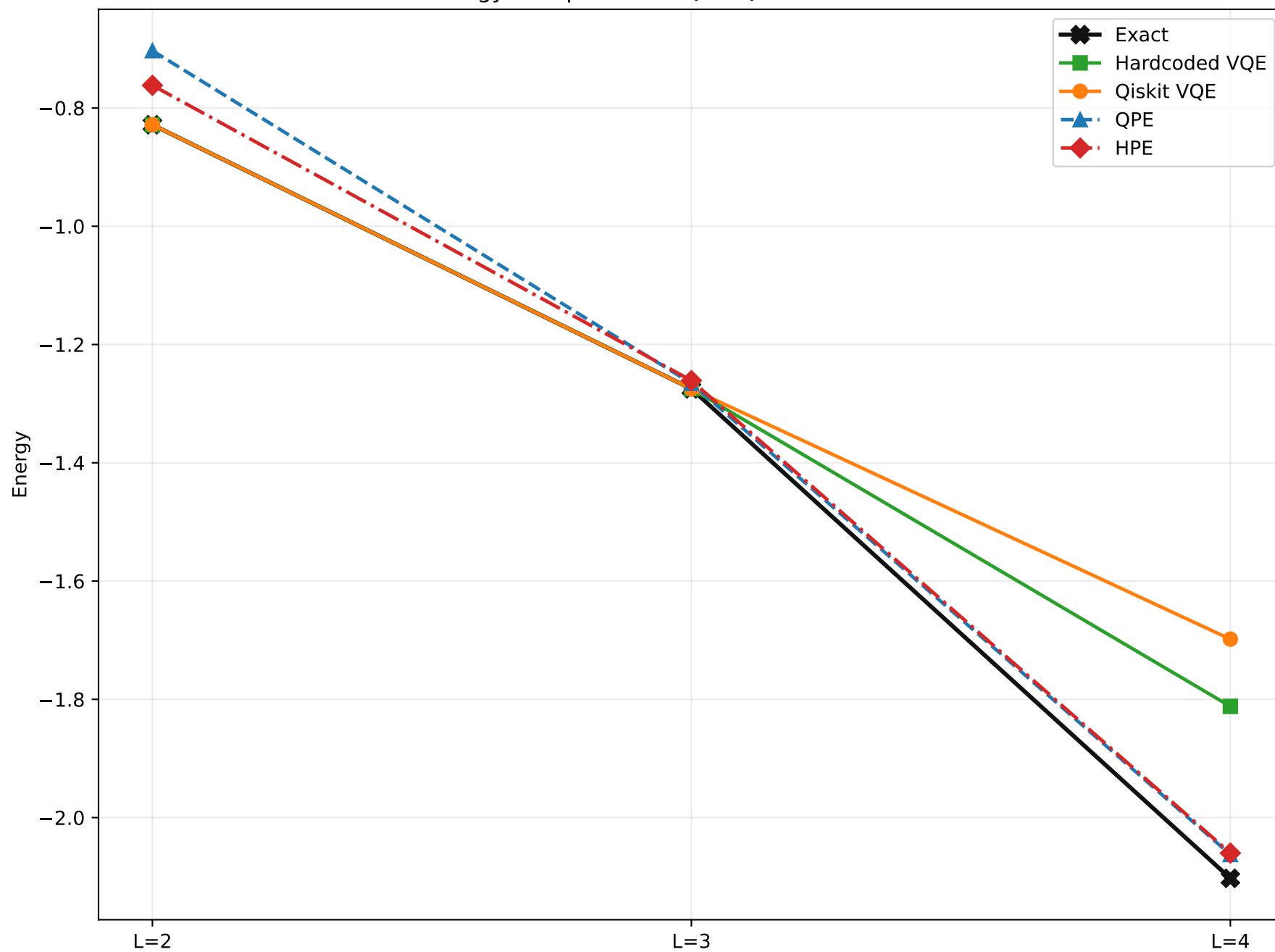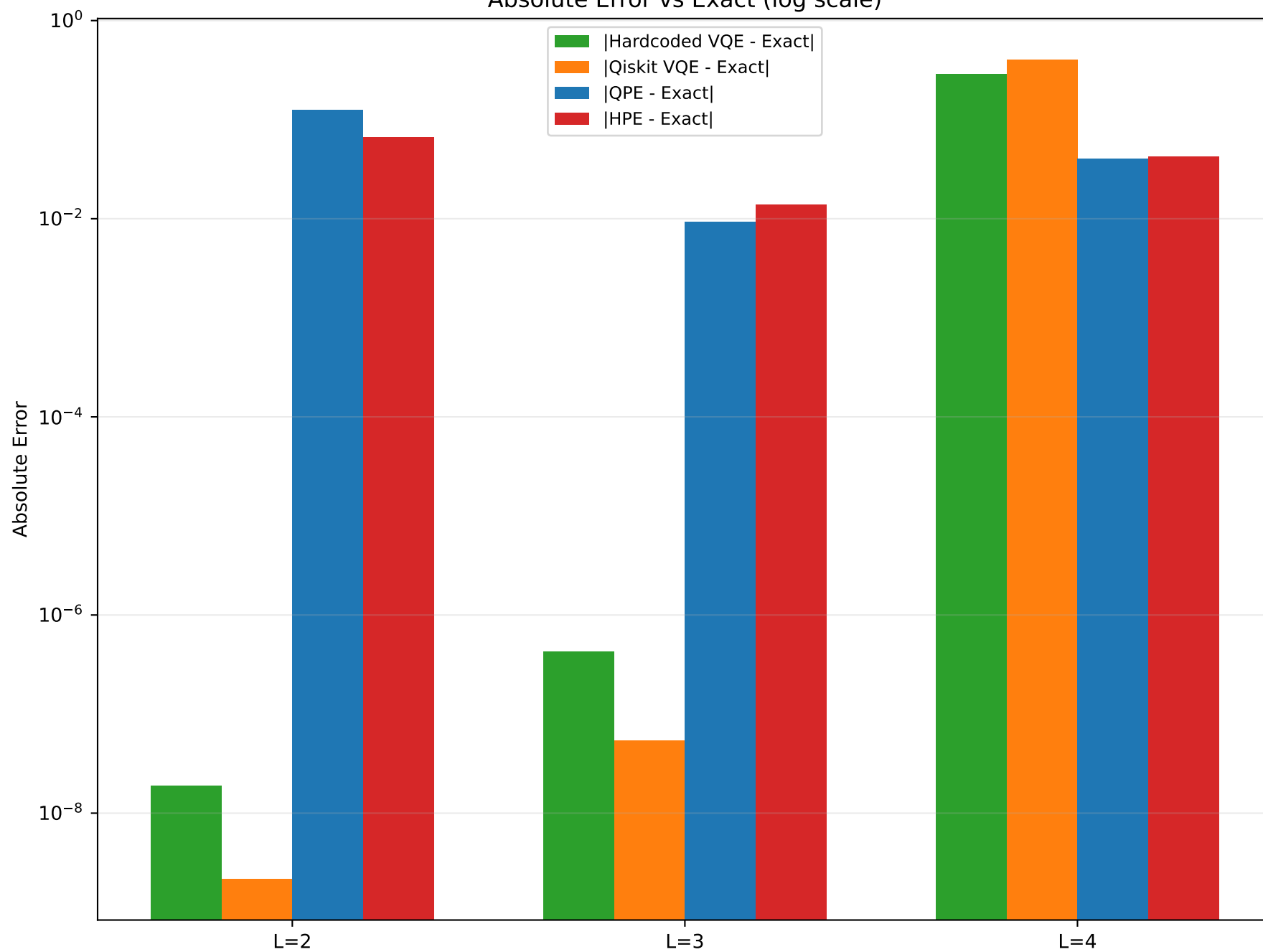Energy Comparison: VQE / QPE / HPE vs Exact

Absolute Error vs Exact (log scale)

Data table (energy values)

Columns: L, exact, hardcoded_vqe, qiskit_vqe, qpe, hpe

L=2 exact=-0.8284271247461902 hardcoded_vqe=-0.8284271058048679 qiskit_vqe=-0.8284271225858459 qpe=-0.703125
L=3 exact=-1.2749172176353751 hardcoded_vqe=-1.2749167910984351 qiskit_vqe=-1.2749171630977223 qpe=-1.265625
L=4 exact=-2.102748483462073 hardcoded_vqe=-1.8118908431778067 qiskit_vqe=-1.6981962214900943 qpe=-2.0625 hp