

**Arc PORTFOLIO REPORT** 

# **My Gap Analysis**

Report created on Sep 21, 2020 Based on data for Sep 01, 2019 - Aug 31, 2020

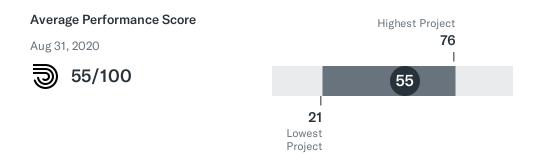
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# **Arc Performance Score**



The Arc Performance Score is the weighted combination of measured performance in five performance categories, including energy, water, waste, transportation, and human experience. A score of 100 indicates performance comparable to the best projects in the Arc Reference Set. Learn more about <a href="How Arc Scores">How Arc Scores</a>.



Score graphics illustrates the range of project performance in this portfolio. The number in the solid circle indicates the average for all projects on the final day of the period. The right side of the filled bar illustrates the score for the highest scoring project. The left side of the filled var illustrates the score for the lowest scoring project.

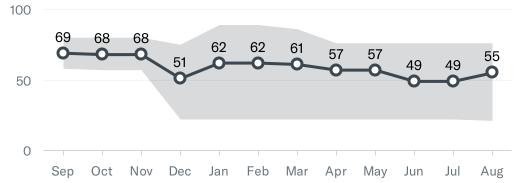
## Portfolio-wide monthly average Arc Performance Score

Sep 01, 2019 - Aug 31, 2020

Average score Score min/max

59/100

Arc Score



Arc Score calculated for the first day of each month

## **Arc Performance Score (Continued)**



## **Arc Performance Score (Continued)**

## Portfolio Average Human Experience Score

Sep 01, 2019 - Aug 31, 2020

Average Score Score min/max

67/100

84

78

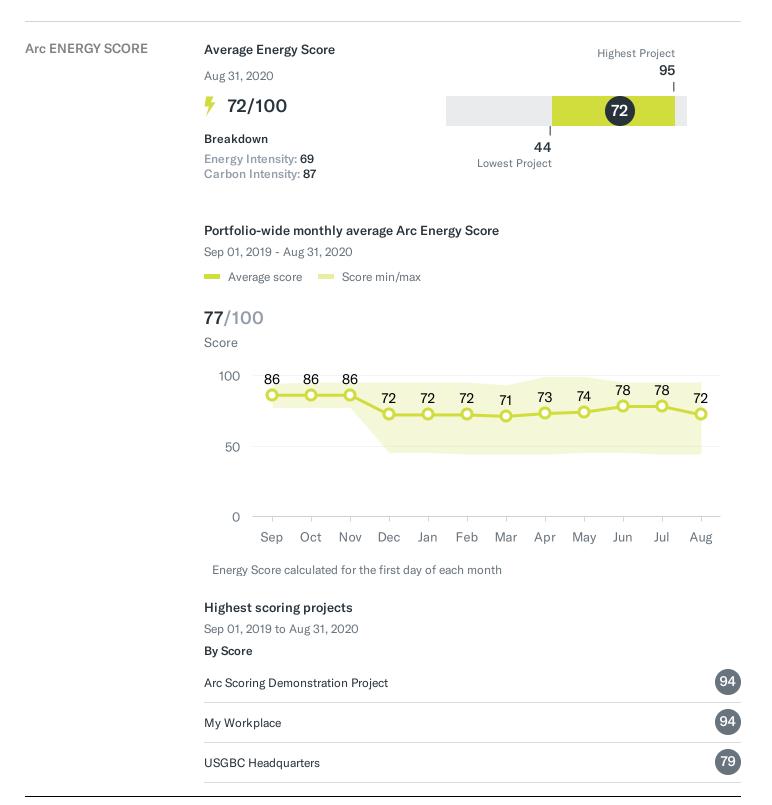
54

Human Experience Score calculated for the first day of each month

# **Energy Performance**



The Arc Energy Performance Score reflects an equally weighted combination of source energy and greenhouse gas emissions. A score of 100 indicates that project performance meets or exceeds the best projects in the Arc Reference Set. A score of 0 indicates that project performance trails the Arc Reference Set. Scores and metrics presented in this section do not include Transportation.





