



BD Biosciences
Building 3
LEED-CI Gold



Building 3

This project consisted of Interior improvements including complete demolition, seismic upgrade and remodel of a of the 57,882 s.f. space. Exterior finish and site improvements were required to connect and make the building a part of the BD campus. In addition, the entire mechanical system was replaced in order to meet energy efficiency targets.

Designer: DGA



Materials

The architectural wood walls in the feature corridor are reclaimed material. In its previous life, the wood was bleacher seating.



Energy

Twenty-seven solar tracking skylights were installed throughout the space to increase the amount of natural light and minimize the need for additional light fixtures.

Daylight sensors were integrated into the lighting controls to further decrease the power required to light the space.



Energy

The project achieved Exemplary Performance on EA C1.4 (Optimizing Energy Performance on Equipment and Appliances). Over 99% of the project's appliances met Energy Star requirements.



Water

Interior water usage was reduced by 30% and exterior water use by 65%.

This was accomplished through a combination of efficiency of design and diligent fixture selection.

Scorecard

BD Biosciences Building 3 LEED-CI Gold

		Credits			
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed
Project Information Forms					
PI	f1	Minimum Program Requirements			GP/BD
PI	f2	Project Summary Details			JH/XL
PI	f3	Occupant and Usage Data			JH/XL
PI	f4	Schedule and Overview Documents			LP/XL
PI	f5	Previously LEED Certified Details			JH/XL

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
Sustainable Sites						
SS	Credit 1	Option 2 Path 7 - Landscape Water Reduction	2	2	2	BF/C&A
SS	Credit 2	Development Density & Community Connectivity	6	6	6	JA/XL, TS/XL
SS	Credit 3.1	Alternative Transportation - Public Transportation Access	6	6	6	JA/XL, TS/XL
SS	Credit 3.2	Alternative Transportation - Bicycle Storage & Changing Rooms	2	2	2	LT/DGA
SS	Credit 3.3	Alternative Transportation - Parking Availability	2	2	2	LT/DGA
		Subtotal SS	18	18	18	

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
Water Efficiency						
WE	Prereq 1	Water Use Reduction - 20%	PR	PR	PR	KDS
WE	Credit 1	Water Use Reduction - 30/35/40%	11	6	6	KDS
		Subtotal WE	11	6	6	

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
Energy & Atmosphere						
EA	Prereq 1	Fundamental Commissioning of Building Energy Systems	PR	PR	PR	CXA
EA	Prereq 2	Minimum Energy Performance	PR	PR	PR	SS/BD
EA	Prereq 3	Fundamental Refrigerant Management	PR	PR	PR	WAM
EA	Credit 1.1	Optimize Energy Performance - Lighting Power	5	1	1	AMS
EA	Credit 1.2	Optimize Energy Performance - Lighting Controls				
		- Daylight controls for daylight areas	1	1	1	AMS
		- Daylight controls for 50% of lighting load	1			
		- Occupancy sensors	1	1	1	AMS
EA	Credit 1.3	Optimize Energy Performance - HVAC	10		5	WAM
EA	Credit 1.4	Optimize Energy Performance - Equipment & Appliances	4	4	4	JH/XL
EA	Credit 2	Enhanced Commissioning	5	5	5	CXA
EA	Credit 3	Measurement & Verification	5			
EA	Credit 4	Green Power	5	5	5	DK/BD
		Subtotal EA	37	17	22	

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
Materials and Resources						
MR	Prereq 1	Storage & Collection of Recyclables	PR	PR	PR	LT/DGA
MR	Credit 1.1	Tenant Space - Long Term Commitment	1	1	1	DD/BD
MR	Credit 1.2	Building Reuse - Maintain Interior Nonstructural Components	2			
MR	Credit 2	Construction Waste Management	2	2	2	TS/XL
MR	Credit 3.1	Materials Reuse	2			
MR	Credit 3.2	Materials Reuse - Furniture & Furnishings	1			
MR	Credit 4	Recycled Content	2			DGA / XL / Subs / Vendors
MR	Credit 5	Regional Materials	2			Subs / Vendors
MR	Credit 6	Rapidly Renewable Materials	1			
MR	Credit 7	Certified Wood	1	1	1	VCO
		Subtotal MR	14	4	4	

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
Indoor Environmental Quality						
IEQ	Prereq 1	Minimum Indoor Air Quality	PR	PR	PR	WAM

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
IEQ	Prereq 2	Environmental Tobacco Smoke Control	PR	PR	PR	DD/BD
IEQ	Credit 1	Outdoor Air Delivery Monitoring	1	1	1	ZR/WAM
IEQ	Credit 2	Increased Ventilation	1	1	1	WAM
IEQ	Credit 3.1	Construction Indoor Air Quality Management - During Construction	1	1	1	JH/XL
IEQ	Credit 3.2	Construction Indoor Air Quality Management - Before Occupancy	1	1	1	LP/XL
IEQ	Credit 4.1	Low Emitting Materials - Adhesives and Sealants	1	1	1	XL / Subs
IEQ	Credit 4.2	Low Emitting Materials - Paints and Coatings	1	1	1	XL / Subs
IEQ	Credit 4.3	Low Emitting Materials - Flooring Systems	1	1	1	XL / Subs
IEQ	Credit 4.4	Low Emitting Materials - Composite Wood and Agrifiber Products	1			
IEQ	Credit 4.5	Low Emitting Materials - Systems Furniture and Seating	1	1	1	XL / Subs
IEQ	Credit 5	Indoor Chemical and Pollutant Source Control	1	1	1	ZR/WAM, JH/XL
IEQ	Credit 6.1	Controllability of Systems - Lighting	1	1	1	BH/AMS, BS/BD
IEQ	Credit 6.2	Controllability of Systems - Thermal Comfort	1			
IEQ	Credit 7.1	Thermal Comfort - Design	1	1	1	WAM
IEQ	Credit 7.2	Thermal Comfort - Verification	1			
IEQ	Credit 8.1	Daylight and Views - Daylight	2			
IEQ	Credit 8.2	Daylight and Views - Views for Seated Spaces	1			LT/DGA
		Subtotal IEQ	17	11	11	

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
Innovation in Design						
ID	Credit 1.1	Educational Display	1	1	1	LT/DGA
ID	Credit 1.2	Ergonomics Program	1	1	1	Stacy/BD, DD/BD
ID	Credit 1.3	Green Housekeeping	1		1	DK/BD
ID	Credit 1.4	Exemplary Performance for EAc1.4 (97%)	1	1	1	SS/BD
ID	Credit 1.5	Exemplary Performance for EAc4	1	1	1	DK/BD, PM/BD
ID	Credit 2	Pilot Credit 8: Demand Response	1	1	1	JH/XL, DK/BD
ID	Credit 2	LEED Accredited Professional	6	6	6	TS/XL
		Subtotal ID	6	6	6	

		Credits				
Category	Credit Name	Available	Awarded	Targeted	Action / Info Needed	
Regional Priority						
RP	Credit 1	Regional Priority Credits (Four Point Max)	4			
		SS3.1		1	1	TS/XL, JA/XL
		WE C1 (40%)		1	1	
		MR C7		1	1	
		MR C2 (75%)		1	1	TS/XL
		EA C1.3		1	1	
		Subtotal RP	4	3	4	

Totals Available: 107, Awarded: 64, Targeted: 71

Certified	40 to 49
Silver	50 to 59
Gold	60 to 79
Platinum	80 to 110