

Design Assignment 10: Pugh Chart for Micro-Hydro														
		Water Wheel	Gorlov		Darius		Schneider		Pelton		Crossflow			
	weighting	base	raw	weighted	raw	weighted	raw	weighted	raw	weighted	raw	weighted		
upfront cost	2	0	1	2	1	2	1	2	1	2	1	2	1	2
maintenance cost	3	0	1	3	1	3	0	0	-1	-3	0	0	0	0
efficiency	2	0	-1	-2	-1	-2	1	2	1	2	1	2	1	2
diff flow rates	4	0	1	4	1	4	1	4	-1	-4	1	4	1	4
diff river heights	4	0	1	4	1	4	1	4	-1	-4	-1	-4	-1	-4
flex in installation	2	0	1	2	0	0	1	2	-1	-2	-1	-2	-1	-2
ease of construction	4	0	-1	-4	0	0	-1	-4	-1	-4	-1	-4	-1	-4
complexity	3	0	1	3	1	3	-1	-3	0	0	1	3	1	3
ease of repair	2	0	-1	-2	-1	-2	-1	-2	-1	-2	0	0	0	0
ease of maintainance	4	0	0	0	0	0	-1	-4	-1	-4	1	4	1	4
local materials	4	0	-1	-4	-1	-4	-1	-4	0	0	0	0	0	0
durable	3	0	-1	-3	-1	-3	-1	-3	0	0	0	0	0	0
effect of sedimentation	2	0	1	2	1	2	1	2	-1	-2	1	2	1	2
risk	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1	1
cool/innovative	2	0	1	2	1	2	1	2	0	0	0	0	0	0
submerge depth	1	0	1	1	0	0	1	1	1	1	0	0	0	0
weight	2	0	1	2	1	2	0	0	1	2	1	2	1	2
potential to reengineer	5	0	1	5	1	5	1	5	-1	-5	-1	-5	-1	-5
enviro impact	1	0	1	1	1	1	1	1	0	0	1	1	1	1
SUM		0		14		15		3		-24		5		

(diff between Gorlov and Darius is in ease of construction, flex in installation, submerge depth)