How DPR’s Living Labs are Pioneering Net-Zero Energy Building Certification

THE PATH TO NET-ZERO ENERGY
How DPR’s Living Labs are Pioneering Net-Zero Energy Building Certification

INTERNATIONAL LIVING FUTURE INSTITUTE (ILFI) NET-ZERO CERTIFIED PROJECTS

BALTIMORE
WASHINGTON, D.C.
RICHMOND
RALEIGH-DURHAM
ORLANDO
TAMPA
WEST PALM BEACH
ATLANTA
HOUSTON
DALLAS
AUSTIN
DENVER
SACRAMENTO
SAN FRANCISCO
REDWOOD CITY
SAN JOSE
PASADENA
NEWPORT BEACH
SAN DIEGO
PHOENIX
BOSTON
NEW JERSEY

DPR Construction has embraced the net-zero energy challenge.

DPR’s Net-Zero Offices

Green Strategies

REVEAL

52% +113% 70% +195% 45% +110% 23

REVEAL

Net-Zero Office Comparisons

DPR San Diego
DPR Phoenix
DPR San Francisco
DPR Washington, D.C.

EUIs
14 kbtu/sf/yr
26 kbtu/sf/yr
23 kbtu/sf/yr
29 kbtu/sf/yr (estimate)

Daylighting
Rooftop Solar tube fixtures (Solatubes)
Rooftop daylight harvesting light wells
Daylight extension strategy – glass walls and reflective surfaces
Smart glass – Transitioning tint technology (RavenWindows and View Dynamic Glass)

Lighting
High efficiency and LED fixtures
Integrated Lighting and Zoning Design

Indoor Air Quality
Expanded Occupancy Thermal Comfort Zone
Enhanced air circulation - High Volume, Low velocity ceiling fans (Big Ass Fans)
Passive ventilation – Large Volume/High Ceilings – Stack Ventilation
Evaporative Cooling – Shower Towers
Natural Ventilation – Operable Windows and Rooftop Monitors – Solar Chimney
Exterior Window Shading/Treatments – Green Screens
Indoor Landscaping – In Ground Beds/Living Wall
Passive Ventilation – Operable Skylight
Heating/cooling radiant sails
Dew point-dependent controls
Simultaneous energy recovery from hot and cold water loops
Dedicated outdoor air system

Controls and Building Management
Passive Infra-Red Occupancy Controls
Time Controls and Shut-offs
Integrated Building Management System
Non-Occupied Energy Circuit Shut-off – Phantom Load Management Switch

Energy Consumption Awareness/Reduction
Energy End-Use Measurement Submeters
Building Energy Use Dashboard Display (Lucid Designs)
Occupant Plug Load Management & Measurement System – EnMetric
Low-energy and Energy Star equipment

Onsite Renewable Energy Generation
Rooftop Photovoltaic (PV) Solar Array
Rooftop Solar Water Heating Array
Shaded Parking Photovoltaic (PV) Solar Array

Learn more at www.dpr.com/view/path-to-net-zero-energy