



AIA 2030 COMMITMENT

Project Performance Data 2019

The AIA 2030 Commitment provides a framework to help firms evaluate the impact of project design on energy performance. It sets an industry wide goal to design carbon neutral buildings, developments and major renovations by 2030.

HDR signed the 2030 commitment in April 2009. As a signatory, HDR commits to design projects that are carbon neutral by 2030, and we commit to reporting the predicted energy performance for all of our projects that are under design each year. This Commitment also allows us to understand how our projects perform relative to the rest of the industry, to identify ways that we can improve our work, and to provide better service to our clients.

HDR has provided detailed reporting to the AIA since 2014. Our reporting for the past 6 years has shown that we continue to move our practice forward and improve our project energy performance year over year; however, it also shows that we are still falling short of the AIA 2030 Commitment targets.

As we move into 2020, the AIA 2030 target reduction increases to 80%, and we know the challenge with meeting the commitment will be even more difficult. As a firm, we know we can deliver the high performance, regenerative projects that are needed to make a difference, and we look forward to the challenge!

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COLIN ROHLFING

Vice President
Director of Sustainable Development





Orange County Sanitation District Orange County, California

LADWP Hoover Street
Power Yard
Los Angeles,
California

LADWP West LA Power Yard Los Angeles, California

Westmead Hospital Sydney, Australia





Summary

Our firm-wide predicted energy use reduction was 47.5%. We continue to improve year over year, however, we are below the industry average of 49%, and well short of the targets established by the 2030 Commitment.

Energy modeling has become part of our practice. We reported that over 90% of our portfolio would have an energy model, which exceeds the industry average and continues to put us in reach of our 100% energy modeling goal. The next step will be to implement energy modeling earlier into the design process for all of our projects.

None of our projects reported embodied carbon data. As we move forward, it will be imperative that we utilize Life Cycle Assessments to estimate and reduce the embodied carbon associated with the design and construction of our work.



