

## 2009-2025 Accomplishments

80,000,000

gallons

Waste water reclaimed

1,338,750

lbs.

Carbon dioxide (CO2) saved

796,875

kWh.

Energy produced via solar panels

63,000

people

Took an OCSL building tour

Net Zero

kWh.

Energy used from the grid

## Building Sq. Ft.

6,250

## Site Acreage

4.5

## Water Reclamation Capacity

52,000

Maximum Design Flow

38,000

Measured Maximum Flow

gallons per day (GPD)

Estimated annual flow 5 million gallons

## Sustainability Metrics

**The project is certified as LEED Platinum and has earned 'living' status in Living Building Challenge™ 1.3.**

## Embodied CO2

-1,387

metric tons (+/- 25%)

(Estimated using [buildcarbonneutral.com](https://buildcarbonneutral.com))

Embodied carbon is the carbon released when a product is manufactured, shipped to a project site and installed. The new wetlands plant area greatly offset the embodied CO<sub>2</sub> of the construction project, which resulted in a negative number.

The Construction Carbon Calculator estimates embodied carbon. This calculator looks at an entire project and takes into account the site disturbance, landscape and ecosystem installation or restoration, building size, and base materials of construction.

## Rainwater Use for Toilet Flushing

40

gallons. Average Daily Demand

1,800

gallon cistern stores enough water for 45 days

## Generation Capacity (Electricity)

2,830

sq. ft. of photovoltaic panels,  
211 panels in  
3 arrays

134.2

Kw/day  
(48.53 Kw/hour max output)

## Electricity Demand

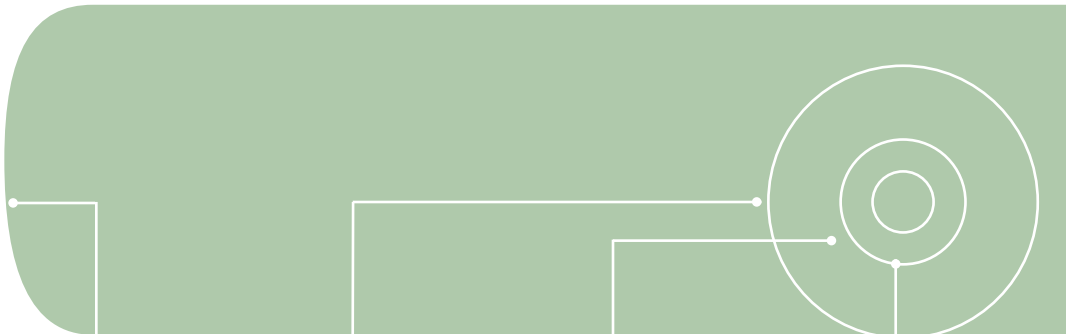
132.77

Kw/day (average)

## Electricity Usage

-1.43

Kw/day (average) - the building is designed to generate more electricity than it uses

Material Sourcing (based on Living Building Challenge)More info at: [eOmega.org/ocsl](http://eOmega.org/ocsl) & [issuu.com/bnim/docs/bnim\\_flow](http://issuu.com/bnim/docs/bnim_flow)

9,000

miles  
Renewable Energy  
Technologies (PV  
systems)

1,000

miles  
Lightweight  
Materials (insulation,  
carpet, fabrics)

500

miles  
Medium Weight  
Materials (wood  
products)

250

miles  
Heavy Materials  
(brick, stone,  
concrete)Wood Sourcing

All wood is either from FSC Certified Forest sources or reclaimed sources. Plywood roof and wall sheathing was reclaimed from the 2009 Presidential Inaugural Stage. Framing lumber was reclaimed from several deconstructed buildings in New York State.

Reclaimed Wood

1,198 cu. ft. Volume

52,703 lbs. Weight (plywood, framing lumber, siding, doors, trim, paneling)

Construction Waste Recycling and Diversion (from landfill)

99%

of metal  
scraps  
recycled

99%

of cardboard  
scraps and  
waste  
recycled

99%

of rigid  
foam waste  
was reused  
elsewhere or  
recycled

99%

of wood  
waste was  
shredded  
for mulch or  
stored for  
future use

100%

of food  
waste was  
composted

100%

of glass  
waste, paper,  
and plastic  
packaging  
waste was  
recycled.FSC Certified Wood

111 cu. ft. Volume

3660 lbs. Weight (windows, exterior doors, glu-lam structure, roof sheathing)

Red Materials Avoided (based on list from the Living Building Challenge)

Cadmium, Chlorinated Polyethylene and Chlorosulfonated Polyethylene, Chlorofluorocarbons (CFCs), Chloroprene (Neoprene), Formaldehyde (added), Halogenated Flame Retardants, Hydrochlorofluorocarbons (HCFCs), Lead, Mercury, Petrochemical Fertilizers and Pesticides, Phthalates, Polyvinyl Chloride (PVC), Wood Treatments containing Creosote, Arsenic or Pentachlorophenol

Project Team*Owner:* Omega Institute*Architect:* BNIM Architects, Steve McDowell, Laura Lesniewski, Brad Clark, Sarah Hirsch, Ramana Koti*Civil Engineer:* Chazen Companies, Jim Beninati*Construction:* David Sember Construction, David Sember*Ecological Design:* John Todd Ecological Design, Dr. John Todd, Chloe Starr, Conor Lally, Kim Robinson, Jonathan Todd*Landscape Architect:* Conservation Design Forum, David Yocca, Tom Price, Gerould Wilhelm, Trish Beckjord, Jason Addington*Mechanical/Electrical/Plumbing Engineer:* BGR Engineers, Katrina Gerber, Erin Zirjacks, Jim Basquette*Structural Engineer:* Tipping Mar + associates, David Mar, Marc Steyer*Water Systems Engineer:* Natural Systems International, Michael Ogden, Erin English, Pete Munoz, Olin Christy, Rachel Arrieta