2	Hw Z
1.	L=6; 1c=1.8
	a. C = U [0,568 + 0.433]
	U = (0.568 + 0.413 7 1.8)
	U = 5.33 Ft/s
	b. P(6.5 60 £7.5) = e - e - 2
	$\alpha_1 = \left(\frac{\upsilon_1}{c}\right)^k = \left(\frac{6.5}{6}\right)^{1.5} \alpha_{2^2} \left(\frac{\upsilon_2}{c}\right)^{1/2} = \left(\frac{6.5}{6}\right)^{1.8}$
	a = 1.155 a = 1.494
	P (6.5 EUE 7.5) = e - e = 0.091
	0.091.365. 24 AS = 793 hrs./4
	C. P(U≥16) = e ^{-ao} · ao = (00) 1.8 = (16) 1.8 = 5.840
	P(UZ16)= 0.0029
	0.0029.365.24= 25.4 hrs/yer

 $a_1 P(1460625) = c^{\beta_1} - c^{\beta_2}$ $\beta_1 = \frac{\pi}{4} \left(\frac{\upsilon_1}{\upsilon}\right)^2 \qquad \beta_2 = \frac{1}{4} \left(\frac{\upsilon_2}{\upsilon}\right)^2$ $= \frac{17}{4} \left(\frac{14}{10} \right)^2 = 1.534 = \frac{17}{4} \left(\frac{25}{10} \right)^2 = 4.409$ P(1420625) = (- e - 0.207 0.207.365.29 = 1815.2 hrs/yr. Annual Energy pros. = 1815 (1000) = 1.82 GW. 6. Cut out speces = 25 P(25 20) = e B = 1/4 (25) = 4,908 P(25 20) = e = 64.65 hrs./yr. 3. a. P=SU= (FD) (RR)= (TD) (ZTV) (Z) b. Lo = SUP = SU TIZ DZN L. D = 6,75 m N= 60 pp Pa = 1.225 Kg/m3 h=7.5 U=101/5 Lo = (7,5 m) (1,225 kg) (10 /s) (T2) (0,752) (60 L. = 510 N

