

# ADAPT/VQE Benchmark Summary

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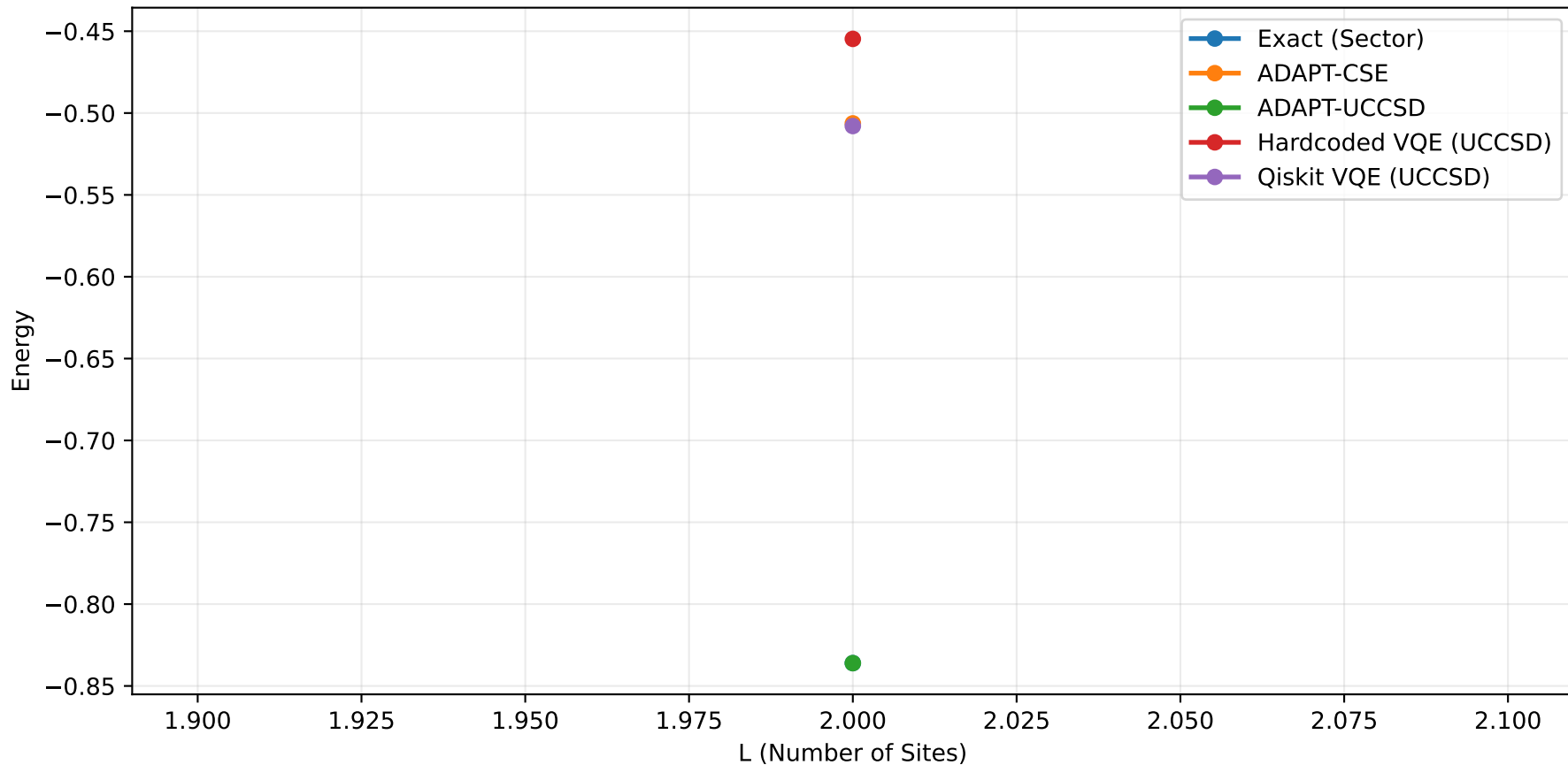
## Settings:

```
sites=[2] t=1.0 u=4.0 dv=0.5 boundary=open ordering=blocked odd_policy=min_sz
ADAPT(inner_optimizer=lbfgs, inner_steps=40, max_depth=4, max_time_s=30.0, allow_repeats=True)
VQE(reps=1, restarts=1, maxiter=60, seed=7)
```

