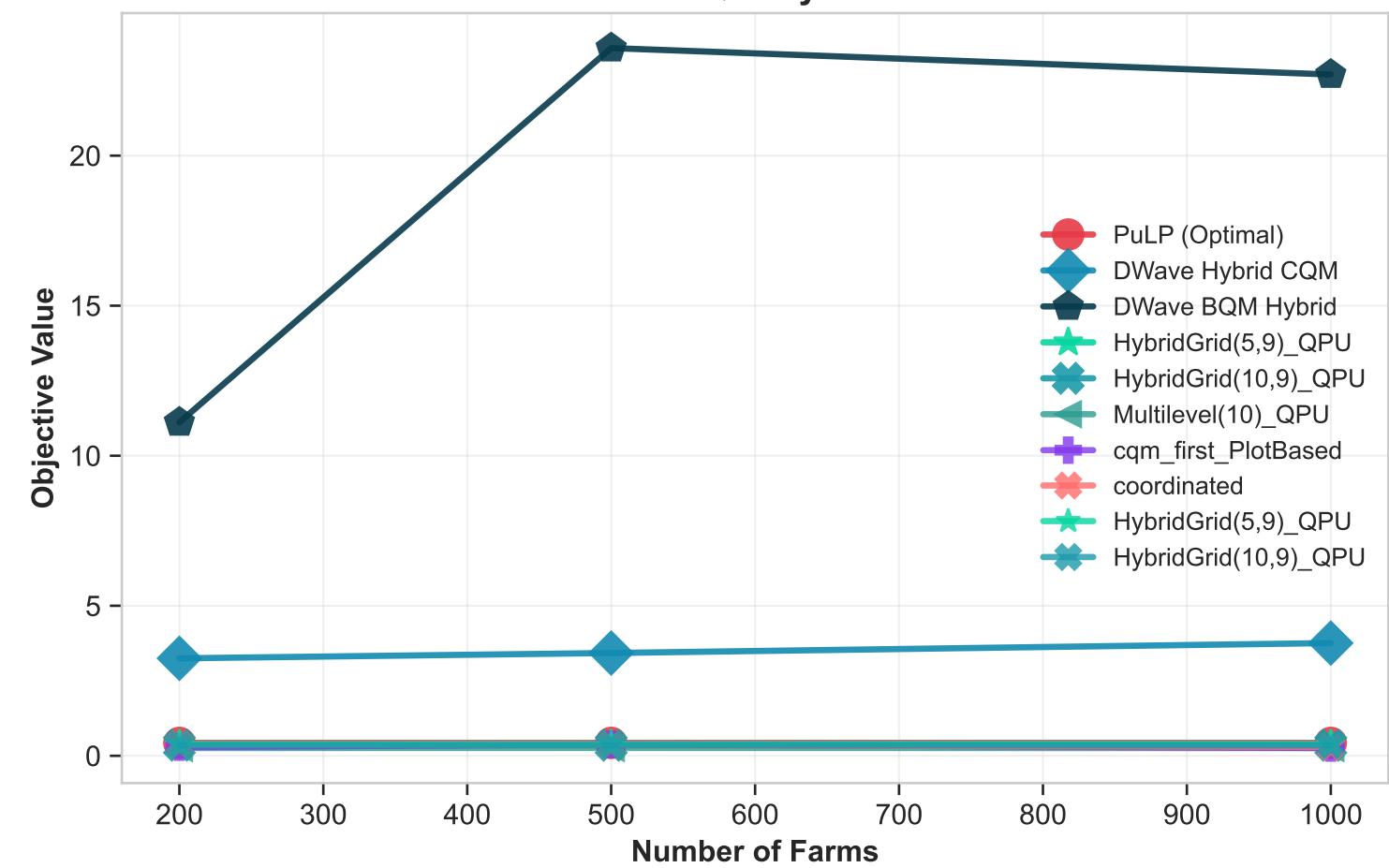


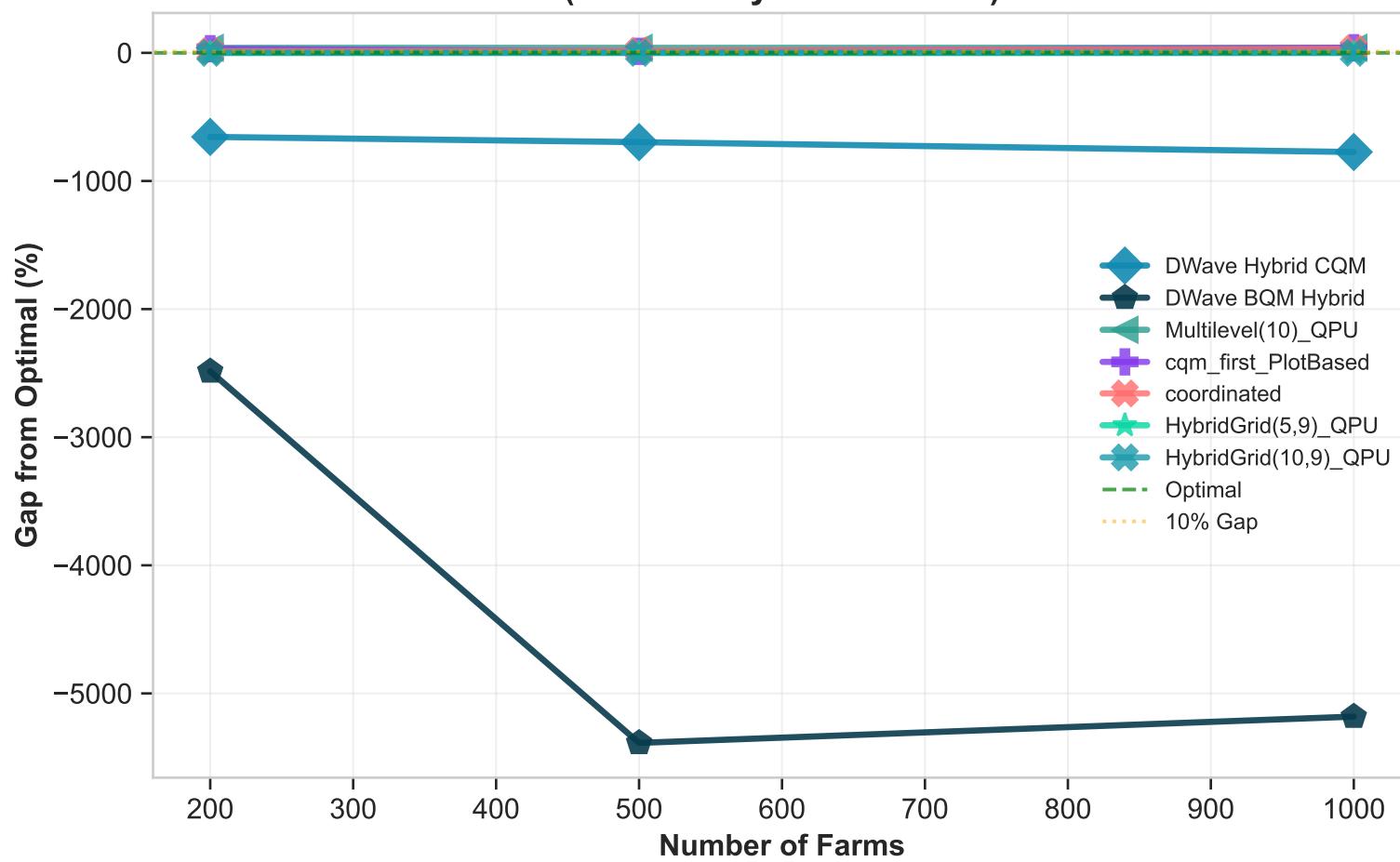
Large-Scale QPU Benchmark (200-1000 Farms)

