



- Item:** Response to Arabian Business Article “Power Squandered by Protection Policies” Sat 13th September 2008
- Spokesperson:** Ole Sangill, Managing Partner, Norwin
- Description:** A discussion between Jamie Stewarton and Ole Sangill regarding the technical and political challenges for introducing wind turbines as a renewable source in the Gulf in general has been taken out of context and made to represent BWTC directly. BWTC and Norwin feel they have been misrepresented, and wish to issue the following statement:

Manama, 16th September 2008: It is correct that BWTC feels an important issue to get in place is a political decision to allow power from turbines in wind parks into national grids - this is a problem in the whole region and well known in the wind industry, not in the Bahrain World Trade Center alone. The BWTC proudly projects Bahrain as a country that is looking progressively towards the future energy needs for the region and the rest of the world, and is the first of its kind in the world.

We stress that because the integration of wind turbines into a commercial building has never been executed before on a global scale, it is natural that the testing should be properly completed before supply for the turbines is connected to the national grid. Due to the novelty of the project it is a well considered precaution policy of EDD to protect the grid. BWTC shall consult with the EDD further regarding the export of power when all research and testing is completed.

In addition, the power generated from the turbines is not being “squandered,” since our rigorous testing indicates that situations where the BWTC does not consume the power will only occur in exceptional circumstances, and the power lost on these occasions will be negligible with respect to the power produced by the turbines.

In the few situations where excess power is generated and not consumed by the buildings, the turbines will be turned off in a controlled manner and restarted when there is a power demand. We reiterate that this is not expected to happen often, and have previously publicly

stated that the turbines will turn approximately 50% of the time to appropriately fulfill the power demand.

We truly have pushed the boundaries of environmental architecture with this project, and it is a testament to Bahrain that private developers are investing in sustainability and pioneering design, which is certainly the future of architecture as it shapes the planet in years to come. We have also had the full support of the government, who we will be in further talks with regarding the national power supply.

Finally, returning to the discussion on technical and political challenges of introducing renewable sources like wind turbines in the Gulf region, we see the work being done in this project as pioneering steps for wind energy development in the Middle East.

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About Bahrain World Trade Center

Situated on the Manama waterfront and in the heart of the region's leading financial and business hub, the Bahrain World Trade Center (BWTC) project comprises the two 50-storey sail shaped twin office towers, the five-star Sheraton Hotel as well as MODA Mall, Bahrain's only ultra high-end shopping destination, featuring some 160 luxury retail outlets as well as a host of modern cafes and exciting fine dining eateries.

The BWTC provides leading regional and international organizations with a world-class business address. The buildings are highly advanced in design and operation and are the Kingdom's first intelligent offices, employing the latest SMART systems capable of delivering unsurpassed security and maximum competitive advantages and efficiency in office management. In addition, they are the first of their kind in the world, using wind energy to provide 11 – 15% of the electricity needs of the office towers.

Other benefits enjoyed by local and international businesses occupying space at the development is membership to the World Trade Centers Association (WTCA). Locating at the BWTC offers an exceptional opportunity for connectivity with the global business community. With more than 300 centers in 100 countries, WTCA has a membership of approximately 750,000 commercial enterprises worldwide.

About Atkins

Atkins (www.atkinsglobal.com) plans, designs and enables the delivery of complex capital programmes for clients in the public and private sectors across the globe. Atkins is the largest multidisciplinary consultancy in Europe; the largest engineering consultancy in the UK; and the world's fifth largest design firm.

Atkins current projects include:

- Major infrastructure works, including the Olympic Park for the London 2012 Olympics
- Design and programme management of the civil works for the Dubai Metro red and green lines

- High profile resort developments, such as Durrat Al Bahrain, a spectacular 20 sq km seaside city resort on the south coast of Bahrain comprising 13 man-made islands
- Award-winning architectural landmarks such as the Bahrain World Trade Center
- Ground breaking industry enterprises such as Manama's Tabreed Cooling Plant

Atkins was named among the "20 Best Big Companies to Work For 2008" by The Sunday Times; no. 1 in Building Magazine's top 250 consultants survey 2007.

About Norwin

Norwin is a wind turbine technology company with a high profile within new technology, research and development; with a strong home base in Denmark able to supply high quality products to specific markets; and with a few selected strong partners located in the global wind centers like China and India.

The company was founded in January 1992 as an engineering company by engineers from the former wind turbine company Danwin. The rights to the 225 kW turbine was taken over and the development of a larger 600 kW turbine was initiated, and completed in 1995. This turbine was as the first in the world featuring Active Stall Regulation – ASR – a system that later on was used by other major wind turbine manufactures. In the period 1992 – 1997 both turbines were manufactured in Germany on a license agreement.

Between 1996 – 2000 the 600 kW turbine was upgraded and approved for installation in Denmark and introduced in a range between 599-750 kW for this market.

From 2001 the activities on the **North American market** was accelerated for building up network activities within sale, distribution, promotion and O&M partners focusing on distributed energy and small wind farms. In 2007 the first two wind turbines have been sold to be installed in 2008.

In 2004 **Norwin** started a new line called "special projects" where the advanced knowledge and experience possessed by the company engineers was put into **building integrated wind turbines** i.e. the Bahrain World Trade Center. **Norwin** has the ambition to be a technology leader within land based turbines and special applications like building integrated wind technology.

All through 2003 to 2006 two of the most potential markets in the world – **India and China** – was under development and finally in 2007 Norwin entered into an agreement for manufacture of wind turbines in partnership with large privately owned companies in both regions.

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