GAIA

THE PORT OF LONG BEACH

PIER G : OPERATIONS

LONG BEACH, CA

LEED-NC 2.2 FACTS*

LEED GOLD TARGETING	**42** /69
Sustainable Sites :	**5** / 14
Water Efficiency :	**4** / 5
Energy and Atmosphere :	**8** / 17
Materials and Resources :	**7** / 13
Indoor Environmental Quality :	**13** / 15
Innovation and Design :	**5** / 5

19,200 sq ft

Construction : Commercial | **Type** : Office

PROJECT TEAM

Owner : Port of Long Beach
Lead Architect : Robert Stewart Architects
Architect of Record : Caldwell Architects
General Contractor : FTR International
Mechanical/Plumbing Engineer : Maroko & Shwe
Electrical Engineer : MDC Engineers
Landscape Architect : Melendrez
LEED Consultant : Gaia

35% reduction in energy use due to efficient lighting & HVAC equipment

45% less potable water used annually through the use of high efficiency plumbing fixtures

97% of construction waste was diverted from landfills

LEED ACCOMPLISHMENTS

Sustainable Sites

- Preferred parking for low-emitting and fuel-efficient vehicles
- Stormwater runoff is treated with filtration devices to reduce environmental impact on waterways
- High-albedo roof materials reduce building heat absorption to minimize impact on microclimate and human and wildlife habitat

Water Efficiency

- High efficiency water closets, lavatory facilities, and waterless urinals were installed to reduce water use for the building by 40%

Energy and Atmosphere

- Efficient lighting & HVAC design reduces energy consumption by 35%
- Enhanced commissioning verifies optimal performance of building systems*
- A Measurement & Verification Plan has been developed for ongoing accountability of building energy consumption over time*

Materials and Resources

- Comprehensive construction waste management plan is in place to divert over 75% of waste from landfills*
- Over 30% of total building materials are composed of recycled content*
- Over 25% of total building materials will be extracted, processed, and manufactured locally (within 500 miles)*
- Over 90% of wood-based materials and products are certified in accordance with the Forest Stewardship Council*

Indoor Environmental Quality

- All interior finishes were selected with low levels of Volatile Organic Compounds (VOC's) to reduce indoor air contamination
- Increased occupant controls for thermal and lighting systems to promote comfort, productivity, and well-being of building occupants
- Designed with abundant daylighting and views to improve energy efficiency and occupant comfort and productivity

*Pending Construction Phase Submittal
**Achieved Innovation & Design points through exemplary performance

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LEED-NC 2.2 SCORECARD

Owner : Port of Long Beach

Project : Operations

Location : Pier G : 925 Harbor Plaza, Long Beach, CA 90802

Certification : LEED Gold (targeting as of December 2010)

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5 0 9 Sustainable Sites — POSSIBLE POINTS 14

Y	?	N			
Y			Prereq 1	**Construction Activity Pollution Prevention**	Required
1			Credit 1	**Site Selection**	1
		1	Credit 2	**Development Density & Community Connectivity {EB}**	1
		1	Credit 3	**Brownfield Redevelopment**	1
		1	Credit 4.1	**Alternative Transportation,** Public Transportation Access (ID) **{EB}**	1
		1	Credit 4.2	**Alternative Transportation,** Bicycle Storage & Changing Rooms (ID)	1
1			Credit 4.3	**Alternative Transportation**, Low-Emitting and Fuel-Efficient Vehicles (ID)	1
1			Credit 4.4	**Alternative Transportation,** Parking Capacity 5% (ID)	1
		1	Credit 5.1	**Site Development,** Protect and Restore Habitat 50% (75%)	1
		1	Credit 5.2	**Site Development,** Maximize Open Space 25% (50%)	1
		1	Credit 6.1	**Stormwater Design,** Quantity Control	1
1			Credit 6.2	**Stormwater Design,** Quality Control	1
		1	Credit 7.1	**Heat Island Effect,** Non-Roof 50% (100%)	1
1			Credit 7.2	**Heat Island Effect,** Green Roof 50% (100%) Cool Roof 75%	1
		1	Credit 8	**Light Pollution Reduction**	1

4 0 1 Water Efficiency — POSSIBLE POINTS 5

Y	?	N			
1			Credit 1.1	**Water Efficient Landscaping,** Reduce by 50%	1
1			Credit 1.2	**Water Efficient Landscaping,** No Potable Use or No Irrigation	1
		1	Credit 2	**Innovative Wastewater Technologies,** 50% (100%)	1
1			Credit 3.1	**Water Use Reduction,** 20% Reduction (Process Load 10%)	1
1			Credit 3.2	**Water Use Reduction,** 30% Reduction (40%)	1

