

	Customer Weights	Engineering Metrics																		
		Robust Against Accidental Drops	Ambient Operating Temperature	Ambient Operating Humidity	Minimum Operating Wind Speed	Maximum Operating Wind Speed	Ease of Use	Meet Agency Requirements	System Reliability	Design for User Assembly/Disassembly	Design for Service by Users	Minimal Space Requirements	Maximum Rotor Diameter	Storage Battery Reliability	Min req'd Energy Storage Capability	Max System Change Capability	Component Weight	Wire Length	Simple Wire Connection	Modularity for Future Systems
Customer Requirements																				
Survive Accidental Fall to Ground	3	9																		
Operate in Rochester, NY weather environment	9		9	9	9	3														
Must not be damaged in high winds	9																			
Safe and Easy to Use by Almost Anyone	9					3	9	3					3							
Must be Reliable	9	1							9				3							
Easy and Safe to Setup/teardown/diagnose/repair	3					3		3		9	9		3				3		3	
Monitor and Conveniently Display performance	3																			
Occupy no more volume than team capable of moving	1											9								
Store/provide energy repeatedly without battery replacement	3												3							
Store enough energy for the CDPC to charge 10 LVE batteries	9					3						1		9	9	9				
Fully charge the storage battery overnight under optimal cond.	3				3	3							3	3	3	3				
Easy to carry/move components	3											3	3				9			
Minimum Wiring between turbine and storage battery	1												1					9	3	
Modular System to allow for future expansion	3																			9
Technical Targets																				
		.61 m	7 to 32 °c	0 to 85%	5 km/h	45 km/h	Check	100%	25,000 Hr MBTF	30 min	30 min	9,000 cm ³	1.25 m	3 years MTBF	TBD	TBD	12 kg	10,000 mm	Pass/fail	Pass/fail
Raw score		36	81	81	90	99	81	36	81	27	27	27	54	127	90	90	36	9	12	27
Relative Weight		3%	7%	7%	8%	9%	7%	3%	7%	2%	2%	2%	5%	11%	8%	8%	3%	1%	1%	2%