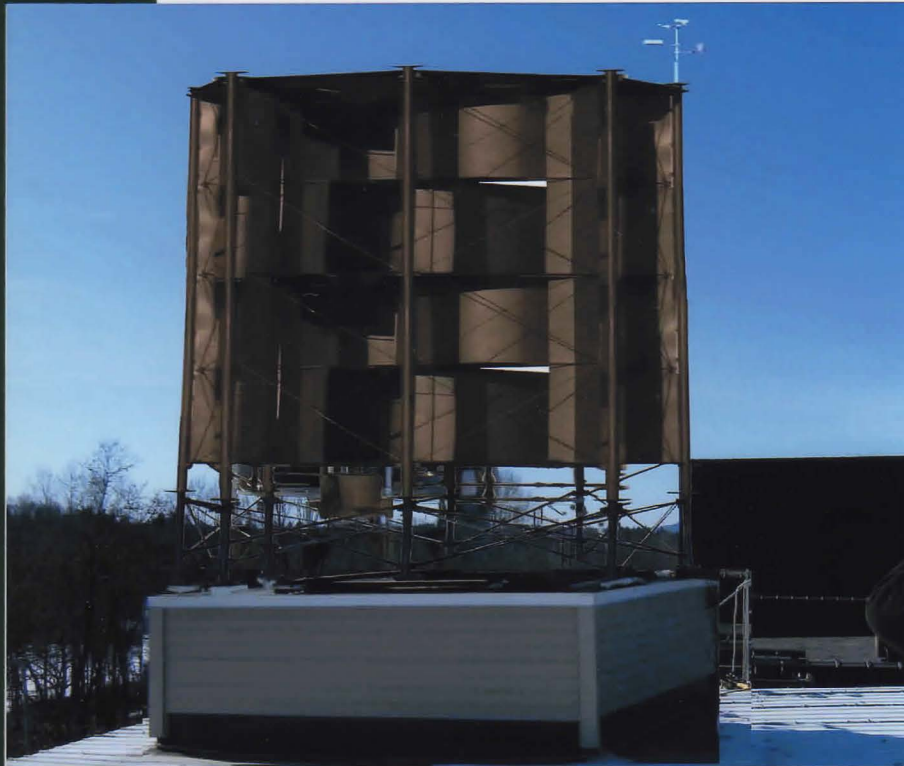


Sustainability



From small retail shops to apartment buildings, this low-wind turbine quietly meets power needs


26,000KWH turbine offers payback in under 3 years and outperforms traditional units of equivalent rated output



Cost-effective power generation from flat-rooftop structures

Urban Power's UT-5 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.

 2010 Finalist



Scientific American
World Changing Ideas
contest

“
Good compatibility with
the built environment.”

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.



Power Co-op
It's easy to form your own private power co-op! Ask us how, or visit UrbanPowerUSA.com for more info.

Energy savings and power generation data

UT-5 turbine offers rapid payback of less than 3 years with renewable energy credits

www.urbanpowerusa.com

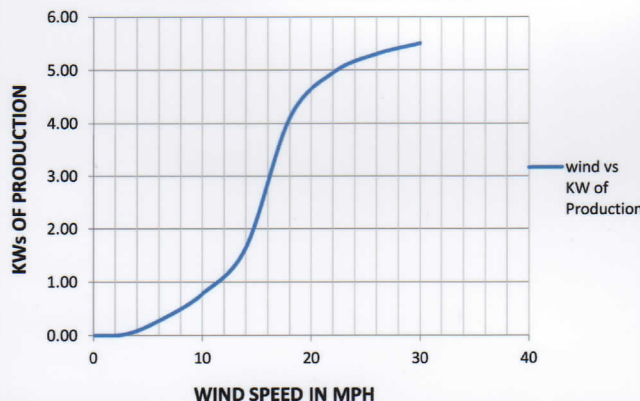
UT-5 Savings in Typical City Environments

Electrical Cost per KWH	\$	0.16	Renewable Energy Credits or 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	70	29	49	\$ 7.80	\$ 0.97	
2	6 to 8	310	52	387	\$ 61.90	\$ 7.74	
3	9 to 11	790	85	1612	\$ 257.86	\$ 32.23	
4	12 to 14	1623	74	2882	\$ 461.19	\$ 57.65	
5	15 to 17	2895	56	3891	\$ 622.54	\$ 77.82	
6	18 to 20	4400	37	3907	\$ 625.15	\$ 78.14	
7	21 to 23	4900	15	1764	\$ 282.24	\$ 35.28	
8	24 to 26	5200	8	998	\$ 159.74	\$ 19.97	
9	27 to 30	5400	4	518	\$ 82.94	\$ 10.37	
			360	Total KWH	16009	\$ 2,561.36	\$ 320.17
						Total savings and income combined	\$ 2,881.54

Comparison between UT-5 vs a traditional 5KW 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 Turbine		
			Average watts production per Hr	Annual KW hours	Savings	Average watts production per Hr	Annual KW hours	Savings
1	0 to 5	29	70	49	\$ 7.80	0	0	\$ -
2	6 to 8	52	310	387	\$ 61.90	175	218	\$ 34.94
3	9 to 11	85	790	1612	\$ 257.86	600	1224	\$ 195.84
4	12 to 14	74	1623	2882	\$ 461.19	1300	2309	\$ 369.41
5	15 to 17	56	2895	3891	\$ 622.54	2100	2822	\$ 451.58
6	18 to 20	37	4400	3907	\$ 625.15	3100	2753	\$ 440.45
7	21 to 23	15	4900	1764	\$ 282.24	4700	1692	\$ 270.72
8	24 to 26	8	5200	998	\$ 159.74	5000	960	\$ 153.60
9	27 to 30	4	5400	518	\$ 82.94	5100	490	\$ 78.34
			360	Total KWH Urban Power turbine	16009	Total KWH traditional turbine	12468	
					Savings	\$ 2,561.36	Savings	\$ 1,994.88

UT-5 Wind vs KW of Production



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affordable renewable energy

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