

DPR

The Most Green for Your Green

A new means for evaluating the true cost of building green and making better informed decisions for maximum returns

What does a green building cost?

What are the economic benefits of building green?

What are the costs and benefits between the different levels of LEED® certification?

Imagine being able to answer these frequently asked questions with a higher level of certainty at a very conceptual phase of a project—even before the start of design. Think about the advantage of having real and current cost and life cycle payback data for each LEED point when making decisions early on.

DPR has long been working with owners and designers to help identify both the costs and long-term benefits of building to higher LEED standards through collaborative charettes. This process is now being enhanced with the use of DPR's greenBook, a new tool that draws from more than a decade of green work.

greenBook helps a team analyze the cost lifecycle benefit of a project for every level of LEED certification. It identifies the "break-even point" for each level based on estimated design and construction costs and anticipated operational savings. It provides the information that owners need to determine which level of certification, if any, makes the most business sense on their project. Some of the factors used in the analysis include:

- Upfront costs for LEED credits and fees
- Additional upfront costs toward LEED features
- Water and energy savings
- Maintenance and replacement costs
- Cost of money/escalation
- Utility costs (real data)
- Total years as determined by team: the lifecycle



Once project information is entered into greenBook, it can be used throughout a project to calculate and re-calculate LEED credit requirements and evaluate compliance. The greenBook scorecard allows teams to consider each available LEED credit individually to determine its value to the overall project.

What does a green building cost? What are the economic benefits of building green? What are the costs and benefits between the different levels of LEED certification? Contact DPR at greenbook@dprinc.com.



ASU College of Nursing and Health Innovation, Phase II

Three DPR Projects Featured During 2009 Greenbuild Tours in Phoenix

THE BIODESIGN INSTITUTE AT ARIZONA STATE UNIVERSITY (ASU), BUILDINGS A & B

The 347,000 sq. ft. that make up buildings A and B at the Biodesign Institute at Arizona State University provide laboratory and office space for cutting-edge life sciences research. Located on ASU's Tempe campus, the two buildings, designed by Gould Evans Associates and Lord Aeck & Sargent Architecture, are connected on all levels by a glass passageway.

Building A was completed fall 2004 and achieved LEED-NC Gold certification. Building B was completed fall 2005 and achieved LEED-NC Platinum certification (the first building in Arizona to receive the highest level of certification).

ARIZONA BIOMEDICAL COLLABORATIVE (ABC)

The four-story, 85,600-sq.-ft., cast-in-place ABC building houses bioinformatic programs for University of Arizona (UA) and ASU, and includes both computational "dry" laboratories, as well as the more traditional "wet" biological and medical spaces. The building is located south of the City of Phoenix Translational Genomics Research Institute and north of the UA College of Medicine (both built by DPR). The \$29.6 million, fast-track project, which was designed by SmithGroup, achieved LEED-NC Gold certification.

ASU COLLEGE OF NURSING AND HEALTH INNOVATION, PHASE II

Clad with 80,000 pounds of copper, ASU College of Nursing and Health Innovation provides a home to one of the largest nursing programs in the U.S. Targeting LEED-NC Silver certification, the new ground-up, multi-use, 84,000-sq.-ft., five-story facility was designed by SmithGroup to maximize outdoor elements. Public green areas, shaded gardens and balconies allow for comfortable outdoor spaces for students, staff and faculty. Unique shading devices also maximize daylight inside for office and research spaces, and provide protection from the sun.

Solar panels at City of Hope's Amini Transfusion Medicine Center

DPR green by the numbers



\$5B

DPR has more than \$5 billion worth of green work completed or in progress.



44

DPR has 44 projects that have achieved LEED certification, with at least 30 more targeting certification.



12M

DPR has more than 12 million sq. ft. of sustainable construction completed or in progress.

WE EXIST TO BUILD GREAT THINGS



One of the strengths of DPR is their understanding and management of the LEED process. Throughout the construction process, sanofi-aventis and DPR, together with the design engineer, have looked at ways to increase our commitment to LEED.

JOHN COCCO
PROJECT MANAGER, SANOFI-AVENTIS



DIGITAL REALTY TRUST

1201 Comstock Web Hosting Facility
Santa Clara, CA
LEED NC-PLATINUM (FIRST PLATINUM DATA CENTER IN CALIFORNIA)

The first LEED Platinum data center in California and only the second in the U.S., this 198 watt/sq. ft. data center was delivered one week early—completed in just 26 weeks through level 5 commissioning—with Zero Defects, a PUE measurement of 1.36 at 100% IT load and under budget.



BUTTE-GLENN COMMUNITY COLLEGE DISTRICT

Butte College Instructional Arts Building
Oroville, CA
TARGETING LEED-NC GOLD

Delivered using a Construction Management-at-Risk delivery method, the 77,000-sq.-ft., 2-story, steel-framed building will have 17.5 percent of its power supplied from the campus solar panel farm. The facility houses a “Black-box” performing arts theatre performing and fine art spaces and faculty offices.



CITY OF HOPE

Amini Transfusion Medicine Center
Duarte, CA
TARGETING LEED-NC SILVER

City of Hope asked DPR to build the new three-story blood transfusion medicine center on its Duarte campus. The facility will include transfusion services, a blood bank, a marrow and blood donor program, a stem cell laboratory, an apheresis center and administrative support.



AMERICAN INSTITUTE OF ARCHITECTS

National Headquarters
Washington, DC
TARGETING LEED-CI PLATINUM

The national AIA Headquarters building, designed by Studios Architecture, is proposed to undergo a complete renovation of all building systems to achieve the AIA challenge of carbon neutrality by the year 2030. DPR was awarded the renovation due to leadership in IPD, BIM and sustainable construction.

For more information on how DPR Construction can meet your green building needs, please contact Ted van der Linden at tedv@dprinc.com

www.dpr.com



THOMAS PROPERTIES

Four Points Centre Complex
Austin, TX
LEED-NC GOLD

Featuring two, three-story, 100,000-sq.-ft. office buildings and a parking garage, the new Four Points Centre was built using Building Information Modeling (BIM) to detail and build the cast-in-place concrete structures virtually and minimize construction waste, saving both time and dollars for the client.



AUTODESK

Customer Briefing Center and Office
San Francisco, CA
LEED-CI PLATINUM

One of more than 15 projects that DPR has built for Autodesk, the project team—incorporating BIM to identify and resolve conflicts and an integrated project delivery approach—delivered this complex 45,000-sq.-ft. office and customer briefing center project in 22 weeks.



SOUTHFACE ENERGY INSTITUTE

Eco-Office
Atlanta, GA
LEED-NC PLATINUM

The Southface Eco-Office, built from donated materials and funds, will use approximately 61,000 fewer gallons and 53 percent less energy than traditionally constructed buildings. The three-story, 10,100-sq.-ft. structure, which includes a green roof, will serve as an education center for green building professionals.



ALEXANDRIA REAL ESTATE EQUITIES

Speculative Laboratory Suites
San Diego, CA
LEED-CI GOLD

DPR completed this 22,000-sq.-ft. tenant improvement including five speculative biology laboratory spaces. Comprised of a new elevator, core and central plant utilities, conference rooms and receiving rooms, the client acknowledged DPR for achieving Zero Defects prior to substantial completion.