

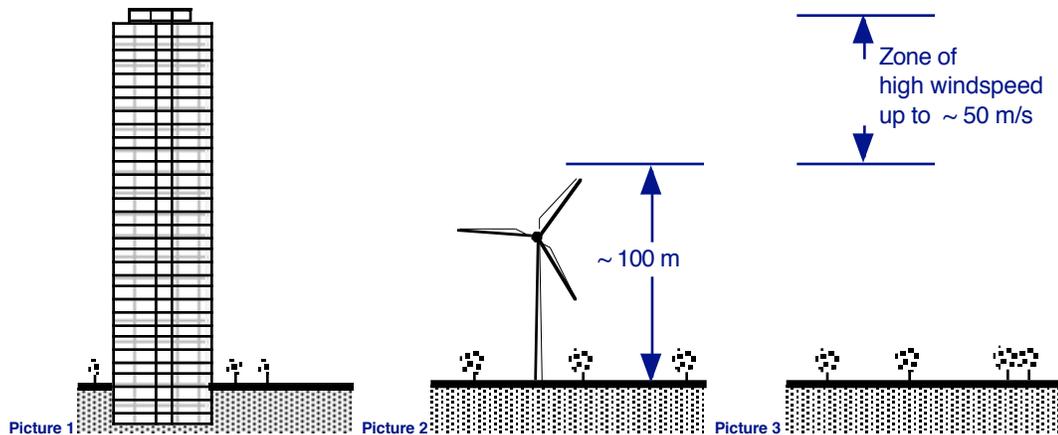
ECO-ENERGY-BOX Wind Turbines on Skyscrapers

Executive Summary

The ECO-ENERGY-BOX is a new generation of wind power plants. The great advantage over conventional wind power plants is the implementation in urban structures without the ensuing negative effects. Unlike conventional wind power technologies, the ECO-ENERGY-BOX functions according to the principle of air streaming and was developed especially for implementation in the upper stories of buildings or on rooftops. Production costs are minimal and the energy efficiency is high. New York City with its skyscrapers offers an ideal field of application; the ECO-ENERGY-BOX allows for significant architectural application in existing objects, as well as in new objects to be constructed. The technology of the ECO-ENERGY-BOX is trend setting for the modern energy policy that desires to make a sustainable contribution to the protection of the environment and at the same time have an effect on vital climate strategy.

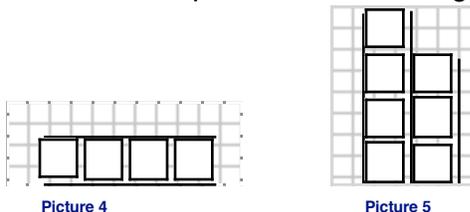
Possibilities of Application

The new wind power station is similar to a box or a device, or to a structure that does not allow detection of the motional effects of the rotors. Thus there is no psychological and physiological contamination of the environment.



The ECO-ENERGY-BOX functions according to the principle of air streaming. The boxes can be installed in upper stories of building side by side or on top of each other. Through a combination of the basic modules (i.e. 6.0 m x 3.0 m) high outputs can be reached.

The assembly of the ECO-ENERGY-BOXES takes place in or on buildings, particularly high-rises.



The high wind speeds at the top of high-rise buildings are used optimally by the ECO-ENERGY-BOX. High-rise buildings on expensive properties in the built-up areas of the city are associated with locations for the generation of alternative, ecological energy sources, and the energy can be directed into the supply system of the building or the city.

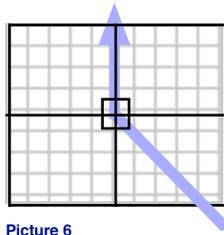
The ECO-ENERGY-BOX can be implemented excellently in existing buildings and incorporated immediately into the design of new buildings.

Thus the ecological energy production and the energy consumption of a city are integrated into the structural objects.

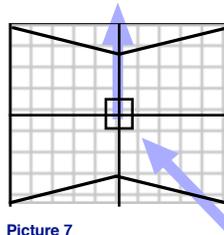
A. Application within buildings:

Fixed configuration

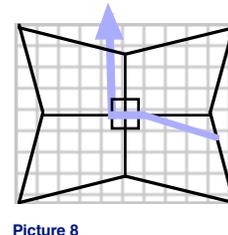
The power station is installed as a stationary object and is supplied with airflow through moveable vertical or horizontal air stream channels that can be directed from the façade.