## Lowest scoring projects

Sep 01, 2019 to Aug 31, 2020

## By Score

My First Arc Project



**USGBC** Headquarters



Arc Scoring Demonstration Project



## KEY PERFORMANCE INDICATORS

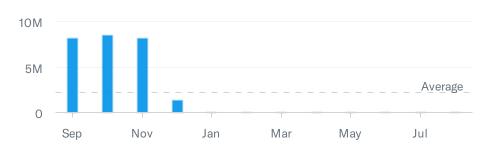
## Natural gas

Total natural gas consumption for all projects from Sep 01, 2019 to Aug 31, 2020

Total for the period

## **26.16M** kBTU



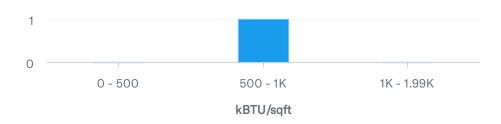


## Natural gas intensity per square foot

Distribution of average annual natural gas intensities by project from Sep 01, 2019 to Aug 31, 2020

Count for the period

#### count





KEY PERFORMANCE INDICATORS (CONTINUED)

## Electricity

Total electricity consumption for all projects from Sep 01, 2019 to Aug 31, 2020

Total for the period

## **1.08M** kBTU



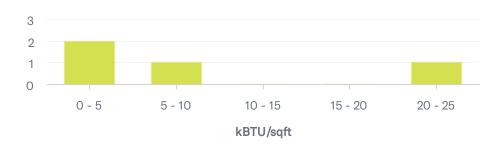


## Electricity intensity per square foot

Distribution of average annual electricity intensities by project from Sep 01, 2019 to Aug 31, 2020

Count for the period

#### count





KEY PERFORMANCE INDICATORS (CONTINUED) Site Energy is the amount of energy consumed by a building as measured by utility meters. It is typically the basis for energy bills.

## Total site energy

Total site energy consumption for all projects from Sep 01, 2019 to Aug 31, 2020

Total for the period

## **27.24M** kBTU



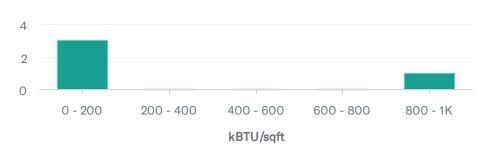


## Site energy intensity per square foot

Sep 01, 2019 - Aug 31, 2020

Count for the period

#### count





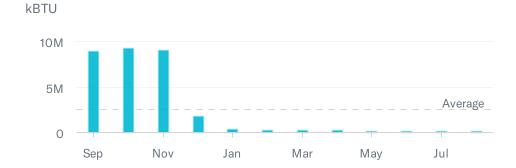
KEY PERFORMANCE INDICATORS (CONTINUED) Source Energy represents the total energy used by the building, including energy consumed in extraction, processing and transport of primary fuels such as coal, oil and natural gas; energy losses in thermal combustion in power generation plants; and energy losses in transmission and distribution

## Total source energy

Total source energy consumption for all projects from Sep 01, 2019 to Aug 31, 2020

Total for the period

## 30.48M kBTU

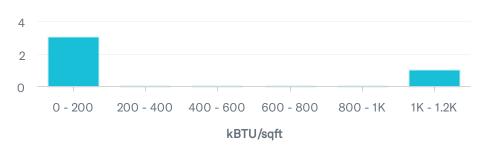


## Source energy intensity per square foot

Sep 01, 2019 - Aug 31, 2020

Count for the period







#### **IMPROVEMENT**

## Improvement

Improvement describes the change in portfolio-wide performance over the last 24 months. The following table compares the current 12-month period (ending on the last day of the coverage period) with the preceding 12-month period. These metrics are not scored for portfolios.

