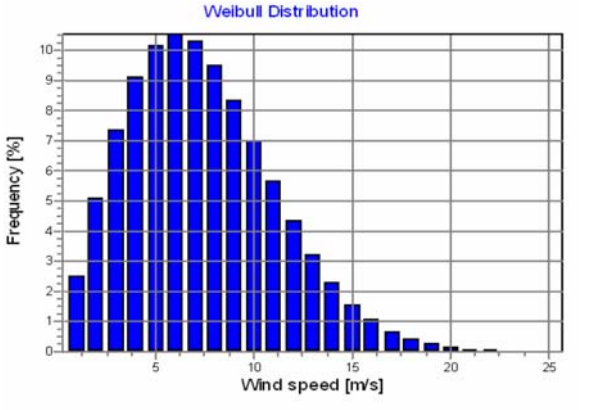
GREAT LAKES WIND ENERGY PILOT PROJECT
MODIFIED ENERGY ESTIMATE



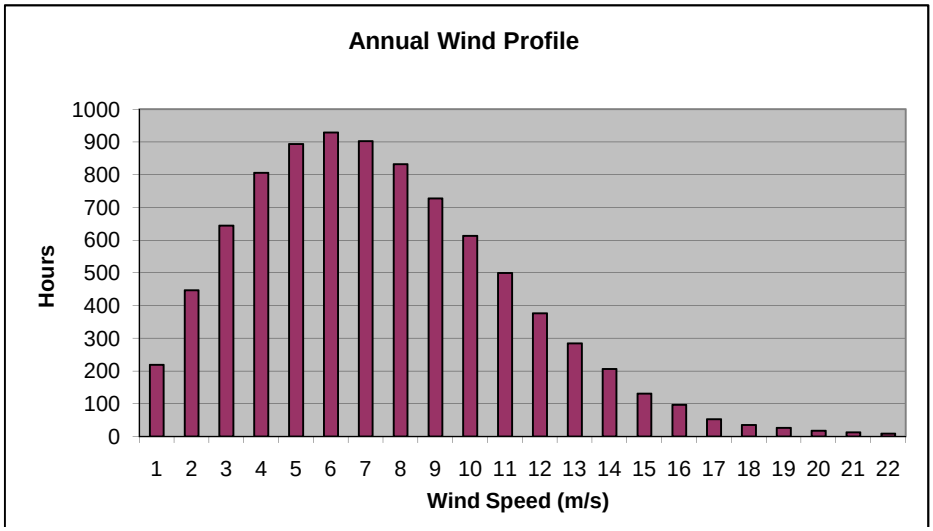
Wind profile taken from GLWEC Feasibility Study page 6-80

CONVERT FREQUENCY TO HOURS PER YEAR (1 YEAR = 8760 HOURS)

Wind Speed (m/s)	Freq (%)	Hours	Power** (KW)	Energy (KWh)	
1	2.50%	219	0	0	Power = 0 (below cut-in speed)
2	5.10%	447	0	0	Power = 0 (below cut-in speed)
3	7.35%	644	63	40,244	
4	9.20%	806	148	119,405	
5	10.20%	894	289	258,562	
6	10.60%	929	500	464,317	
7	10.30%	902	794	716,451	Power = 2.315 x V^3 (cubic curve)
8	9.50%	832	1185	986,390	
9	8.30%	727	1688	1,227,046	
10	7.00%	613	2315	1,419,558	
11	5.70%	499	3081	1,538,537	
12	4.30%	377	3550	1,337,214	Power extrapolated value to smooth curve
13	3.25%	285	3850	1,096,095	Power extrapolated value to smooth curve
14	2.35%	206	4000	823,440	
15	1.50%	131	4000	525,600	
16	1.10%	96	4000	385,440	
17	0.60%	53	4000	210,240	
18	0.40%	35	4000	140,160	Power = 4000 KW (max output)
19	0.30%	26	4000	105,120	
20	0.20%	18	4000	70,080	
21	0.15%	13	4000	52,560	
22	0.10%	9	4000	35,040	

