

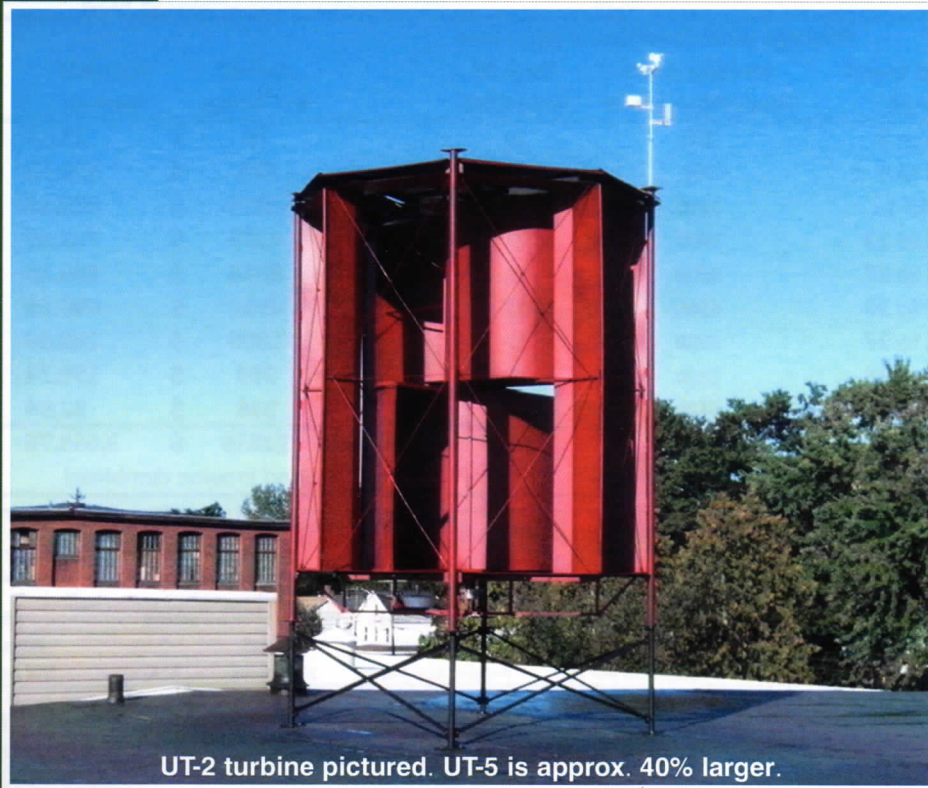
Sustainability Summit

September 2011



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



UT-2 turbine pictured. UT-5 is approx. 40% larger.

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.

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

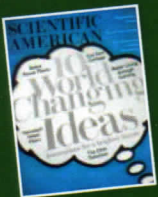
These turbines make no noise during operation and are not a danger to birds or other flying creatures. If more power is required they can be stacked to increase the density of power produced per square foot of roof or land area.

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.

2010 Finalist



Scientific American
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contest

“
Good compatibility with
the built environment.”



Urban Power USA
affordable renewable energy

180 Pleasant Street
Easthampton, MA 01027

www.urbanpowerusa.com

413-348-8906

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

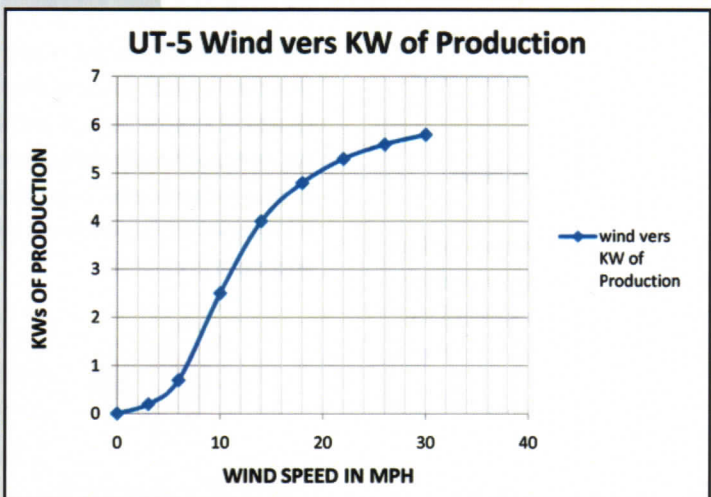
Energy savings and power generation data

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

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UT-5 Savings in Typical City Environments							
Electrical Cost per KWH			\$ 0.16	Renewable Energy Credits or RECs		0.16	
Average wind condition in poor 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	100	29	70	\$ 11.14	\$ 11.14	
2	6 to 8	700	52	874	\$ 139.78	\$ 139.78	
3	9 to 11	1900	85	3876	\$ 620.16	\$ 620.16	
4	12 to 14	2800	74	4973	\$ 795.65	\$ 795.65	
5	15 to 17	4000	56	5376	\$ 860.16	\$ 860.16	
6	18 to 20	4900	37	4351	\$ 696.19	\$ 696.19	
7	21 to 23	5000	15	1800	\$ 288.00	\$ 288.00	
8	24 to 26	5200	8	998	\$ 159.74	\$ 159.74	
9	27 to 30	5400	4	518	\$ 82.94	\$ 82.94	
			360	Total KWH	22836	\$ 3,653.76	\$ 3,653.76
					Total savings and income combined		\$ 7,307.52

Comparison between UT-5 vs. traditional 5KW wind turbine										
Electrical Cost per KWH			\$ 0.16							
Average wind condition in poor area										
Condition	Wind speed mph	Days of operation	Average watts		Urban Turbine		Air foil Turbine			
			Urban Power Turbines Production per Hr	Air foil Turbines Production per Hr	Annual KW hours	Savings	Annual KW hours	Savings		
1	0 to 5	29	100	0	70	\$ 11.14	0	\$ -		
2	6 to 8	52	700	175	874	\$ 139.78	218	\$ 34.94		
3	9 to 11	85	1900	600	3876	\$ 620.16	1224	\$ 195.84		
4	12 to 14	74	2800	1300	4973	\$ 795.65	2309	\$ 369.41		
5	15 to 17	56	4000	2100	5376	\$ 860.16	2822	\$ 451.58		
6	18 to 20	37	4900	3100	4351	\$ 696.19	2753	\$ 440.45		
7	21 to 23	15	5000	4700	1800	\$ 288.00	1692	\$ 270.72		
8	24 to 26	8	5200	5000	998	\$ 159.74	960	\$ 153.60		
9	27 to 30	4	5400	5100	518	\$ 82.94	490	\$ 78.34		
			360		Total KWH UT	22836	\$ 3,653.76	Total KWH air foil	12468	\$ 1,994.88



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