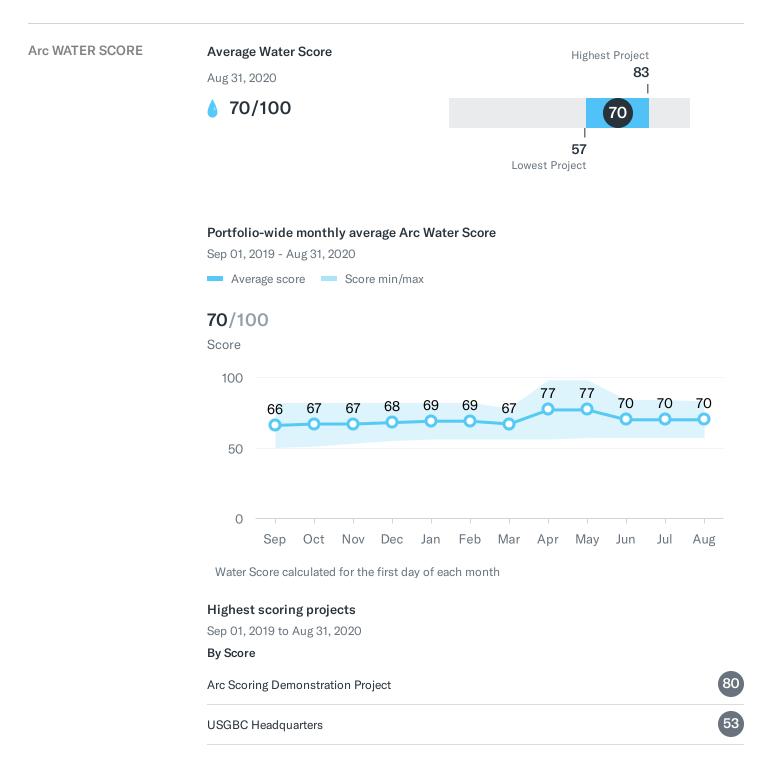


	Site Energy Intensity	Source Energy Intensity	Gross Area
	kBtu/floor area	kBtu/floor area	sqft
Change	<b>6</b> %	<b>▲</b> 5.6%	0.1%
	(Less is better)	(Less is better)	
Sep 01, 2018 - Aug 31, 2019	83	90	1,467,395
Sep 01, 2019 - Aug 31, 2020	88	95	1,468,314

# **Water Performance**



The Arc Water Performance Score is based on whole project potable water consumption. Non-potable water use is not scored. A score of 100 indicates that project performance meets or exceeds the best projects in the Arc Reference Set. A score of 0 indicates that project performance trails the Arc Reference Set.





## **Water Performance (Continued)**

## Lowest scoring projects

Sep 01, 2019 to Aug 31, 2020

## By Score

**USGBC** Headquarters



Arc Scoring Demonstration Project



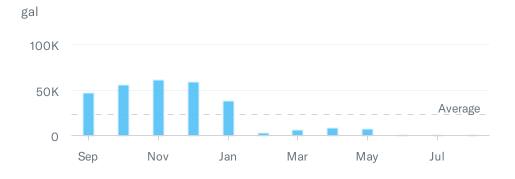
## KEY PERFORMANCE INDICATORS

## Total water usage

Total water usage for all projects from Sep 01, 2019 to Aug 31, 2020

Total for the period

## 279.05K gal

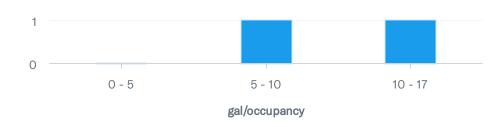


## Water use intensity per occupant

Sep 01, 2019 - Aug 31, 2020

Count for the period

## count





## **Water Performance (Continued)**

#### **IMPROVEMENT**

## Improvement

Improvement describes the change in portfolio-wide performance over the last 24 months. The following table compares the current 12-month period (ending on the last day of the coverage period) with the preceding 12-month period. These metrics are not scored for portfolios.