2015

27957.0 million SF

333

2016

45.2 million SF

2017

278

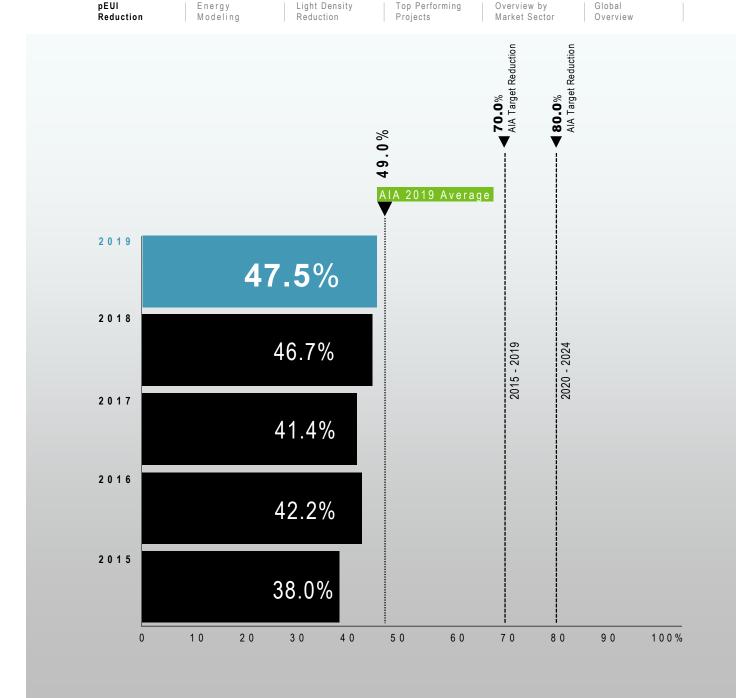
38.1 million SF

2018

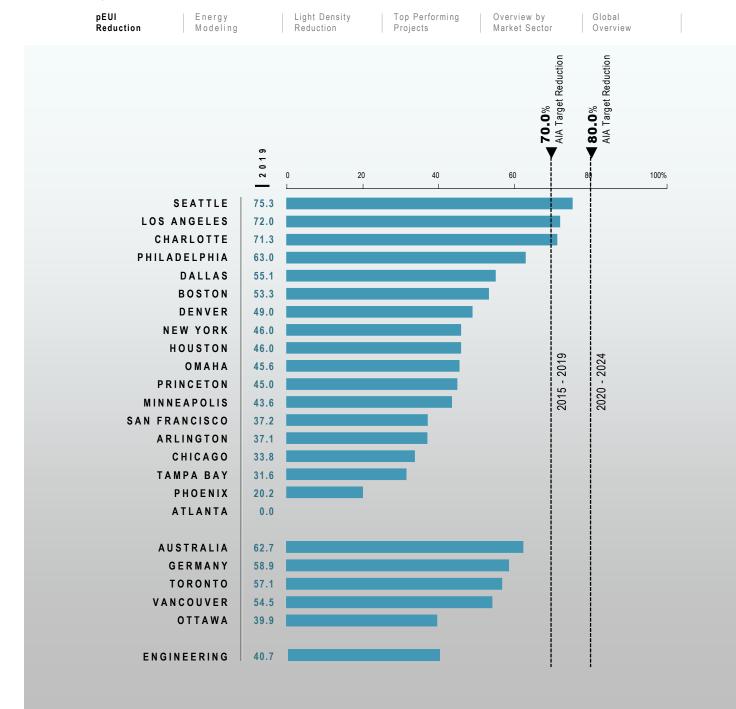
331

44.2 million SF

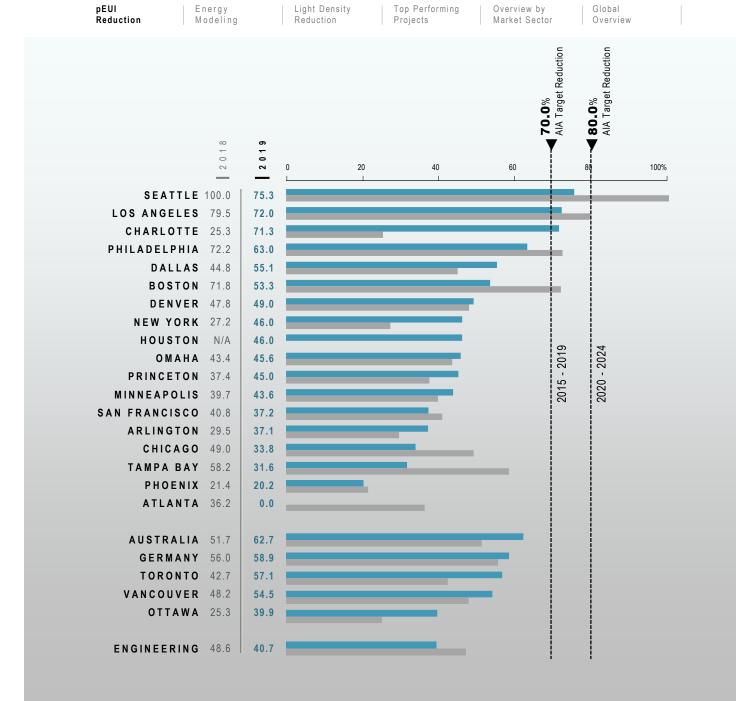
HDR
PREDICTED
ENERGY USE
INTENSITY
(pEUI)
REDUCTION



