

THE MAYOR'S GREEN BUILDING ADVISORY COMMITTEE PRESENTS

# GREEN BUILDING TOURS



APRIL 30, 2008



## Horizon Wind Energy



An EDP Renewables Company

### HORIZON WIND ENERGY

CORPORATE OFFICES  
HOUSTON, TEXAS  
13,000 SF

15% materials reused including existing building marble

42% water savings

69% waste diverted from landfill

## LEED® Facts

Horizon Wind Energy  
Houston, TX

LEED® for Commercial Interiors  
Certification awarded February 8, 2007

**Silver** 27\*

Sustainable Sites 5/7

Water Efficiency 2/2

Energy & Atmosphere 2/14

Materials & Resources 6/14

Indoor Environment Quality 7/15

Innovation & Design 5/5

\*Out of a possible 57 points

## PROJECT PROFILE

# HORIZON WIND ENERGY CORPORATE OFFICES

## RENEWABLE ENERGY CATCHES WIND IN TEXAS

### PROJECT BACKGROUND

Going LEED just made sense for us. We build green power every day so we should build a green office space for our employees. — Horizon Wind Energy

This project marks the first LEED Certified Commercial Interior in Houston, Texas.

### SUSTAINABLE SITES (5/7)

Locating the project in the Esperson Building, built in 1927 in downtown Houston, utilizes existing infrastructure and is close to light rail, bus service and multiple amenities. ■ Half the number of parking spaces required are provided, encouraging employees to carpool, bike or use mass transit. ■ Secure bike storage and two shower rooms in the office are utilized by employees who choose not to drive to work.

### WATER EFFICIENCY (2/2)

Water-saving fixtures including motion sensor lavatory faucets, low-flow urinals, dual flush valves on water closets, and low-flow kitchen faucets and shower heads reduce water use by 42%.

### ENERGY & ATMOSPHERE (2/14)

Efficient lighting reduces lighting power density by 31%. ■ Daylight responsive lighting controls & EnergyStar rated appliances increase energy conservation & Green-e certified Renewable Energy Credits were purchased to support wind-powered electricity production.

### MATERIALS & RESOURCES (6/14)

69% of the construction debris was diverted from the landfill. ■ A recycling program engages employees & visitors in collecting paper, glass, cardboard, plastics & metals. ■ Originally installed in 1927, the existing marble flooring was refinished and re-used. A portion of the existing marble, totaling 15% of the construction materials cost, was refurbished for new uses, including the reception desk, counter tops and wall base. ■ Salvaged and refurbished furniture equaled 74% of the total furnishings value. ■ Materials with recycled content include metal studs, gypsum panels, ceiling tiles, office partitions, millwork, carpet, lockers, seating and window shades. ■ 67% of the construction materials were manufactured or salvaged locally including gypsum panels, ceiling tiles, windows, paint, toilet accessories, millwork and furniture.

### INDOOR ENVIRONMENTAL QUALITY (7/15)

Construction was sequenced and the area was ventilated to protect workers, materials and occupants from harmful air contaminants. ■ Low-emitting paints, sealants, adhesives and Green Label Plus certified carpets were chosen to minimize occupant exposure to irritating air contaminants. ■ An open office plan, conference rooms on the perimeter and service spaces at the core allowed access to daylight and direct exterior views for 98% of the regularly occupied spaces.

### INNOVATION & DESIGN (5/5)

Saved 40% of water (exceeding Water Use Reduction) ■ Used salvaged materials for 15% of the project budget (exceeding Resource Re-Use, Building Materials) ■ Used salvaged furniture for 60% of the furniture on the project (exceeding Resource Re-Use, Furniture) ■ 67% percent of building materials were manufactured regionally (exceeding Regional Materials Credit) ■ 100% of purchased electricity is from renewable energy sources (exceeding Green Power credit).

"GOING LEED JUST MADE SENSE FOR US. WE BUILD GREEN POWER EVERY DAY SO WE SHOULD BUILD A GREEN OFFICE SPACE FOR OUR EMPLOYEES."

— HORIZON WIND ENERGY



Owner: Horizon Wind Energy  
Interior Designer: Kirksey  
Contractor: O'Donnell/Snider Construction  
LEED Consultant: Kirksey

Photography courtesy of Akeri/Zvonkovic Photography

### ABOUT LEED

The LEED® Green Building Rating System™ is the national benchmark for the design, construction and operations of high-performance green buildings. Visit the U.S. Green Building Council's web site at [www.usgbc.org](http://www.usgbc.org) to learn more about how you can make LEED work for you.

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Greater Houston Area Chapter

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AREA CHAPTER

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