# EXHIBIT 11



### High-Profile: Annual Green Facilities Developments



## Make that Wasted Roof Space a Profit Center

Easthampton is an unlikely place for a wind turbine with relatively low wind speeds 74% of the wind speeds range between 5 and 16 miles per hour (mph) in Easthampton, which is pretty typical for most urban environments.

Traditional wind turbines require smooth air with little or no turbulence with winds at approximately 20 mph or more to operate at optimal efficiency Urban Power USA has developed vertical axis wind turbines that maximize electrical output in the 6 – 16 mph range. Scientific American awarded Urban Power USA as a 2010 finalist in its "World Changing Ideas" contest for its impovative design. Urban Power USA manufactures 1.8 KW, 5KW, 10 KW

**Estimated kWh Produced** 

**Estimated Installed Cost** 

**Estimated Net Cost** 

(30%)

**Estimated State Incentives** 

**Estimated Annual Energy** 

Produced @ \$0.16/kWh:

Renewable Energy Credits

Estimated 10 Year Cash Flow

[RECS] @ \$0.02/kWh/yr

Payback (yrs)

**Estimated Federal Incentives** 

TYPICAL 5KW WIND ENERGY PROJECT

and 25 KW Wind Turbines in Massachu-

180 Pleasant St. in Easthampton is a three-story mill building built around 1900 that houses small manufacturing companies and offices on a lot of about 2.9 acres. The turbine has been operating for the last year after two years of data collection, and the electrical production is impressive.

The 1.8 KW Urban Power Wind Turbine produces approximately 7,877 kWh of electricity per year or reduced the power requirements for this industrial building by approximately \$1,260 annually.

The process of getting approval for the wind turbine from the town of Easthampton was complicated by the town's lack of experience with this technology. It

\$28,500.00

\$1,000,00

\$8,550.00

\$18,950.00

\$3,653.76

\$456

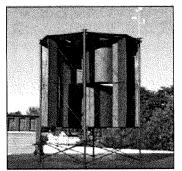
2.51

39.8%

\$56,408.80

required structural supports under the roof to be installed which added significant costs. This would not be required in most other applications as roof mounted structural supports can be installed on top of supporting columns to reduce installation costs.

The owner of the 180 Pleasant Street building has been so invigorated by the Urban Power wind turbines he is planning to add more wind turbines by installing a 5KW and a 10 KW wind turbine. He has also installed a elevator to the roof and plans



The 18 KW Urban Power wind turbine takes up a small amount of space with its 10-foot diameter footprint and stands about 15 feet high with stand.

to open a restaurant with a view of spinning Urban Power Vertical Axis Wind Turbines on one side and a view of Mount Tom and the Connecticut River on the other.

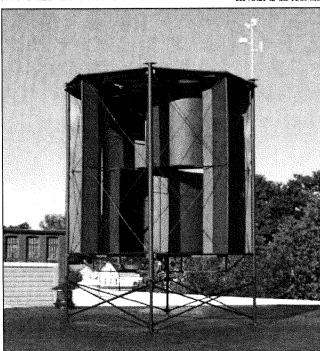
The 5 KW Urban Power wind turbine is only slightly larger at 16 feet in diameter and about 22 feet high with stand. The 5 KW wind turbine produces approximately 22.836 kWhs or \$3.653 in electricity per year. That is 2.9 times more electricity than the 1.8 KW systems. The 5 KW wind turbine as a much larger surface area and can capture more wind to focus the power of the wind through the turbine.

The advantage of the vertical axis wind turbine is that it is not affected by turbulent wind flow so it doesn't have to be mounted high above a building. The design of the Urban Power vertical axis wind turbine also makes it look like HVAC equipment on the roof so there is less resistance from neighbors in the permitting process. In addition to free electricity from prevailing winds, the Urban Power Wind Turbines are bird and bat friendly since they rotate at much lower speeds than traditional horizontal axis wind turbines, so birds and bats can "see "the motion and avoid unfortunate accidents."

The economics of the Urban Power USA vertical axis wind turbines is very attractive. There is currently a 30% federal tax credit resulting in a significant cost reduction. In addition there are state incentives. Massachusetts provides a \$1,000 incentive and other states also have even more generous incentives. There is also a Renewable Energy Credit (REC) that ranges from around \$0.01 - \$0.035 per megawatt produced and documented with a REC certificate. Finally there are grants from the state.

These system can be scaled up to larger 10, 25, 50 KW or 100 KW systems resulting in additional electrical production by adding more units or stacking them on top of each other. These more efficient wind turbines operating at the wind speeds that are common in New England urban areas. They are a great alternative to solar PV systems since they take up much less space. They also have an advantage over

Continued on next page



## Make Your Roof a Profit Center with Urban Power Vertical Axis Wind Turbines

For a site evaluation and pricing

Contact:

Conservation Solutions Corporation

978-266-1900

dcook@conservationsolutions.com

# EXHIBIT 12

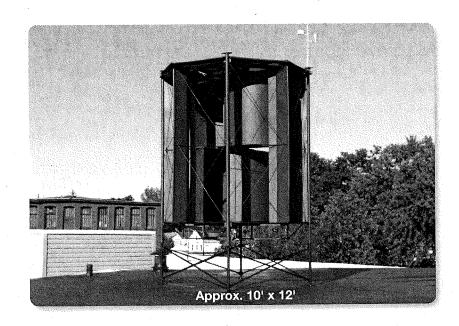
## Low-wind turbine silently powers homes and small businesses

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.