PREDICTED
EUI
REDUCTION
BY OFFICE
2019

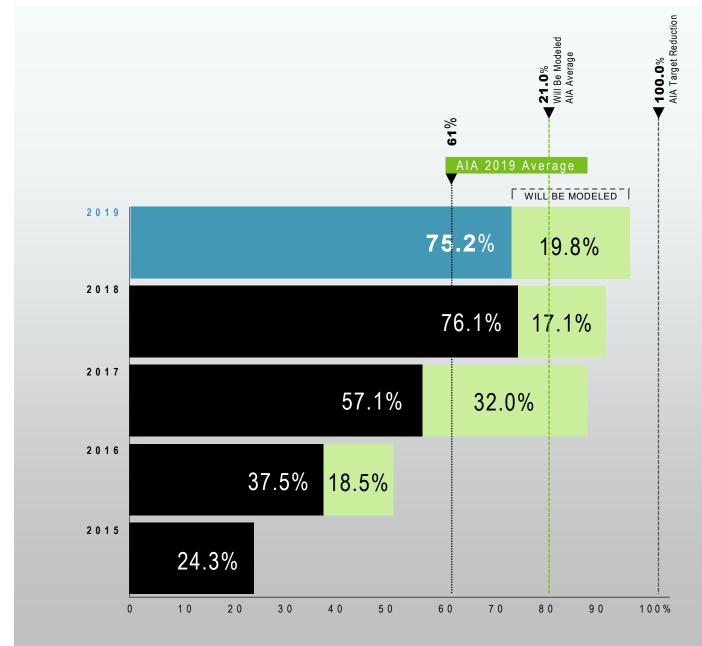


PREDICTED
EUI
REDUCTION
BY OFFICE
2018-2019

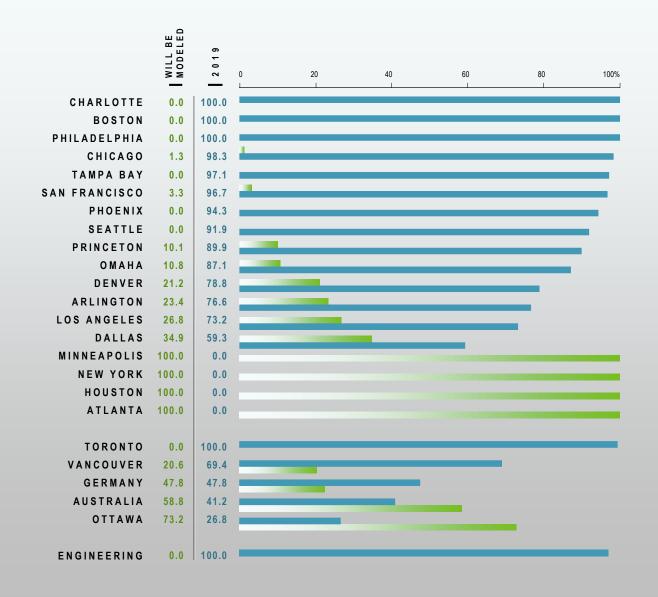


HDR (GSF) ENERGY MODELING

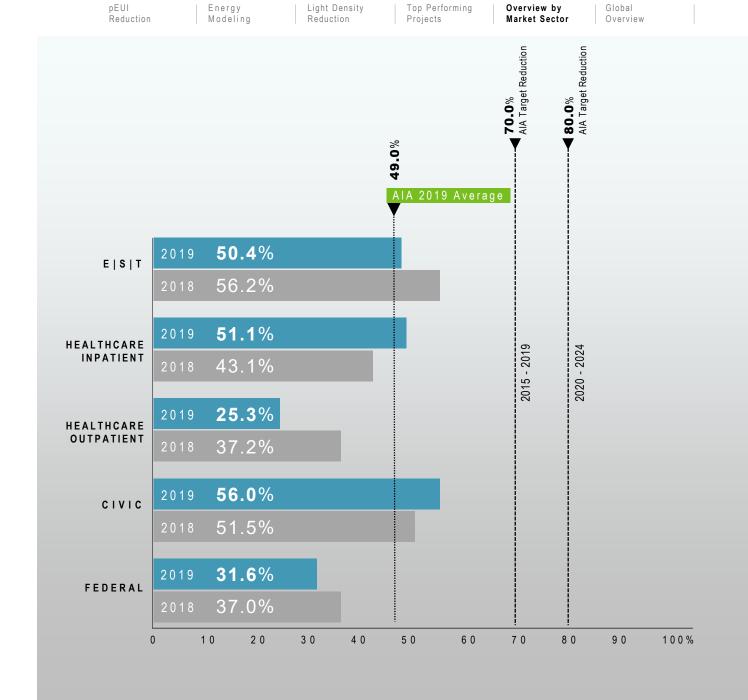