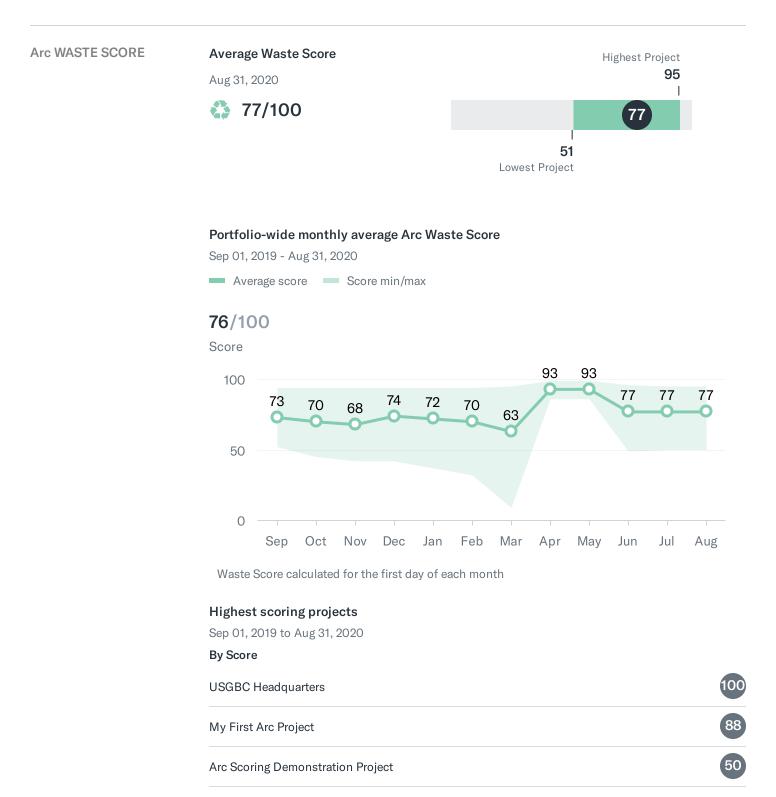


	Water	Gross Area
	gal/sqft	sqft
Change	NA	0.1%
	(Less is better)	
Sep 01, 2018 - Aug 31, 2019	1	1,467,395
Sep 01, 2019 - Aug 31, 2020	0	1,468,314

## **Waste Performance**



The Arc Waste Performance Score is based on an equally weighted combination of waste generation and waste diversion. Construction and demolition waste are not included. A score of 100 indicates that project performance meets or exceeds the best projects in the Arc Reference Set. A score of 0 indicates that project performance trails the Arc Reference Set.





## **Waste Performance (Continued)**

## Lowest scoring projects

Sep 01, 2019 to Aug 31, 2020

## By Score

Arc Scoring Demonstration Project



My First Arc Project



**USGBC** Headquarters



KEY PERFORMANCE INDICATORS

## **Waste Generated**

Total waste generated consumption for all projects from Sep 01, 2019 to Aug 31, 2020

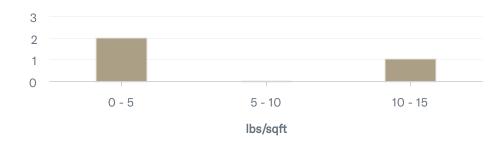
106.68K lbs

## Waste generated intensity per square foot

Average annual waste generation rate per project for the period from Sep 01, 2019 to Aug 31, 2020

Count for the period

#### count





## **Waste Performance (Continued)**

KEY PERFORMANCE INDICATORS (CONTINUED)

#### **Waste Diverted**

Total waste diverted consumption for all projects from Sep 01, 2019 to Aug 31, 2020

63.61K lbs

## Waste diversion rate per square foot

Average waste diversion as a percent for the entire portfolio from Sep 01, 2019 to Aug 31, 2020

Count for the period

#### count



#### **IMPROVEMENT**

## Improvement

Year-over-year change in waste compared change in GRESB participants. Occupants are day-weighted average for the whole period.



	Waste Generated	Waste Diverted	Occupants
	lbs/occupant/day	lbs/occupant/day	people
Change	<b>42.2%</b>	<b>40</b> %	17.4%
	(Less is better)	(More is better)	
Sep 01, 2018 - Aug 31, 2019	45	25	1,548
Sep 01, 2019 - Aug 31, 2020	64	35	1,818

# **Transportation Performance**



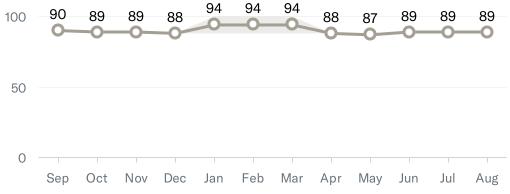
The Arc Transportation Performance Score is base on the carbon intensity of travel to the project. This is based on information on travel mode, mode emissions intensity, and travel distance. A score of 100 indicates that project performance meets or exceeds the best projects in the Arc Reference Set. A score of 0 indicates that project performance trails the Arc Reference Set.