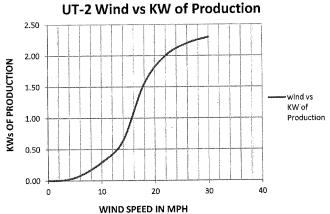
Traditional airfoil turbines require smooth air and 20-plus mph winds to generate their rated output. At wind speeds of less than 20 mph, traditional wind turbines do not work well because they do not generate enough lift to drive the generator. In low-wind city environments, our turbines will outperform 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 Saving	gs in Typic	al City Envi	ronmer	nts			
Electric	Electrical Cost per KWH \$			Renewable Ene		0.0			
/ama-si	Average wind condition in typical lower wind speed urban area								
Wind speed		Average watts	Days of				Electrical		Income from
Condition	mph	Production per Hr	operation		KW hours	3	Savings <sup>-</sup>		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
9	27 10 00	2200	360	Total KWH	6161	\$	985.76	\$	123.22
Total savings and income combined \$							\$	1,108.98	

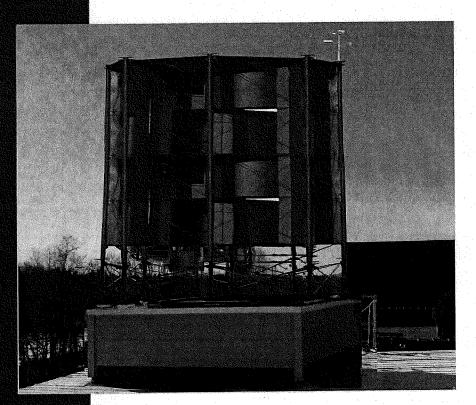
Electrical (	Cost per KWH		\$ 0.16								
			Average wind condition		win	d speed urb		I Thursday and			
			Urban Power Turbines				Traditional Turbines				
	Wind speed	Days of	Average watts	Annual			Average watts	Annual			
Condition	mph	operation	production per Hr	KW hours	,	Savings	production per Hr	KW hours	S	Savings	
1	0 to 5	29	0	0	\$	-	0	0	\$	-	
2	6 to 8	52	117	1,46	\$	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	Ś	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	
<del>-</del> 3	360 Total KWH Urban Power turbine 6161						Total KWH	traditional turbin	е	527	
	Savings \$ 985.76					Savings	\$	843.26			

### **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

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### 



Scientific American World Changing Ideas contest

Good compatibility with the built environment.

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Traditional airfoll turbines require smooth air and 20plus mph winds to generate their rated output. At wind speeds of less the 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.



GO'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

Electrical	Cost per KWH	\$ 0.16		Renewable Energy Credits or RECs						
Condition	Wind speed mph	Average wind condit Average watts Production per Hr	Days of		speed urb: Annual KW hours	- 1	ea Electrical Savings		ome from lling RECs	
	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	
	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	
<b>2</b>	27 10 30		360	Total KWH	16009	\$	2,561.36	\$	320.17	
	Total savings and income combined								2,881.54	

Elastelesi (	ost per KWH	pui 13	on between UT- s 0.16		18.503	Landanian in	ar and the				
Elecuicai y	ost per iterit		Average wind condition	in typical lowe	r win	d speed urb	an area				
		Urban Power Turbines					Traditional Turbine				
Condition	Wind speed mph	Days of operation	Average watts production per Hr	Annual KW hours	Savings		Average watts production per Hr	Annual r KW hours		avings	
	0 to 5	29	70	49	\$	7.80	0	0	\$	uammana ministria	
2	6 to 8	52	310	387	\$	61.90	175	218	\$	34.9	
	9 to 11	85	790	1612	\$	257.86	600	1224	\$		
Ā	12 to 14	74	1623	2882	\$	461.19	1300	2309	\$	369.4	
5	15 to 17	56	2895	3891	\$	622.54	2100	2822	\$	451.5	
6	18 to 20	37	4400	3907	\$	625.15	3100	2753	\$	440.4	
, <b>,</b>	21 to 23	15	4900	1764	\$	282.24	4700	1692	\$	270.7	
8	24 to 26	8	5200	998	S	159.74	5000	960	\$	153.6	
9	27 to 30	ž	5400	518	Š	82.94	5100	490	\$	78.3	
	£7 10 30	360		Total KWH Urban Power turbine 1600			Total KWH trad	litional turbine		124	
langua an a		en Village Verrege	alertin en Establisco et Mari	Savings	\$	2,561.36	er veget en	Savings	<b>\$</b> .	1,994	