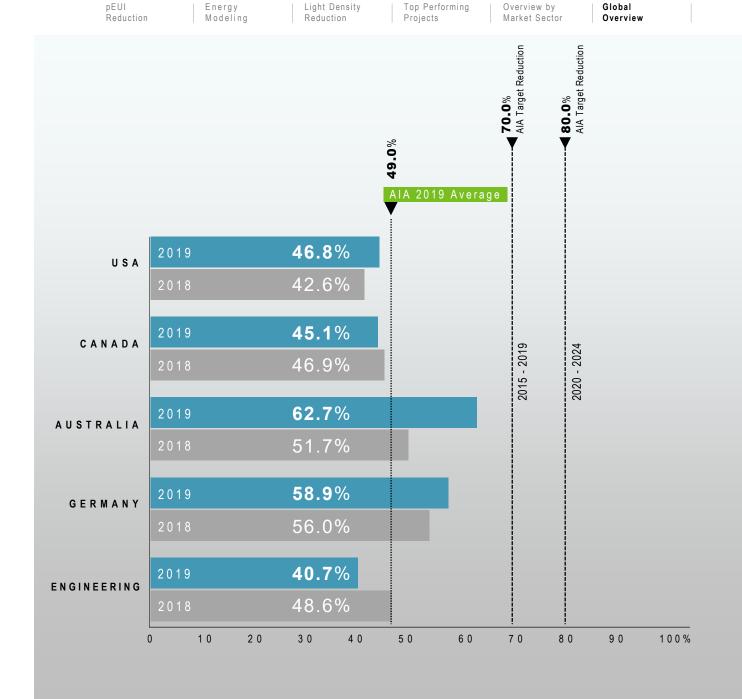
ENERGY MODELING BY OFFICE 2019 pEUI Energy Light Density Top Performing Overview by Global Reduction Modeling Reduction Projects Market Sector Overview



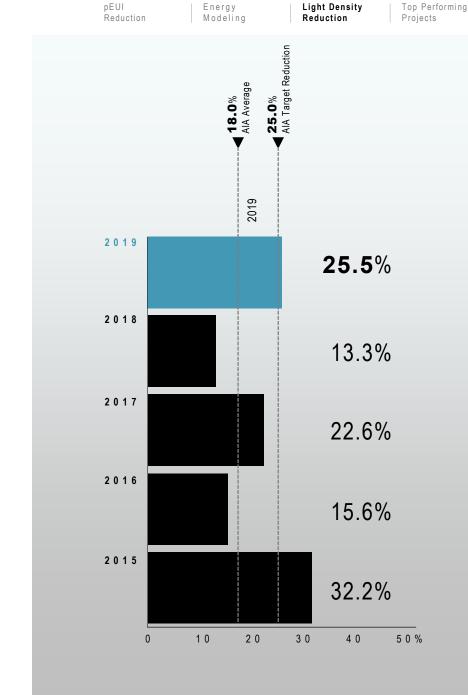
PREDICTED EUI REDUCTION BY MARKET SECTOR