Arc TRANSPORTATION SCORE



## Portfolio-wide monthly average Arc Transportation Score





Transportation Score calculated for the first day of each month

#### Highest scoring projects

Sep 01, 2019 to Aug 31, 2020

By Score

**USGBC** Headquarters

86



## Lowest scoring projects

Sep 01, 2019 to Aug 31, 2020

By Score

**USGBC** Headquarters



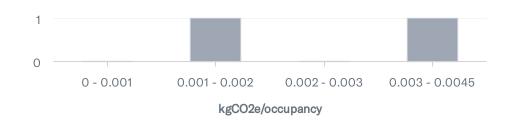
## KEY PERFORMANCE INDICATORS

## GHG emissions per commute

Sep 01, 2019 - Aug 31, 2020

Count for the period

count

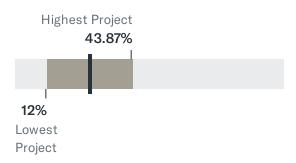


## Average survey response rate

Sep 01, 2019 to Aug 31, 2020

Portfolio average min/max

## 28%





KEY PERFORMANCE INDICATORS (CONTINUED)

## Transportation Survey Response breakdown

Cumulative transportation survey response breakdown consumption for all projects from Sep 01, 2019 to Aug 31, 2020

Cumulative for the period

## 80 Responses

## Responses

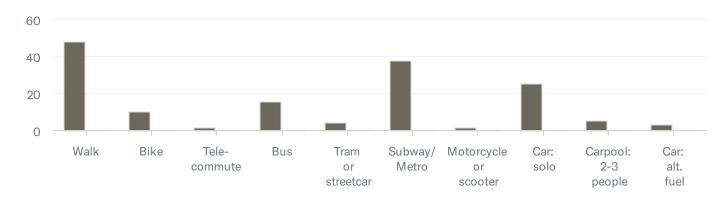


## Travel mode

Distribution of responses for all projects and all respondents from Sep 01, 2019 to Aug 31, 2020

Portfolio average regular occupant responses
 Portfolio average visitor reponses

% of responses





KEY PERFORMANCE INDICATORS (CONTINUED)

#### **Transportation distance**

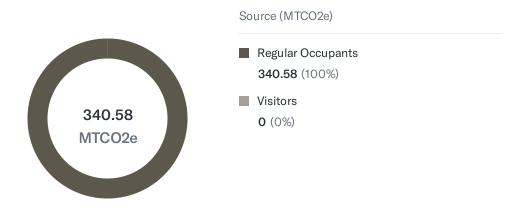
Average one-day commute distance for all respondents in the portfolio during the period from Sep 01, 2019 to Aug 31, 2020

Count for the period count



#### **Total Emissions**

Emissions from Sep 01, 2019 to Aug 31, 2020



## Total estimated distance traveled





#### **IMPROVEMENT**

## Improvement

Year-over-year change in waste compared change in GRESB participants. Occupants are day-weighted average for the whole period.



	Average CO2e	Occupants
	mtCO2e	people
Change	O% (Less is better)	17.4%
Sep 01, 2018 - Aug 31, 2019	0.000925	1,548
Sep 01, 2019 - Aug 31, 2020	0.000925	1,818

# **Human Experience Performance**



The Arc Human Experience Performance Score is based on a combination of perceived occupant satisfaction and measured indoor air quality. A score of 100 indicates that project performance meets or exceeds the best projects in the Arc Reference Set. A score of 0 indicates that project performance trails the Arc Reference Set.

