



GENERAL ENGINEERING

Team Sexy

NAME

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TEAM MEMBER(S)

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LAB NUMBER, TITLE & DATE

Lab 7: Renewable Energy, 27 July, 2018

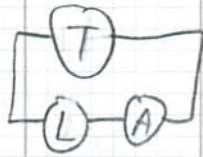
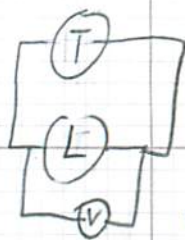
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EACH BOX = 1/8"



Turbine

$$CR = \frac{\text{distance}}{1 + \text{time}} \times \frac{100}{\text{cost}} + \text{distance}$$

$$P = 0.03 \text{ W}$$

V: 7.00

$$0.75 \text{ V}, 40 \text{ mA}$$

$$P = I^2 R$$

A: 22 = 0.022 A

$$P = 0.154 \text{ W}$$

Solar panel:

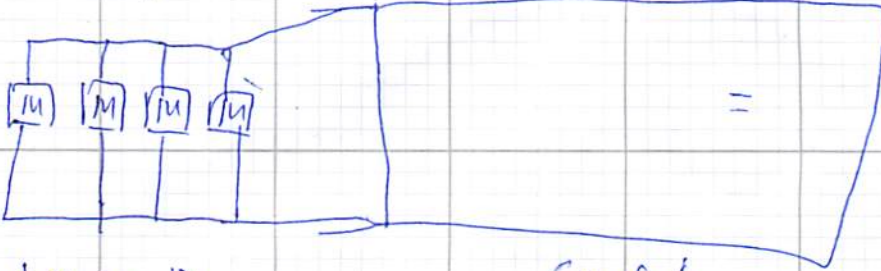
$$V = 1.97 \text{ V} \quad P = 0.009062 \text{ W}$$

$$A = 4.6$$

Hydrogen:

Motor bank

Capacitor bank



Lowers R,
equalises power draw

Cost:

x4 capacitors (\$12)

~~x4 wheels~~

x3 alligator clips (\$1.50)

x25t (\$0.20)

x1 wind turbine (\$5.00)

total \$18.70