Picture 6



Picture 7

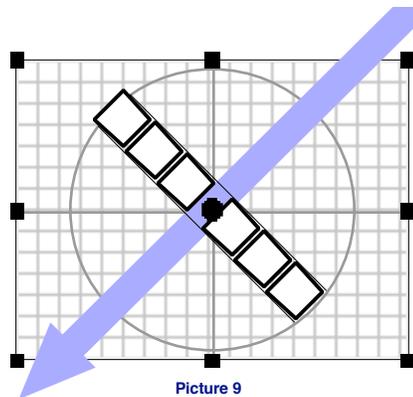


Picture 8

Moveable configuration

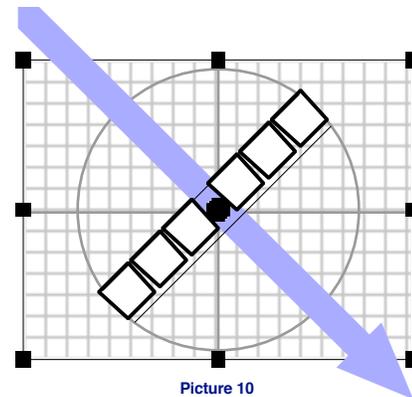
The single box or battery system is mounted on sliding carriages and can be directed toward the wind by means of aligning guides and rotation.

The façade is especially structured with vertical pilaster strips and airflow channels and with horizontal story-high guide grooves and various forms of the ground plan. These elements conduct the air congestion through the energy box, and thus the streaming of air through the structure, which allows for significantly bolder architectural statements.

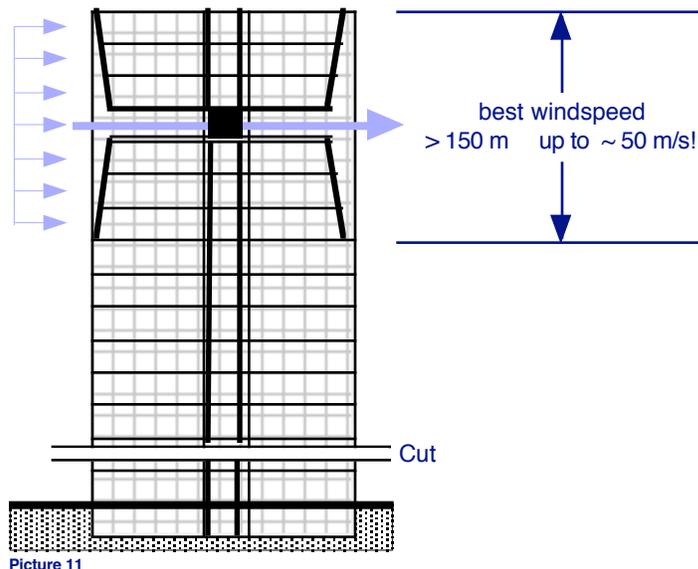


Picture 9

check rail ring
on top
and bottom



Picture 10

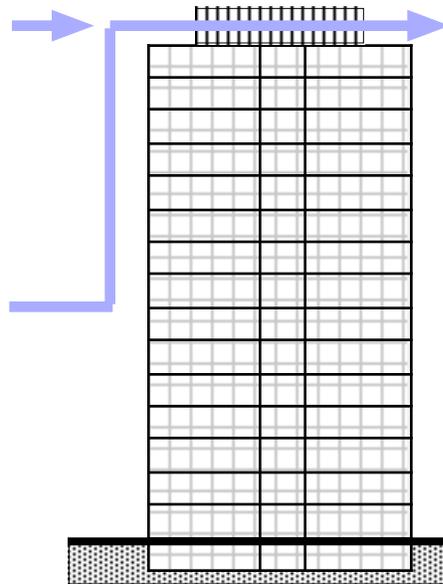


Picture 11

The area of the skyscraper exposed to the wind is enormous. Through the wind channel system the oncoming wind is compressed, guided through the building and streamed through the energy box.

B. Application of the ECO-ENERGY-BOX on top of the buildings

The power plant can be configured on or in the roof area. It is mounted on a round sliding carriage that can be aligned to the direction of the wind. By means of a system to collect the ascending currents of the façade, the wind speed on the roof can be even further increased.