Arc HUMAN EXPERIENCE Average Human Experience Score Highest Project **SCORE** 61 Aug 31, 2020 54/100 Breakdown Occupant Satisfaction: 69 Lowest Project CO2 Level: 99 Total VOC Level: 49 Portfolio-wide monthly average Arc Human Experience Score Sep 01, 2019 - Aug 31, 2020 Average score Score min/max 67/100 Score 100 84 82 81 78 78 76 59 54 54 54 54 54 50 Nov Dec Jan Feb Mar Apr May Jun Jul Aug Human Experience Score calculated for the first day of each month Highest scoring projects Sep 01, 2019 to Aug 31, 2020 By Score **USGBC** Headquarters Arc Scoring Demonstration Project



## Lowest scoring projects

Sep 01, 2019 to Aug 31, 2020

## By Score

Arc Scoring Demonstration Project



**USGBC** Headquarters



## KEY PERFORMANCE INDICATORS

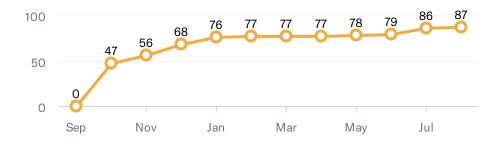
## **Survey Responses**

Cumulative survey responses consumption for all projects from Sep 01, 2019 to Aug 31, 2020

Cumulative for the period

## 808 Responses

## Responses

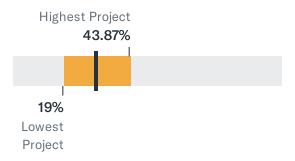


## Average survey response rate

Sep 01, 2019 to Aug 31, 2020

Portfolio average min/max

## 31%





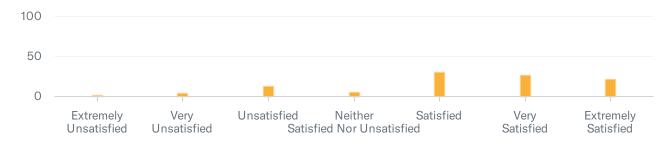
## KEY PERFORMANCE INDICATORS (CONTINUED)

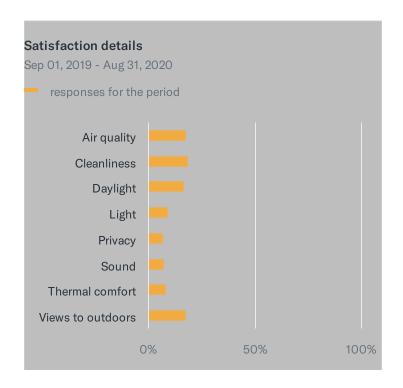
## **Occupant satisfaction**

Percentage of responses for all projects in the portfolio from Sep 01, 2019 to Aug 31, 2020

Responses for the period

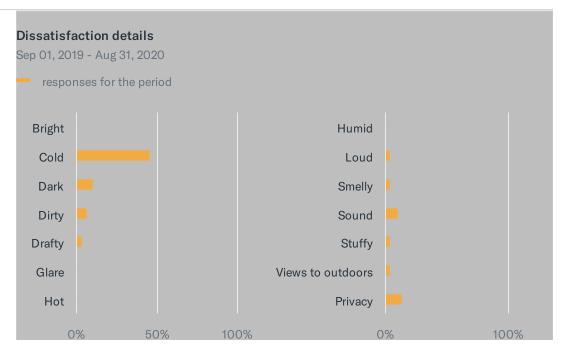
% response rate







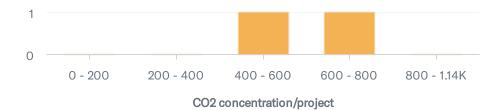
KEY PERFORMANCE INDICATORS (CONTINUED)



## **CO2 Concentration**

Range of measured 95th percentile CO2 concentrations for all projects in the portfolio from Sep 01, 2019 to Aug 31, 2020

Count for the period count





KEY PERFORMANCE INDICATORS (CONTINUED)

## **TVOC Concentration**

Range of measured TVOC concentrations for all projects in the portfolio from Sep 01, 2019 to Aug 31, 2020

Count for the period count



TVOC concentration/project

## **IMPROVEMENT**

## Improvement



	Occupant Satisfaction	Occupants
	occupant average	people
Change	▼ 12.9% (Higher is better)	17.4%
Sep 01, 2018 - Aug 31, 2019	0.487356	1,548
Sep 01, 2019 - Aug 31, 2020	0.424242	1,818

# **GHG Emissions**



Spaces and buildings generate both direct and indirect greenhouse gas emissions (GHG). Direct emissions results from the on-site combustion of fossil fuels. These are described as Scope 1 emissions. Indirect emissions result from the purchase of energy from sources like electric utilities or steam plants. These are described as Scope 2 emissions.