PREDICTED EUI REDUCTION BY LOCATION



AVERAGE LIGHTING DENSITY REDUCTION

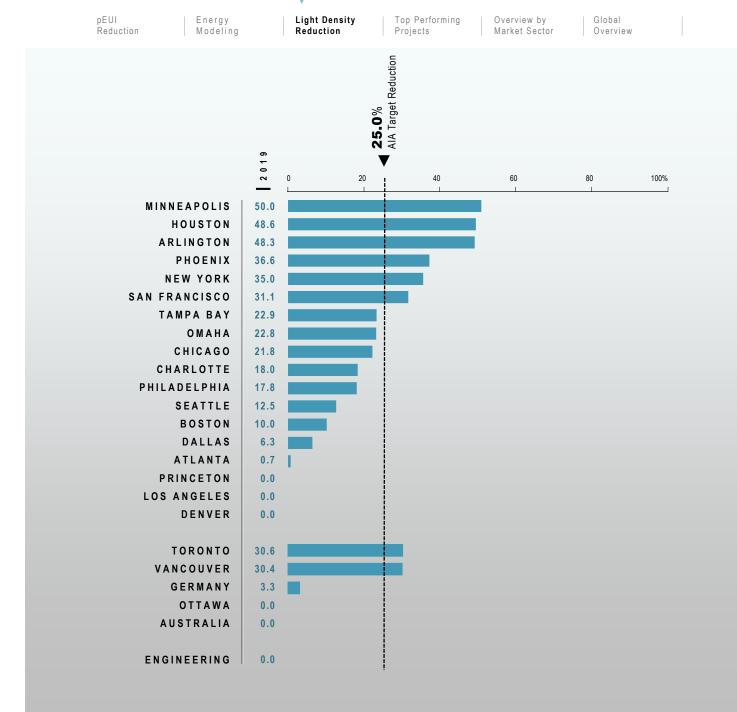


Global

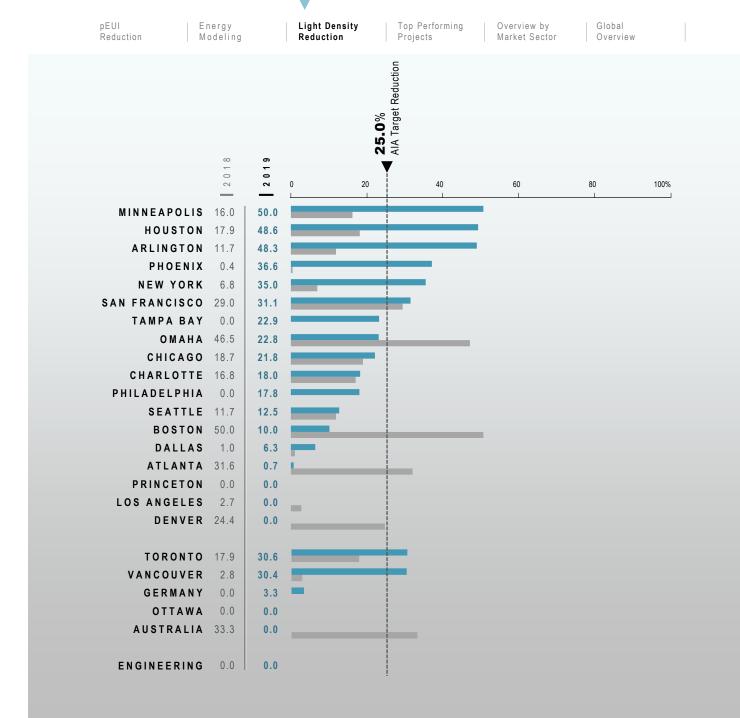
Overview

Market Sector

LIGHTING
DENSITY
REDUCTION
BY OFFICE
2019



LIGHTING
DENSITY
REDUCTION
BY OFFICE
2018-2019



pEUI Reduction Energy Modeling Light Density Reduction Top Performing Projects Overview by Market Sector Global Overview

TOP PROJECTS

PROJECT	BUILDING TYPE	%pEUI REDUCTION	PREDICTED (EUI / LPD)
LADWP West LA Power Yard	Service (vehicle repair/service, postal service)	121.6	-11.25
LADWP Hoover Power Yard	Service (vehicle repair/service, postal service)	106.1	-3.05
Orange County Sanitation District	Office - Medium (10,000 to 100,000 sf)	101.8	-1.65
Westmead Hospital	Health Care - Hospital Inpatient	90	22.7
Ersatzneubau Munchen Klinik Harlaching	Health Care - Hospital Inpatient	86.7	30.2
Penn State Hershey	Health Care - Hospital Inpatient	82.1	410
Western Cancer Center Dubbo	Health Care - Hospital Inpatient	81.2	42.6
Dubbo Hospital Redevelopment	Health Care - Hospital Inpatient	81	43.1
P1395 MARINE RAIDER HQ	Office - Medium (10,000 to 100,000 sf)	79.9	18.1
Strukturprojekt Klinikum Chemnitz	Health Care - Hospital Inpatient	79.5	46.6
King County Park Maintenance Facility	Service (vehicle repair/service, postal service)	78.2	16.8
Singleton MTR	Other	77.4	16.7
Argonne Long Beamline	Laboratory	77.4	43
BC Housing Sooke	Residential - Multi-Family, 5 or more units	74.1	20.7
UKSH ÖPP Neubau ÜE 1 - LP2-4	Health Care - Hospital Inpatient	73.3	60.7
UKSH ÖPP Neubau ÜE 1 - LP5	Health Care - Hospital Inpatient	73.3	60.7
LBNL Welcome Center	Food Service - Restaurant/Cafeteria	73.2	52.7
Chemainus Library	Public Assembly - Library	72.7	42
Schuylkill Yards - West Tower	Mixed-Use	72.3	25
Confidential Data Center	Data Center	72.2	318
RoyalBCMuseum - Research & Collections Building	Public Assembly - General	70.1	46
Douglas County Juvenile Justice Center	Courthouse	70.1	29
RC-VulcanPool	Public Assembly - Recreation	69.9	40
Tarrant Co Juvenile Center Ph2	Courthouse	69.5	36
Denton Co: Charlie Cole	Courthouse	69.5	36
LADWP Western District Yard	Service (vehicle repair/service, postal service)	68.5	17.3
1595 Bear Creek Residential Development	Residential - Multi-Family, 5 or more units	67.5	26
Sooke Library	Public Assembly - Library	67.5	50