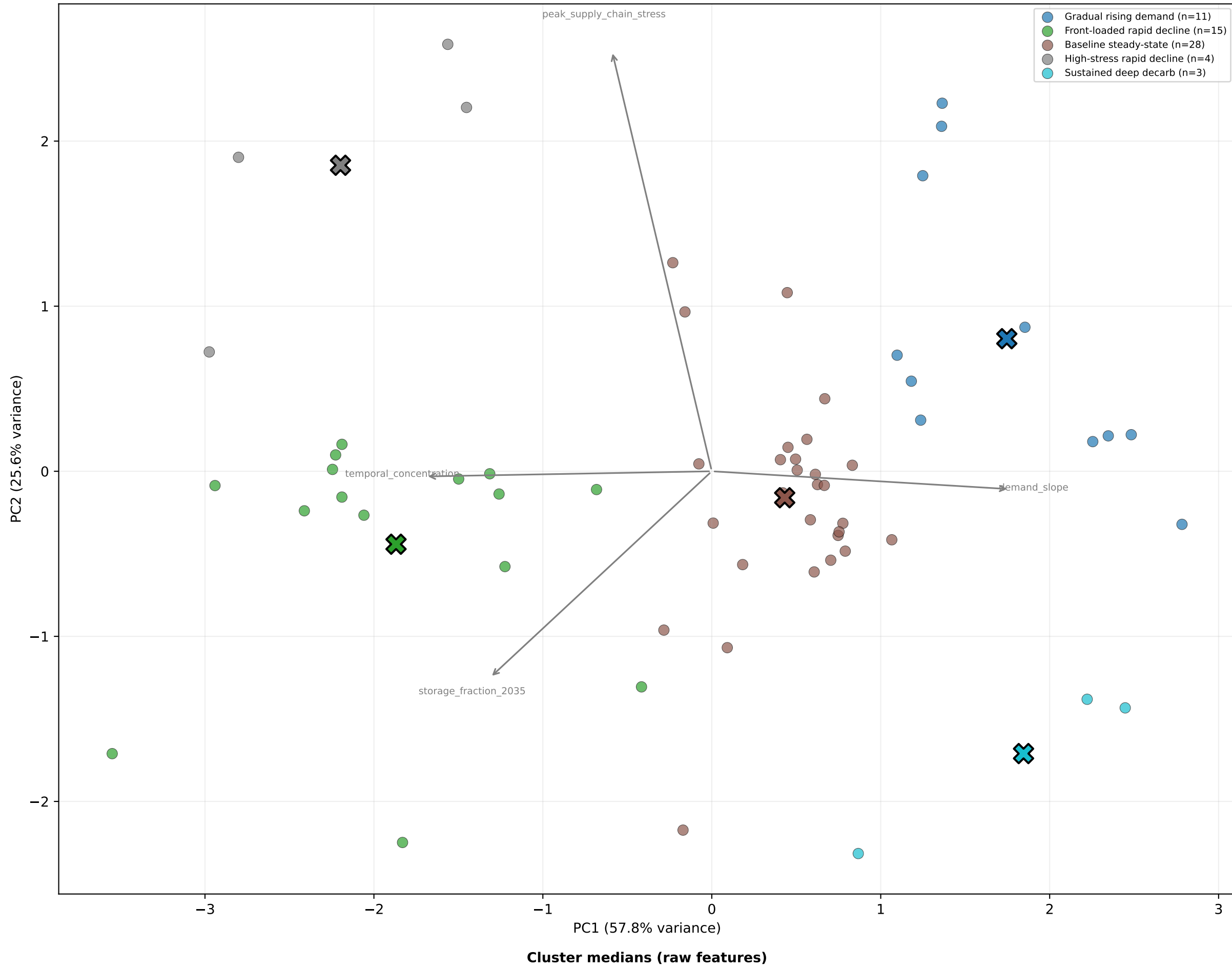


PCA biplot — scenarios



	Demand slope	Temporal conc.	Storage frac.	peak_supply_chain_stress
Gradual rising demand	238.8k	1.38	0.05	0.24
Front-loaded rapid decline	-1.2M	3.94	0.08	0.23
Baseline steady-state	-100.6k	1.57	0.06	0.23
High-stress rapid decline	-1.2M	4.39	0.07	0.28
Sustained deep decarb	1.2M	0.90	0.07	0.20