** Power based on approximated power curve for GE 4.0-110 Wind Turbine

				Uptime	Actual Energy (KWh)	Actual Energy (MWh)	Annual Energy 5 Turbines (MWh)
TOTALS	100.00%	8760	11,551,500	83%	9,587,745	9,588	**47,939**
			11,551,500	85%	9,818,775	9,819	**49,094**
			11,551,500	90%	10,396,350	10,396	**51,982**
			11,551,500	92%	10,627,380	10,627	**53,137**



4.0-110 GE Offshore Wind Turbines (5 total turbines)
Energy output per Wind Profile Analysis - 90% uptime
6 years of paid maintenance
No inflation applied to O&M

Annual Energy Production	*input*	51,982	MWh
Value of Electricity	*input*	$50	per MWh
Annual Inflation Rate	*input*	2.5%	
1st Year Revenue		$2,599,100	
Annual Maint & Oper Cost	*input*	($2,000,000)	

Year	Inflation Factor	Revenue	Maint & Ops	Cash Flow
0				($100,000,000)
1		$2,599,100		($97,400,900)
2	1.025	$2,664,078		($94,736,823)
3	1.025	$2,730,679		($92,006,143)
4	1.025	$2,798,946		($89,207,197)
5	1.025	$2,868,920		($86,338,277)
6	1.025	$2,940,643		($83,397,633)
7	1.025	$3,014,159	($2,000,000)	($82,383,474)
8	1.025	$3,089,513	($2,000,000)	($81,293,961)
9	1.025	$3,166,751	($2,000,000)	($80,127,210)
10	1.025	$3,245,920	($2,000,000)	($78,881,290)
11	1.025	$3,327,068	($2,000,000)	($77,554,223)
12	1.025	$3,410,244	($2,000,000)	($76,143,978)
13	1.025	$3,495,501	($2,000,000)	($74,648,478)
14	1.025	$3,582,888	($2,000,000)	($73,065,590)
15	1.025	$3,672,460	($2,000,000)	($71,393,129)
16	1.025	$3,764,272	($2,000,000)	($69,628,858)
17	1.025	$3,858,379	($2,000,000)	($67,770,479)
18	1.025	$3,954,838	($2,000,000)	($65,815,641)
19	1.025	$4,053,709	($2,000,000)	($63,761,932)
20	1.025	$4,155,052	($2,000,000)	($61,606,880)
21	1.025	$4,258,928	($2,000,000)	($59,347,952)

4.0-110 GE Offshore Wind Turbines (5 total turbines)
Energy output per Wind Profile Analysis - 90% uptime
6 years of paid maintenance
Inflation applied to O&M

Annual Energy Production	*input*	51,982	MWh
Value of Electricity	*input*	$50	per MWh
Annual Inflation Rate	*input*	2.5%	
1st Year Revenue		$2,599,100	
Annual Maint & Oper Cost	*input*	($2,000,000)	

Year	Inflation Factor	Revenue	Maint & Ops	Cash Flow
0				($100,000,000)
1		$2,599,100		($97,400,900)
2	1.025	$2,664,078		($94,736,823)
3	1.025	$2,730,679		($92,006,143)
4	1.025	$2,798,946		($89,207,197)
5	1.025	$2,868,920		($86,338,277)
6	1.025	$2,940,643		($83,397,633)
7	1.025	$3,014,159	($2,000,000)	($82,383,474)
8	1.025	$3,089,513	($2,050,000)	($81,343,961)
9	1.025	$3,166,751	($2,101,250)	($80,278,460)
10	1.025	$3,245,920	($2,153,781)	($79,186,322)
11	1.025	$3,327,068	($2,207,626)	($78,066,880)
12	1.025	$3,410,244	($2,262,816)	($76,919,452)
13	1.025	$3,495,501	($2,319,387)	($75,743,338)
14	1.025	$3,582,888	($2,377,372)	($74,537,821)
15	1.025	$3,672,460	($2,436,806)	($73,302,167)
16	1.025	$3,764,272	($2,497,726)	($72,035,621)
17	1.025	$3,858,379	($2,560,169)	($70,737,412)
18	1.025	$3,954,838	($2,624,173)	($69,406,747)
19	1.025	$4,053,709	($2,689,778)	($68,042,816)
20	1.025	$4,155,052	($2,757,022)	($66,644,786)
21	1.025	$4,258,928	($2,825,948)	($65,211,806)