

Decision Matrix

Rating Scale							
5 = Excellent 4 = Very Good 3 = Good 2 = Fair 1 = Poor							
Relative	Evaluation	Concepts					
Weights	Criteria	Solar		Outlet		Batteries	
		Rating	Score	Rating	Score	Rating	Score
25%	Cost	2	0.5	4	1	3	0.75
5%	Weight	3	0.15	5	0.25	3	0.15
25%	Power	3	0.75	5	1.25	4	1
30%	Manufacturability	2	0.6	4	1.2	5	1.5
15%	Number Of Parts	3	0.45	3	0.45	3	0.45
100%			2.45		4.15		3.85

Weights

Cost (25%): this is only one of many processes, so the cost of this one part needs to be kept low

Weight (5%): under the assumption that the device can be mounted to the ground, weight is not a big issue

Power (25%): how reliably the power supply delivers power is an important part

of Parts (15%): the device will likely involve a large install, therefore it should be easy to repair, which is helped by fewer parts

Manufacturability (30%): harder to manufacture parts will drive up costs and make repairs more difficult and expensive