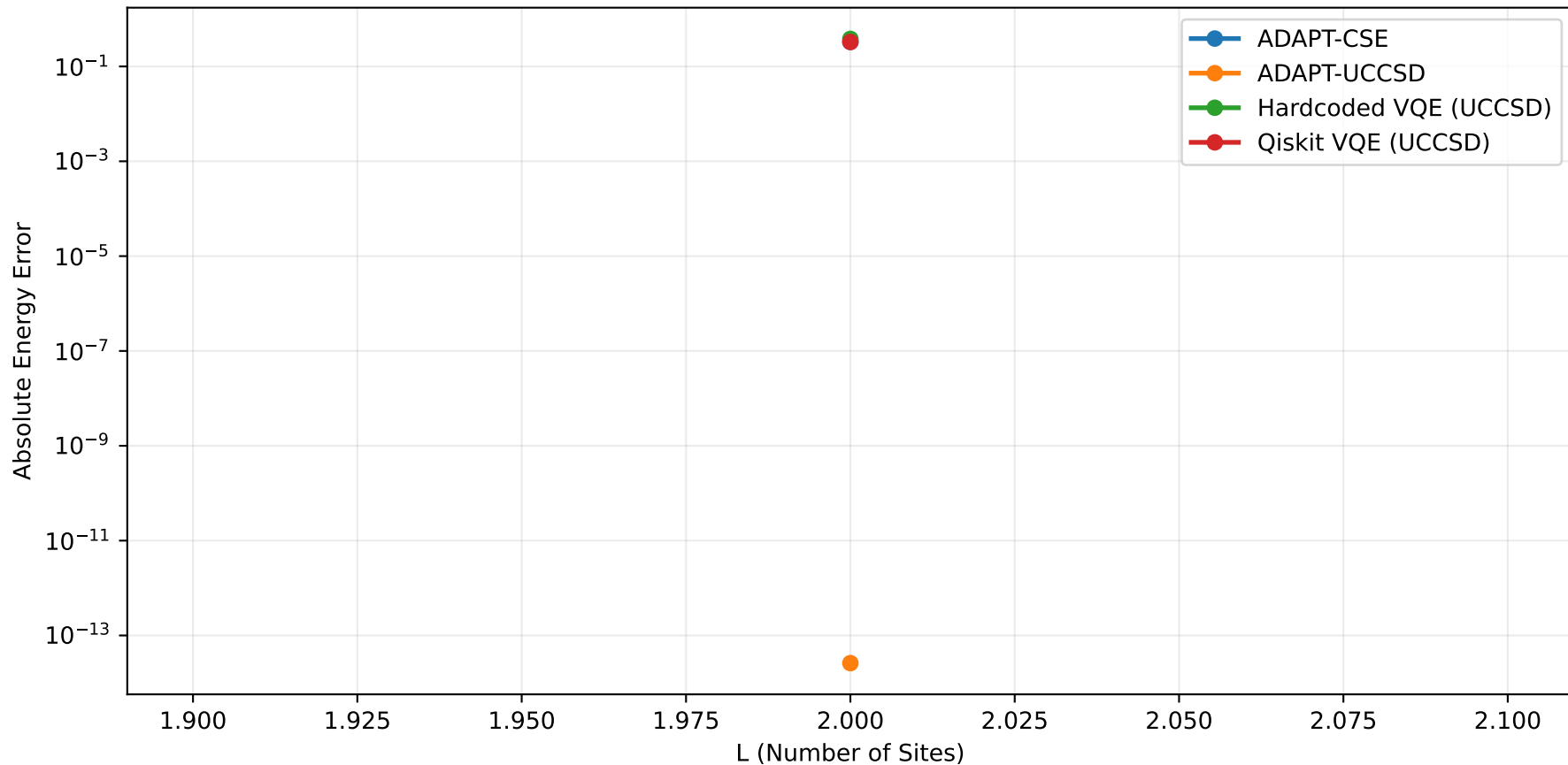
L=2 (n\_up=1, n\_down=1)

Exact (Sector)	E=-0.836057118155	dE =0.000e+00	t=0.00s
ADAPT-CSE	E=-0.506312970693	dE =3.297e-01	t=1.79s
ADAPT-UCCSD	E=-0.836057118155	dE =2.609e-14	t=9.97s
Hardcoded VQE (UCCSD)	E=-0.454692982308	dE =3.814e-01	t=0.02s
Qiskit VQE (UCCSD)	E=-0.507936490187	dE =3.281e-01	t=0.39s

Energy Comparison by System Size



Absolute Error vs Exact Sector Energy



Runtime by Method

