

ADAPT/VQE Benchmark Summary

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Settings:

```
sites=[2, 3] t=1.0 u=4.0 dv=0.5 boundary=open ordering=blocked odd_policy=min_sz  
ADAPT(inner_optimizer=lbfsgs, inner_steps=1, max_depth=1, max_time_s=1.0)  
VQE(reps=2, restarts=3, maxiter=600, seed=7)
```

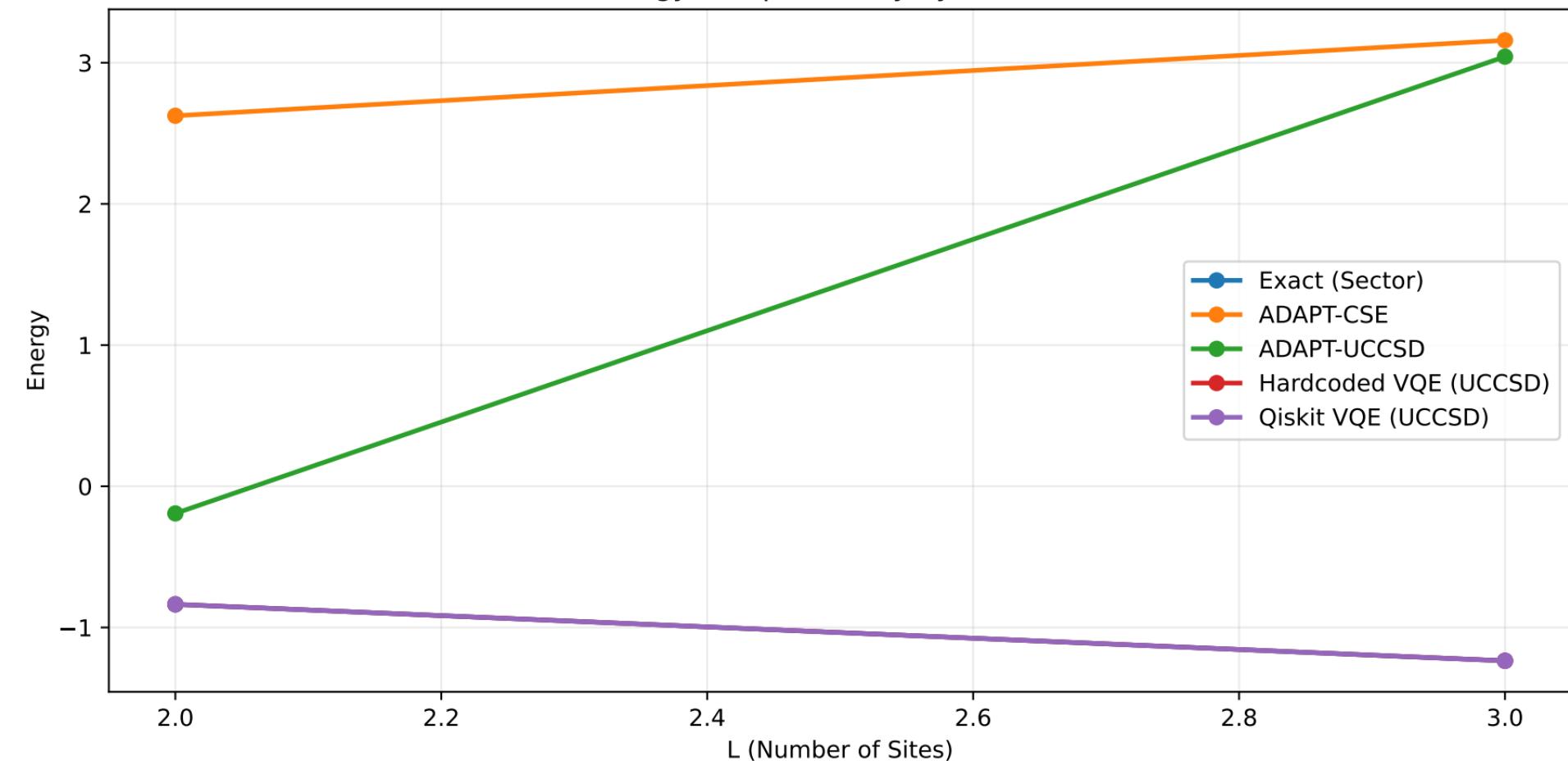
L=2 (n_up=1, n_down=1)

Exact (Sector)	E=-0.836057118155 dE =0.000e+00 t=0.00s
ADAPT-CSE	E= 2.624209203055 dE =3.460e+00 t=0.25s
ADAPT-UCCSD	E=-0.192228194594 dE =6.438e-01 t=0.20s
Hardcoded VQE (UCCSD)	E=-0.836057108255 dE =9.900e-09 t=0.15s
Qiskit VQE (UCCSD)	E=-0.836057117595 dE =5.600e-10 t=5.14s

