Electrical Budget Worksheet (Wildflower - Wylie 27) 1 Calculate your DC Loads:

Lighting		Amps	Hours	AH/Day	
	Running Lights			0.0	
	Masthead Tricolor Light	0.1	10	1.0	
	Anchor Light			0.0	
	Strobe Light			0.0	
	Spreader Lights			0.0	
	Cabin Light (small)	1.0	3	3.0	
	Cabing Light (big incandescent)	2.0	0.5	1.0	
	Cabing Light (flourescent)	2.0	0.5	1.0	
	Instrument Lights	0.1	10	1.0	
	Handheld Spot Light	0		0.0	
	Other			0.0	
	Other	Lighting AH	Г	7.0	
		Lighting Air	L	7.0	
Galley		Amps	Hours	AH/Day	
	Refrigeration			0.0	
	Prop Solenoid			0.0	
	Other			0.0	
		Galley AH		0.0	
Electroni		Amno	Houre	AH/Day	
Electroni	Autopilot	Amps	Hours	AH/Day 0.0	
	VHF (receive)	0.5	24	12.0	
	,	0.5	24		
	VHF (transmit)	4.5		0.0	
	SSB (receive)	1.5	3	4.5	
	SSB (transmit)	14.0	0.5	7.0	
	SSB Digital controller	0.2	2	0.4	
	GPS	0.4	24	9.6	
	Instruments			0.0	
	Weather fax receiver			0.0	
	Radar (standby)			0.0	
	Radar (transmit)			0.0	
	AIS	0.1	24	2.5	
		0.1	24	0.0	
	Energy Monitors				
	Stereo			0.0	
	Computer (screen off)		_	0.0	
	Computer (screen on)	6.0	2	12.0	
	Computer (serial adapter)			0.0	
	Fan	0.5	4_	2.0	
	Ele	ectronics AH	L	50.0	
Plumbing Amps		Hours	AH/Day		
ae	Fresh Water Pump	7 anpo	riouro	0.0	Calculate using average water consumption.
	Bilge Pump(s)			0.0	This should be zero unless the boat leaks.
					This should be zero unless the boat leaks.
	Other	N All	г	0.0	
	ŀ	Plumbing AH	L	0.0	
Inverter		Watts	Hrs/day	AH/Day	All values assume inverter efficiency = 85%.
	Microwave			0.0	Power factor may mess up this estimate.
	Chargers (nicad)			0.0	r oner racio may mose up and commuter
	9 , ,			0.0	
	Other	Inverter AH	Г	0.0	
		Inverter An	L	0.0	
	Gross Energy Consumption AH/Da	ay		57.0	
A.14	. F O		_		
Alternative	Energy Sources		11/1.	A11/1-	
	Device	Amps	Hrs/day	AH/day	
	Solar, avg	6.6	9	59.4	Two 45 watt panels
	Wind, avg			0.0	Assumes AIR Marine wind turbine in good location.
	Water, avg.			0.0	
	Contribution of AES AH/Day			59.4	
Not Eners	or Consumption ALI/Day		г	-2.4	
Net Energy Consumption, AH/Day			L	-2.4	
Desired Hours Between Charging			24		
Range of Battery Use		Г	0.35	For example, from 50-85% state of charge.	
Recommended Battery Capacity		Г	-7	•	
Alternator Output, Amps		F	35	Target would be 25% flooded, 40% gel, of capacity.	
Charge Efficiency Factor			0.85	Gels = 95%, flooded cells = 85%	
Minimum Minutes to Charge		L			
wiiiiiiiiiiiii	williates to Charge			-5	Assumes alternator runs at full output.