KEY PERFORMANCE INDICATORS

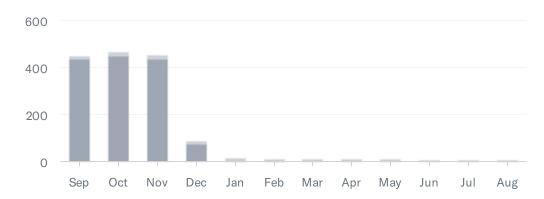
#### Cumulative Scope 1 & 2 GHG emissions

Sum of Scope 1 and 2 for all projects from from Sep 01, 2019 to Aug 31, 2020. NOTE: First and last month contain partial data

Total Scope 1 for the period
 Total Scope 2 for the period

## 1.51K MTCO2e

MTCO2e



## GHG emissions intensity - Scope 1 & 2

Sep 01, 2019 - Aug 31, 2020

Count for the period

#### count



kgCO2e per floor per day/sqft

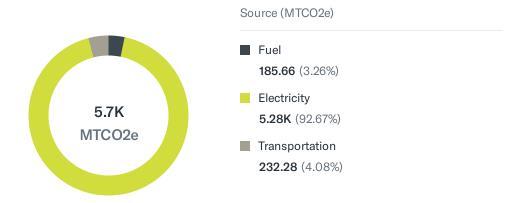


## **GHG Emissions (Continued)**

KEY PERFORMANCE INDICATORS (CONTINUED)

## GHG emissions by source

GHG emissions sources from Sep 01, 2019 to Aug 31, 2020



# **LEED Impact Analysis**



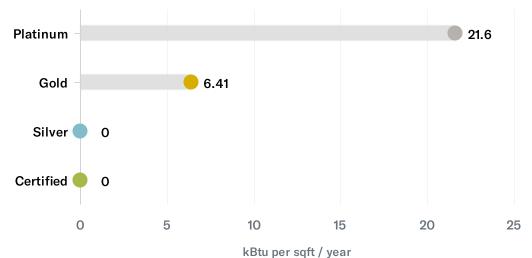
LEED recognizes projects working to save energy, conserve water, and provide superior indoor environmental quality. This section provides a snapshot of project performance by certification level. Add LEED certified projects to the portfolio to see comparisons.

LEED METRICS IMPACT

#### **Energy use intensity**

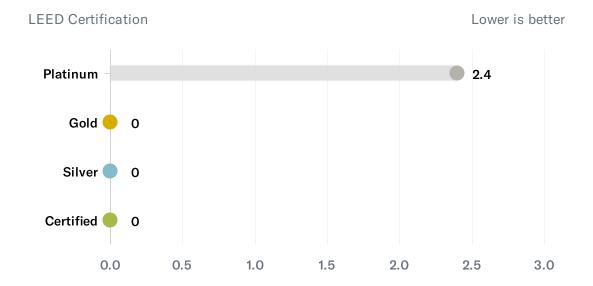
Energy use intensity by LEED certification level

LEED Certification Lower is better



## Emissions by floor area

Scope 1 and 2 GHG emissions intensity per unit floor area by LEED certification level





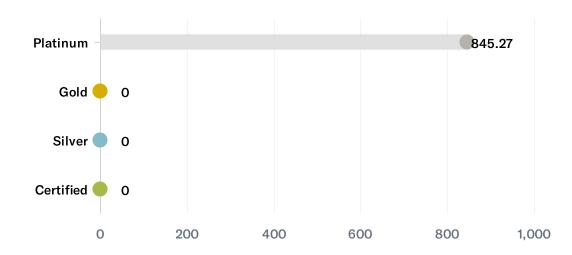
## **LEED Impact Analysis (Continued)**

LEED METRICS IMPACT (CONTINUED)

## **Emissions by occupant**

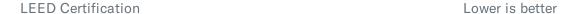
Scope 1 and 2 GHG emissions intensity per FTE occupant by LEED certification level

