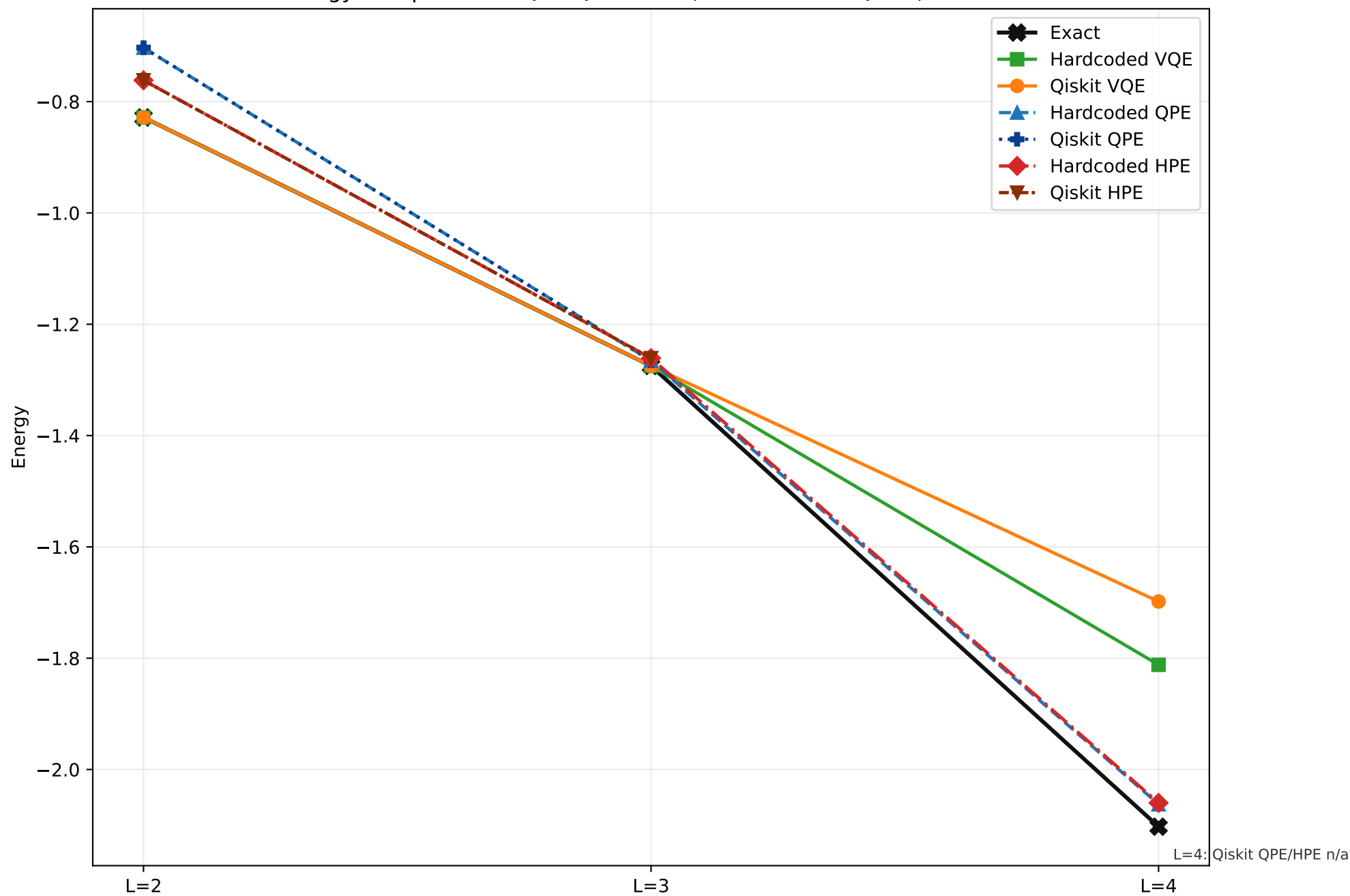
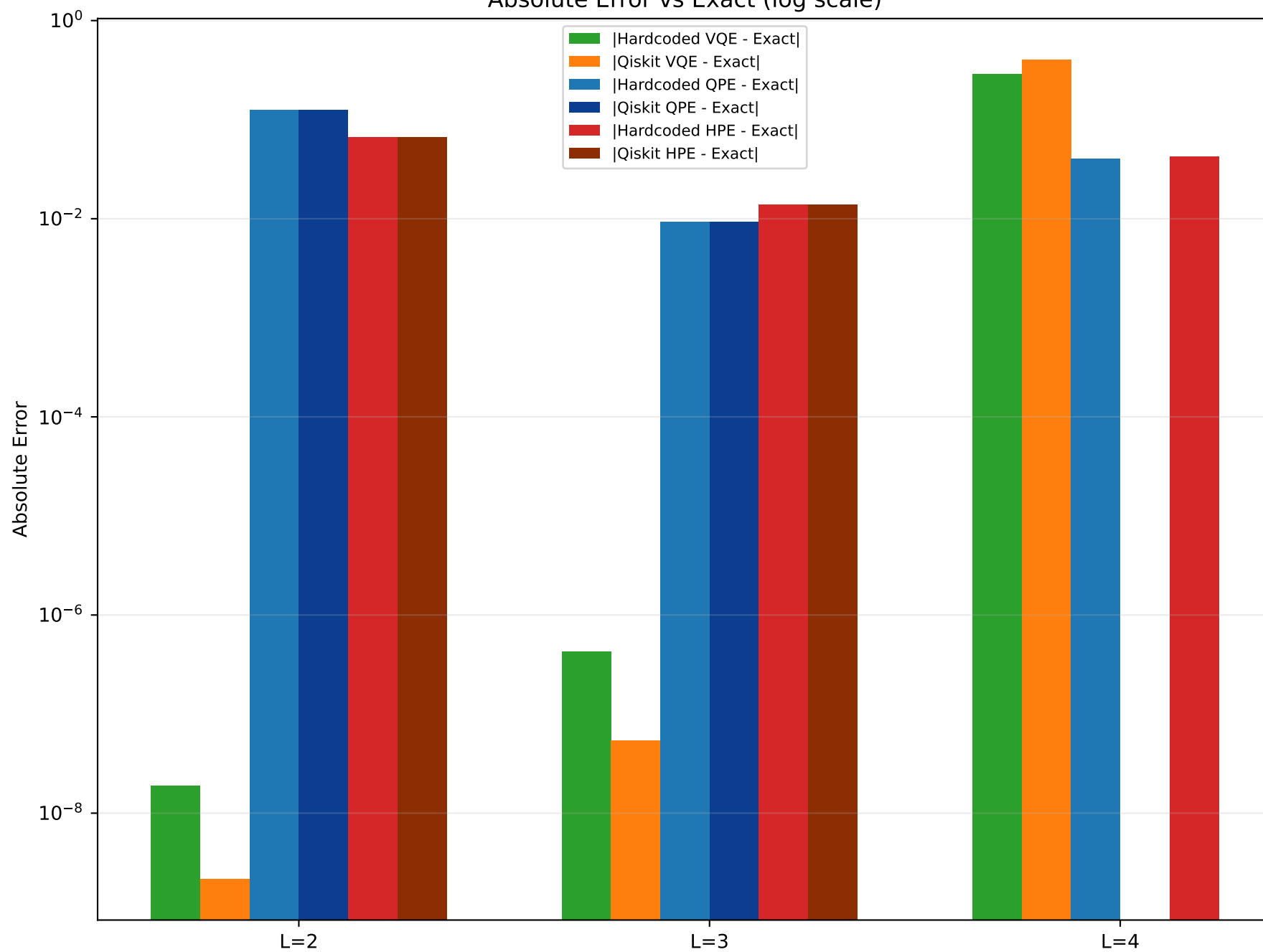