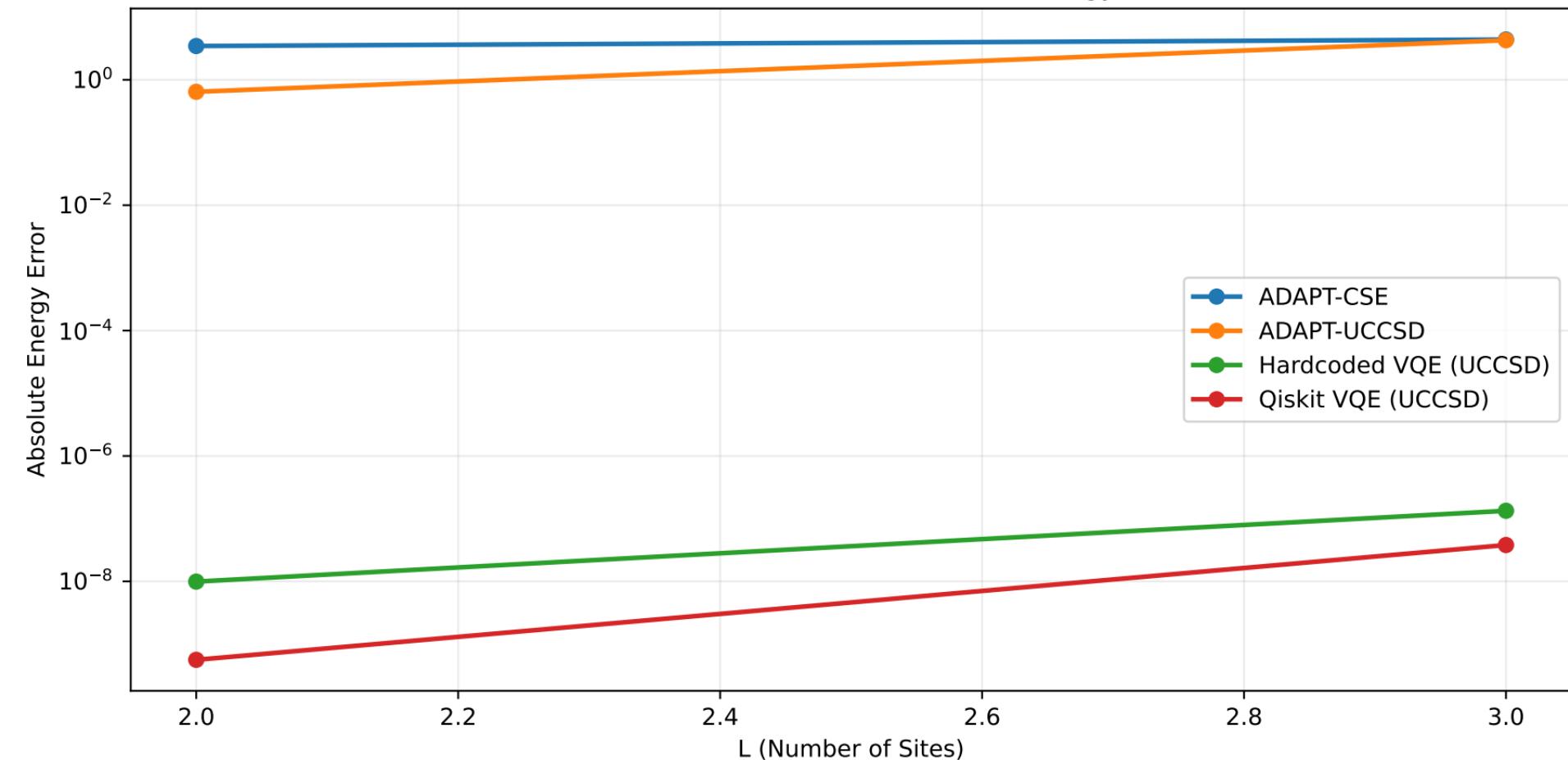
L=3 (n_up=2, n_down=1)

Exact (Sector)	E=-1.236067977500 dE =0.000e+00 t=0.00s
ADAPT-CSE	E= 3.158529015596 dE =4.395e+00 t=0.79s
ADAPT-UCCSD	E= 3.043066873062 dE =4.279e+00 t=0.90s
Hardcoded VQE (UCCSD)	E=-1.236067844029 dE =1.335e-07 t=8.50s
Qiskit VQE (UCCSD)	E=-1.236067939546 dE =3.795e-08 t=122.31s

Energy Comparison by System Size



Absolute Error vs Exact Sector Energy



Runtime by Method

