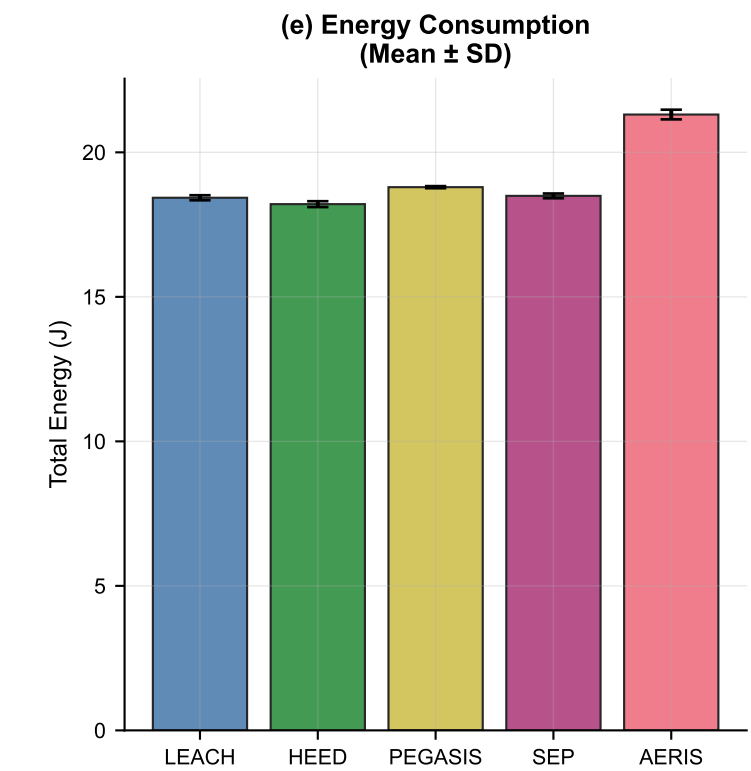
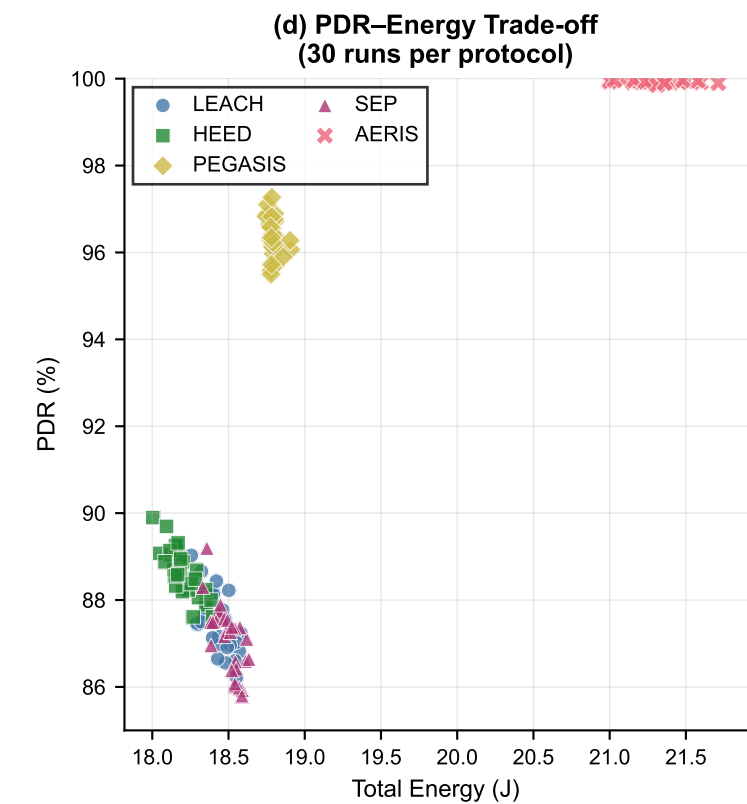
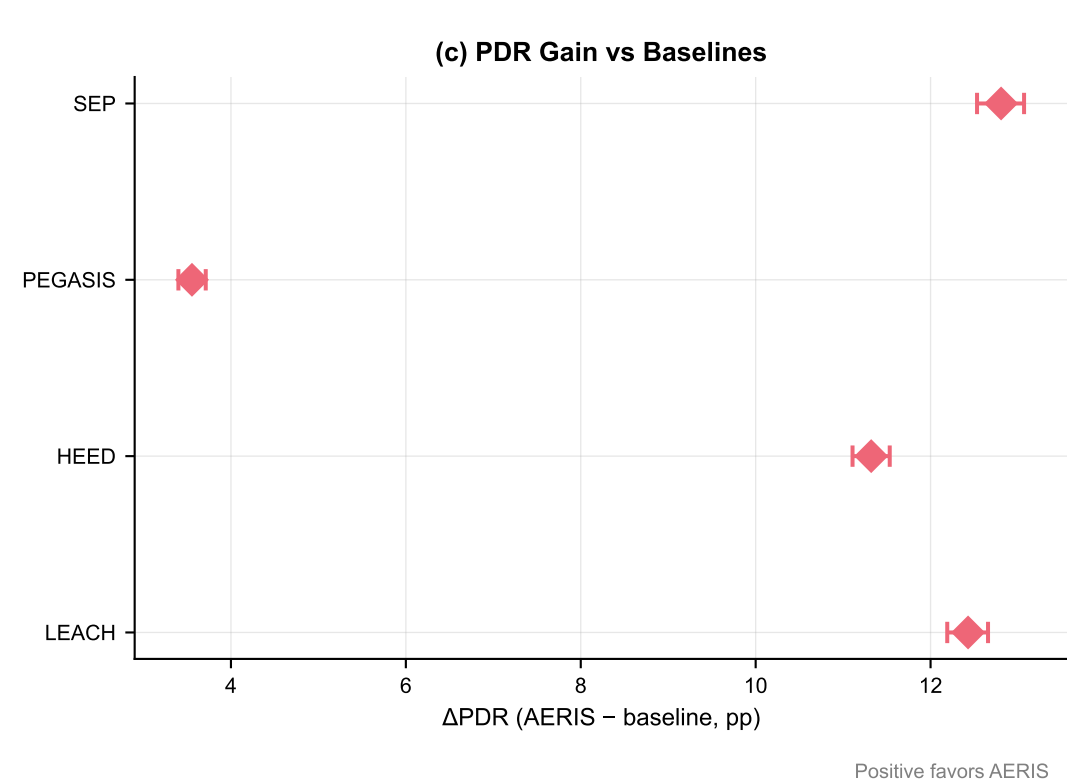
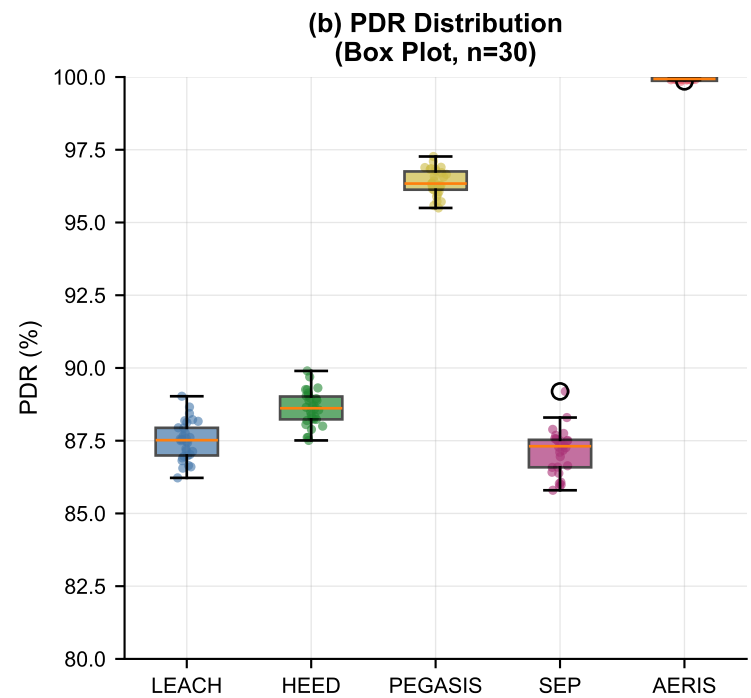
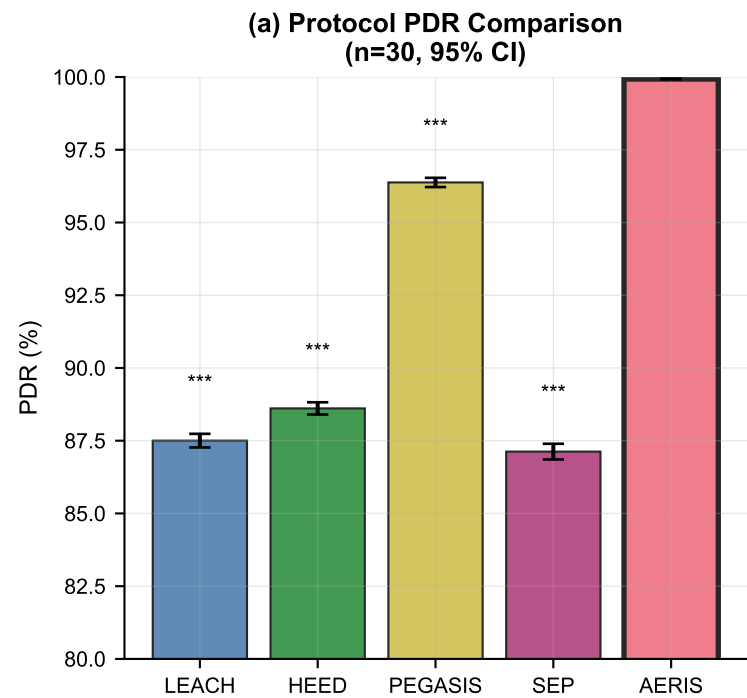


AERIS: SOTA Protocol Comparison with Rigorous Statistical Testing
(Same geometry/energy model; AERIS includes full reliability stack, n=30 runs each)



(f) Statistical Validation Summary
(Shapiro-Wilk → Levene → t-test)

Baseline	Test	p	ΔPDR (pp)	Direction
LEACH	Welch's t-test	1.0e-38	12.43	AERIS higher
HEED	Welch's t-test	6.2e-39	11.32	AERIS higher
PEGASIS	Welch's t-test	5.6e-28	3.55	AERIS higher
SEP	Welch's t-test	2.5e-37	12.81	AERIS higher