Energy Comparison: VQE / QPE / HPE (Hardcoded vs Qiskit) vs Exact



Absolute Error vs Exact (log scale)



Data table (energy values)

Columns: L, exact, hardcoded_vqe, qiskit_vqe, hardcoded_qpe, qiskit_qpe, hardcoded_hpe, qiskit_hpe

L=2	exact=-0.8284271247461902	hardcoded_vqe=-0.8284271058048679	qiskit_vqe=-0.8284271225858459	hardcoded_qpe=-
L=3	exact=-1.2749172176353751	hardcoded_vqe=-1.2749167910984351	qiskit_vqe=-1.2749171630977223	hardcoded_qpe=-
L=4	exact=-2.102748483462073	hardcoded_vqe=-1.8118908431778067	qiskit_vqe=-1.6981962214900943	hardcoded_qpe=-

Interpretation notes

- 1) 'Exact' is exact filtered-sector energy from diagonalization of the same model settings.
- 2) QPE/HPE are plotted separately for hardcoded and prior Qiskit when available.
Current repository artifact has prior Qiskit QPE/HPE for L=2 and L=3 only.
L=4 Qiskit QPE/HPE is marked n/a in this report.
- 3) Time-dynamics pages use exact vs trotter traces per implementation.
'Trotter-vs-Exact' plots are absolute self-error diagnostics, not cross-implementation deltas.