

Power

Computer Hub	01/03/21			
Pi	2gb	4gb	8gb	400
Base unit	£34.00	£54.00	£73.00	£67.00
Case	£3.35	£3.35	£3.35	
Fan	£3.88	£3.88	£3.88	
HDMI cable	£2.75	£2.75	£2.75	£5.75
Keyboard and Mouse	£4.97	£4.97	£4.97	
Mouse				£3.50
SD card (64g)	£15.00	£15.00	£15.00	£15.00
Power supply	£15.00	£15.00	£15.00	£15.00
<b>Total</b>	<b>£78.95</b>	<b>£98.95</b>	<b>£117.95</b>	<b>£106.25</b>

Energy Requirement

	Cost	Quantity	Watts	Hrs	WattHrs	
Pi			11	6	8	528
Lage screen TV	£180.00	1	1	36	8	288
Monitor	£120.00	10	10	14	8	1120
Router	£60.00	1	1	3	24	72
						0
Lights			4	10	30	1200
<b>Total power requirement during day</b>						<b>3208</b>

Power Production

Solar Panels	Power (Watts)	Hrs Bright Sun	Quantity	WattHrs	
	350	8	4		<b>11200</b>

Power Storage

Batteries	Ah	V	Quantity	WattsHrs	
Only two included for 50% tolerance	220	12	2		<b>5280</b>
Enough for the Router Pi and Lighting overnight if needed -					

Out of hours usage (To be provided by the batteries)

Device	Hrs	Watts	WattHrs	
Pi Server	16	16	3	48
Router	16	16	10	160
Lighting	16	16	10	160
TV	8	8	36	288

Total power overnight	<b>656</b>
Total power daytime	<b>3208</b>
Total power requirement	<b>3864</b>
Number of days available without sun	1.37
After this time there will be no power	