

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 to learn more about how you can make LEED work for you.

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Greater Houston Area Chapter

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GREATER HOUSTON
AREA CHAPTER

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