Picture 12

Because large cities are often located on the shores of oceans and seas, windy spells occurring on islands and coastal regions are great. The accumulated wind is directed into the energy box with little energy loss, where it flows through the rotors with great efficiency. The channel system is an integral part of the building's house automation.

Thus the generation of energy in the field of architecture and the dimensioned building is directly compatible to the eye as well as eco-friendly for urban function as a result of low emission levels (noise – hydraulic transmissions and new generators).

The ECO-ENERGY-BOX introduces an important new stage in the generation of alternative energy through wind power, due to its possibilities of integration into buildings and construction systems.

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**Concerning your request for ideas about Ecological Energy Production in New York:
Wind Turbines on Skyscrapers**

Honorable Mayor Michael R. Bloomberg
City Hall
New York, NY 10007, USA

Honorable Mayor Bloomberg,

I am writing in reference to your interest in the use of ecological and renewable energies, particularly for the City of New York. You have called for the submission of ideas by September 19, 2008. With the ECO-ENERGY-BOX I would like to present to you a new generation of wind power stations that have been especially developed for implementation on high-rise buildings.

The ECO-ENERGY-BOX was developed over the past few years by a team of German engineers and is patent-protected. Unlike conventional wind turbines, the ECO-ENERGY-BOX functions according to the principle of air streaming. Wind turbines with rotary blades that revolve in the open air, producing the notorious negative effects on the environment, are a thing of the past. The ECO-ENERGY-BOX clears the way for the direct implementation of wind power stations in cities such as New York.

Head of the engineering team is Architect Dipl. Ing. Dieter Urbach. The motivation for this development is his experience of 45 years as an architect and urban planner. The goal was to make use of renewable energy sources in urban structures in such a way as to produce the energy right there where the need for energy is the greatest. And at the same time, the applied technology should not have a negative effect on the architecture of the building, but rather should give it significant positive support. With the ECO-ENERGY-BOX this goal has been outstandingly accomplished.

The ECO-ENERGY-BOXES can be manufactured in serial production and then put into operation in **existing buildings** or on their rooftops or platforms. In **new buildings** the upper stories can be designed at once for the wind power generators. In both cases this concept demonstrates an effective use for the upper stories of high-rises with a possible wind speed of up to 50 m/s. At the same time this allows for the predominance of new creative architectural elements desired by architects, urban planners, business representatives and politicians.

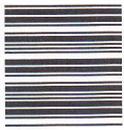
On the basis of your current "idea generation" I would like to introduce the possibility of the ECO-ENERGY-BOX. You can find more details about the technology and usage of the ECO-ENERGY-BOX in the description that is enclosed in this letter. For better visualization I have also included a number of photos and illustrations.

I would be pleased to hear from you soon and hope to support your desire to make New York more environmentally compatible by the year 2030. The ECO-ENERGY-BOX can play a decisive role in reaching that goal.

Sincerely,

Friedemann Halbrock
Project Organisation

Dipl. Ing. Dieter Urbach
Developer, Architect and Urban Planner



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Umsatzsteueridentifikationsnr: DE 1116 07161
 Steuernummer: 2600721901753

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Rechnungs Nr: 530956625
Datum: 18.09.2008
Kunden Nr: 2223-9828-2

(Bei Rückfragen/Zahlung unbedingt angeben)

Umsatzsteueridentifikationsnr:

FRACHTRECHNUNG

Versanddaten	Absender	Empfänger	Service	Pack- stücke	Gewicht	Betrag
A 829-6569-38384 QWC - FID 16 SEP 2008 G0542	HALBROCK, FRIEDEMANN BIRKBUSCHGARTEN 7 DE - 12167 BERLIN Ref. Nummer:	MAYOR'S OFFICE MAYOR M.R. BLOOMBERG CITY HALL NEW YORK NY 10007 US Sendungsdaten wurden ueberprueft/ korrigiert. Zugestellt: 17 SEP 2008 09:48:00 Unterschrift: R.SCHNEZEL	Treibstoffzuschlag FedEx Envelope	1 Pcs	0,3 kg	EUR 9,56 EUR 47,80
					Nettobetrag	EUR 57,36

UST frei gemäss Artikel 15.13 der 6. EU Richtlinie

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MWST-Satz	Total	Rabatt	Nettobetrag	MWST	Fälliger Betrag
19% MWST	0,00	0,00	0,00	0,00	0,00
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