3 Scalable QPU Methods + Classical/Hybrid Baselines

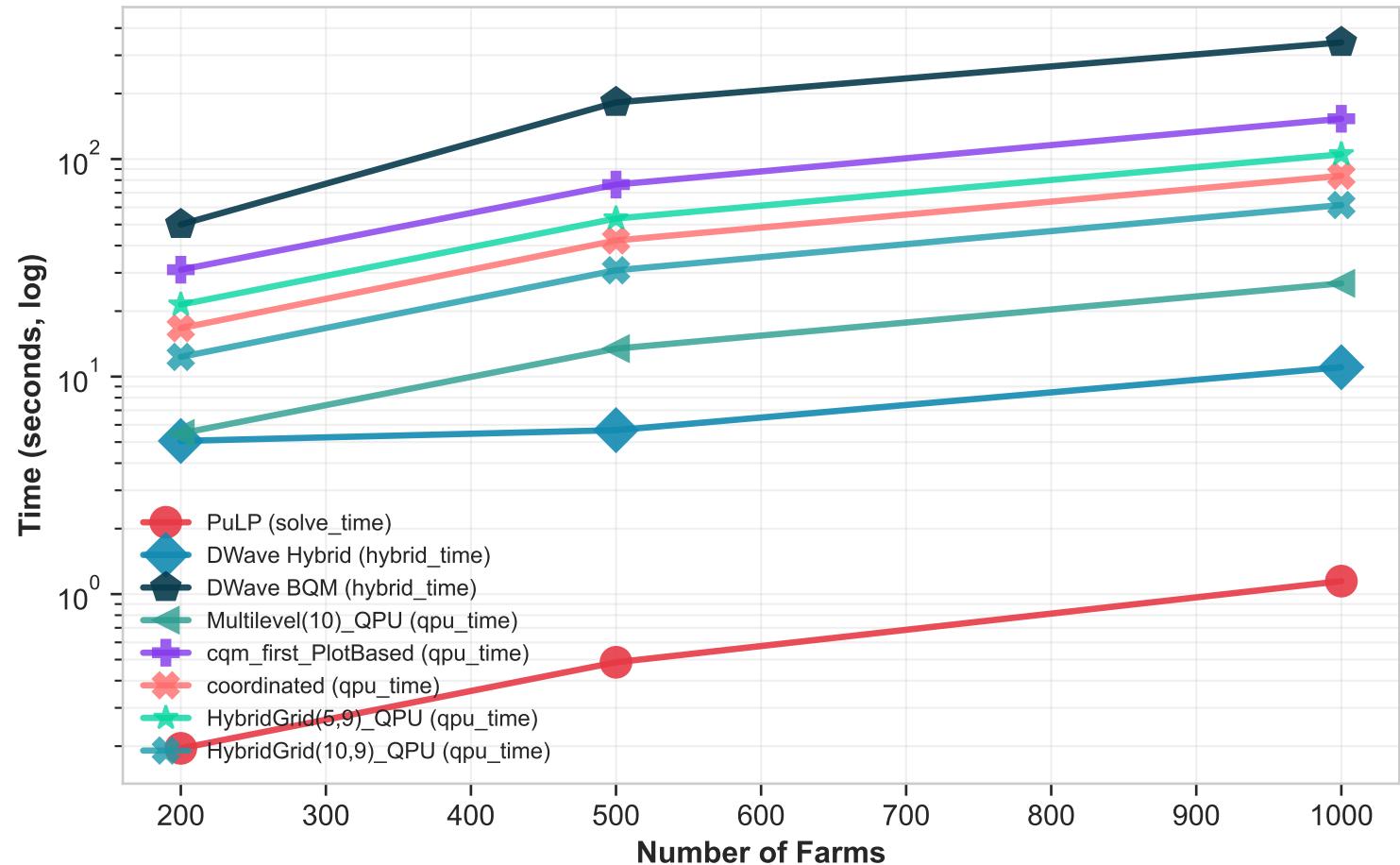
Solution Quality at Scale



**Optimality Gap at Scale
(includes Hybrid methods)**



Solve Time Comparison
(PuLP: solve_time, DWave: hybrid_time, QPU: qpu_time)



**Solution Efficiency vs Problem Size
(higher is better)**

