Figure # 6

36 Meter System

| w/speed | rpm's | tip speed | tsr | Velocity | Cp | Area | Power | w/s distribution | 24 hour factor | 20 year proj. |
|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 25.48 | 48.41 | 8.07 | 216 | 0.450 | 1018 | 60,607 | 0.020 | 0.480 | 63,710 |
| 7 | 29.72 | 56.48 | 8.07 | 343 | 0.450 | 1018 | 96,241 | 0.032 | 0.768 | 161,870 |
| 8 | 33.97 | 64.54 | 8.07 | 512 | 0.450 | 1018 | 143,660 | 0.060 | 1.440 | 453,047 |
| 9 | 38.22 | 72.61 | 8.07 | 729 | 0.450 | 1018 | 204,547 | 0.080 | 1.920 | 860,081 |
| 10 | 42.46 | 80.68 | 8.07 | 1000 | 0.450 | 1018 | 280,586 | 0.085 | 2.040 | 1,253,547 |
| 11 | 46.71 | 88.75 | 8.07 | 1331 | 0.450 | 1018 | 373,460 | 0.100 | 2.400 | 1,962,907 |
| 12 | 46.69 | 88.71 | 7.39 | 1728 | 0.445 | 1018 | 479,466 | 0.103 | 2.460 | 2,583,074 |
| 13 | 46.71 | 88.76 | 6.83 | 2197 | 0.442 | 1018 | 605,489 | 0.094 | 2.256 | 2,991,503 |
| 14 | 46.74 | 88.81 | 6.34 | 2744 | 0.435 | 1018 | 744,264 | 0.085 | 2.040 | 3,325,076 |
| 15 | 46.74 | 88.80 | 5.92 | 3375 | 0.412 | 1018 | 867,012 | 0.075 | 1.800 | 3,417,759 |
| **Current Technology** | | | | | | | | | | **17,072,573** |
| 16 | 46.71 | 88.75 | 5.55 | 4096 | 0.400 | 1018 | 1,021,583 | 0.060 | 1.440 | 3,221,665 |
| 17 | 46.74 | 88.81 | 5.22 | 4913 | 0.380 | 1018 | 1,164,084 | 0.050 | 1.200 | 3,059,212 |
| 18 | 46.72 | 88.77 | 4.93 | 5832 | 0.370 | 1018 | 1,345,467 | 0.040 | 0.960 | 2,828,710 |
| 19 | 46.69 | 88.72 | 4.67 | 6859 | 0.340 | 1018 | 1,454,098 | 0.032 | 0.768 | 2,445,676 |
| 20 | 46.71 | 88.75 | 4.44 | 8000 | 0.320 | 1018 | 1,596,224 | 0.020 | 0.480 | 1,677,951 |
| 21 | 46.70 | 88.74 | 4.23 | 9261 | 0.312 | 1018 | 1,801,633 | 0.018 | 0.432 | 1,704,489 |
| 22 | 46.71 | 88.75 | 4.03 | 10648 | 0.290 | 1018 | 1,925,395 | 0.010 | 0.240 | 1,011,988 |
| 23 | 46.76 | 88.84 | 3.86 | 12167 | 0.270 | 1018 | 2,048,336 | 0.010 | 0.240 | 1,076,605 |
| 24 | 46.75 | 88.83 | 3.70 | 13824 | 0.250 | 1018 | 2,154,902 | 0.009 | 0.216 | 1,019,355 |
| 25 | 46.71 | 88.75 | 3.55 | 15625 | 0.237 | 1018 | 2,308,991 | 0.005 | 0.188 | 950,658 |
| **Proposed Technology** | | | | | | | | | | **36,068,882** |