8 0 9 Energy & Atmosphere — POSSIBLE POINTS 17

Y	?	N			
Y			Prereq 1	**Fundamental Commissioning of the Building Energy Systems**	Required
Y			Prereq 2	**Minimum Energy Performance**	Required
Y			Prereq 3	**Fundamental Refrigerant Management**	Required
6		4	Credit 1	**Optimize Energy Performance** 10.5% - 42.5% (45.5%) **{EB}**	1-10
		3	Credit 2	**On-site Renewable Energy,** 2.5%, 7.5%, 12.5%, (17.5%)	1-3
1			Credit 3	**Enhanced Commissioning {EB}**	1
		1	Credit 4	**Enhanced Refrigerant Management**	1
1			Credit 5	**Measurement & Verification {EB}**	1
		1	Credit 6	**Green Power,** 35% (70%)	1

{EB} - Credit Can Assist in Certification Under LEED for Existing Buildings

7 0 6 Materials & Resources — POSSIBLE POINTS 13

Y	?	N			
Y			Prereq 1	**Storage & Collection of Recyclables**	Required
		1	Credit 1.1	**Building Reuse,** Maintain 75% of Existing Walls, Floors and Roof	1
		1	Credit 1.2	**Building Reuse,** Maintain 95% of Existing Walls, Floors and Roof	1
		1	Credit 1.3	**Building Reuse,** Maintain 50% of Interior Non-Structural Elements	1
1			Credit 2.1	**Construction Waste Management,** Divert 50% from Disposal	1
1			Credit 2.2	**Construction Waste Management**, Divert 75% from Disposal (95%)	1
		1	Credit 3.1	**Materials Reuse,** 5%	1
		1	Credit 3.2	**Materials Reuse,** 10% (15%)	1
1			Credit 4.1	**Recycled Content,** 10% (Post-consumer + 1/2 Pre-consumer) **{EB}**	1
1			Credit 4.2	**Recycled Content,** 20% (Post-consumer + 1/2 Pre-consumer) (30%) **{EB}**	1
1			Credit 5.1	**Regional Materials**, 10% Extracted, Processed & Manufactured Regionally **{EB}**	1
1			Credit 5.2	**Regional Materials**, 20% Extracted, Processed & Manufactured Regionally (40%) **{EB}**	1
		1			
1			Credit 6	**Rapidly Renewable Materials,** 2.5% (5%) **{EB}**	1

13 0 2 Indoor Environmental Quality — POSSIBLE POINTS 15

Y	?	N			
Y			Prereq 1	**Minimum IAQ Performance**	Required
Y			Prereq 2	**Environmental Tobacco Smoke (ETS) Control**	Required
1			Credit 1	**Outdoor Air Delivery Monitoring {EB}**	1
		1	Credit 2	**Increased Ventilation**	1
1			Credit 3.1	**Construction IAQ Management Plan,** During Construction	1
1			Credit 3.2	**Construction IAQ Management Plan,** Before Occupancy	1
1			Credit 4.1	**Low-Emitting Materials,** Adhesives & Sealants	1
1			Credit 4.2	**Low-Emitting Materials,** Paints and Coatings	1
1			Credit 4.3	**Low-Emitting Materials,** Carpet Systems	1
1			Credit 4.4	**Low-Emitting Materials,** Composite Wood & Agrifiber Products	1
1			Credit 5	**Indoor Chemical & Pollutant Source Control**	1
1			Credit 6.1	**Controllability of Systems,** Lighting	1
1			Credit 6.2	**Controllability of Systems,** Thermal Comfort **{EB}**	1
1			Credit 7.1	**Thermal Comfort,** Design **{EB}**	1
		1	Credit 7.2	**Thermal Comfort,** Verification **{EB}**	1
1			Credit 8.1	**Daylight & Views,** Daylight 75% of Spaces (95%) **{EB}**	1
1			Credit 8.2	**Daylight & Views,** Views for 90% of Spaces (ID) **{EB}**	1

5 0 0 Innovation & Design — POSSIBLE POINTS 5

Y	?	N			
1			Credit 1.1	**Innovation in Design,** 40% Water Use Reduction	1
1			Credit 1.2	**Innovation in Design,** 70% Green Power	1
1			Credit 1.3	**Innovation in Design,** Awareness & Education Program	1
1			Credit 1.4	**Innovation in Design,** Green Tenant Guidlines	1
1			Credit 2	**LEED Accredited Professional**	1

42 0 27 Project Totals — POSSIBLE POINTS 69

Certified: 26-32 points **Silver:** 33-38 points **Gold:** 39-51 points **Platinum:** 52-69 points