

Low-wind turbine silently powers homes and small businesses

Affordable turbine has average 3.5-year payback, outperforms traditional units of equivalent rated output

Cost-effective power generation from flat-rooftop structures

Urban Power's UT-2 turbine offers an affordable power generation solution and a low overall cost per watt of power installed.

Turbines can be painted to minimize visual impact and keep the installation site as close to the original view as possible.



Ideal for city environments

Due to its unique design, the Urban Turbine is well-suited to rooftop siting in city environments. Owners of large flat-roofed buildings can utilize unused tops of existing buildings to generate additional income. The turbines are easy to maintain and have a useful life-span of more than 40 years. All Urban Turbines carry a standard 10-year warranty.

Silent operation, stackable for increased power density

These turbines make no noise during operation and are not a danger to birds or other flying creatures. If more power is required they can be stacked to increase the density of power produced per square foot of roof or land area.

Good output at lower wind speeds

Because this turbine does not work like traditional turbines, we can utilize lower wind speeds to produce power. The vast majority of city environments fall into the category of lower wind environments.

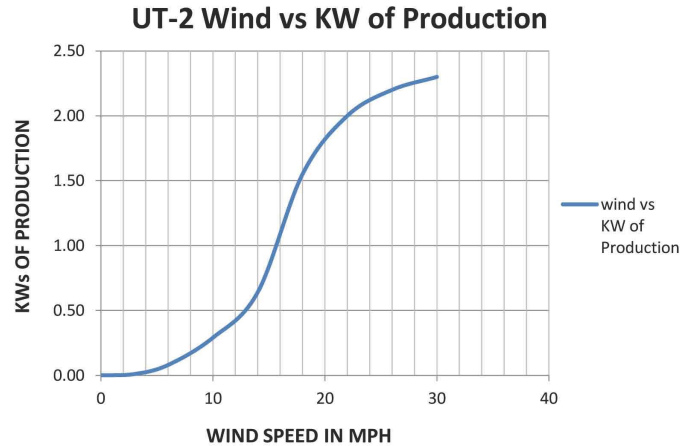
Traditional airfoil turbines require smooth air and 20-plus mph winds to generate their rated output. At wind speeds of less than 20 mph, traditional wind turbines do not work well because they do not generate enough lift to drive the generator. In low-wind city environments, our turbines will outperform all traditional turbines of equivalent rated output.

Energy savings and power generation data

UT-5 turbine offers an average 3.5 year payback with renewable energy credits

CHART 1 BELOW Savings in Typical City Environments indicates combined income from electrical savings and selling Renewable Energy Credits (RECs).

CHART 2 BELOW Comparison data highlights savings over traditional turbines, especially in low-wind conditions.



UT-2 Savings in Typical City Environments								
Electrical Cost per KWH		\$ 0.16		Renewable Energy Credits (RECs)				0.02
Average wind condition in typical lower wind speed urban area								
Condition	Wind speed mph	Average watts Production per Hr	Days of operation	Annual KW hours	Electrical Savings	Income from Selling RECs		
1	0 to 5	0	29	0	\$ -	\$ -		
2	6 to 8	117	52	146	\$ 23.36	\$ 2.92		
3	9 to 11	305	85	622	\$ 99.55	\$ 12.44		
4	12 to 14	630	74	1119	\$ 179.02	\$ 22.38		
5	15 to 17	1130	56	1519	\$ 243.00	\$ 30.37		
6	18 to 20	1600	37	1421	\$ 227.33	\$ 28.42		
7	21 to 23	2000	15	720	\$ 115.20	\$ 14.40		
8	24 to 26	2100	8	403	\$ 64.51	\$ 8.06		
9	27 to 30	2200	4	211	\$ 33.79	\$ 4.22		
			360	Total KWH	6161	\$ 985.76	\$ 123.22	
Total savings and income combined						\$	1,108.98	

Comparison between UT-2 and traditional 2KW wind turbine											
Electrical Cost per KWH		\$ 0.16									
Average wind condition in typical lower wind speed urban area											
Condition	Wind speed mph	Days of operation	Urban Power Turbines				Traditional Turbines				
			Average watts production per Hr	Annual KW hours	Savings	Average watts production per Hr	Annual KW hours	Savings			
1	0 to 5	29	0	0	\$ -	0	0	\$ -			
2	6 to 8	52	117	146	\$ 23.36	50	62	\$ 9.98			
3	9 to 11	85	305	622	\$ 99.55	200	408	\$ 65.28			
4	12 to 14	74	630	1119	\$ 179.02	500	888	\$ 142.08			
5	15 to 17	56	1130	1519	\$ 243.00	950	1277	\$ 204.29			
6	18 to 20	37	1600	1421	\$ 227.33	1400	1243	\$ 198.91			
7	21 to 23	15	2000	720	\$ 115.20	2000	720	\$ 115.20			
8	24 to 26	8	2100	403	\$ 64.51	2300	442	\$ 70.66			
9	27 to 30	4	2200	211	\$ 33.79	2400	230	\$ 36.86			
		360	Total KWH Urban Power turbine			6161	Total KWH traditional turbine			5270	
					Savings	\$ 985.76				Savings	\$ 843.26

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