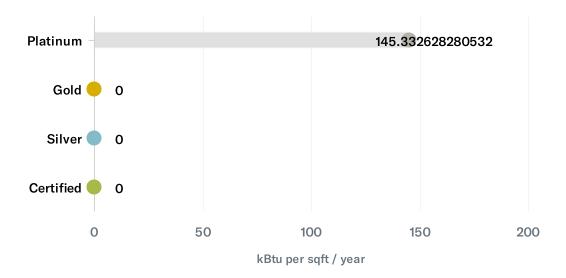




## **Emissions by commute**

Average home-to-work travel GHG emissions intensity by LEED certification level





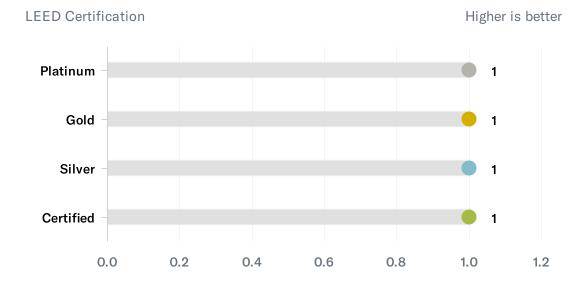


## **LEED Impact Analysis (Continued)**

LEED METRICS IMPACT (CONTINUED)

## Occupant satisfaction

Reported occupant satisfaction by LEED certification level - values range from 1 (lowest) to 8 (highest)



# **LEED v4.1 Readiness Analysis**



Arc powers LEED. This means that Arc Performance Score serve as prerequisites and earn point for LEED v4.1 O+M, LEED Recertification, LEED Zero, and other rating systems. This section provides information about the "readiness" of a project to pursue LEED certification, including prerequisite scores, data completeness, and documentation.

LEED READINESS DISTRIBUTION

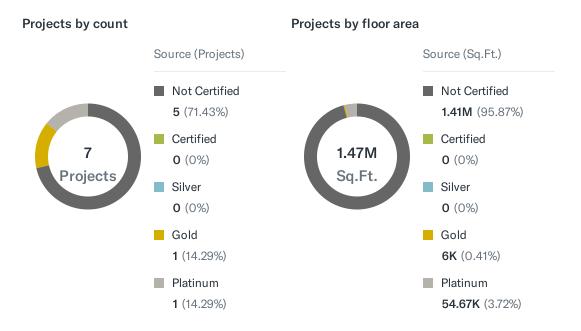
## LEED readiness portfolio distribution on Sep 21, 2020

Number of projects



## Projects by LEED certification level on Sep 21, 2020

Potential certification level by Arc Performance Score





## **LEED v4.1 Readiness Analysis (Continued)**

## PROJECTS NEAR LEED **CERTIFICATION**



## LEED Platinum

Projects approaching LEED Platinum	Score	Data Completion	Documentation
USGBC Headquarters	76	×	$\bigcirc$
LEED Certified			
Projects approaching LEED Certified	Score	Data Completion	Documentation
My Workplace	31	$\otimes$	$\bigcirc$



## **LEED v4.1 Readiness Analysis (Continued)**

## TOP FIVE PROJECTS BY ARC PERFORMANCE CATEGORY



## Energy - Top five projects by Arc score

Project	Score
Arc Scoring Demonstration Project	94
My Workplace	94
USGBC Headquarters	79
My First Arc Project	45



## Water - Top five projects by Arc score

Project	Score
Arc Scoring Demonstration Project	80
USGBC Headquarters	53



## Waste - Top five projects by Arc score

Project	Score
USGBC Headquarters	100
My First Arc Project	88
Arc Scoring Demonstration Project	50



## **LEED v4.1 Readiness Analysis (Continued)**

## TOP FIVE PROJECTS BY ARC PERFORMANCE CATEGORY



## Transportation - Top five projects by Arc score

Project	Score
USGBC Headquarters	86



## Human Experience - Top five projects by Arc score

Project	Score
USGBC Headquarters	60
Arc Scoring Demonstration Project	50

# **Portfolio Details**

Overal	
--------	--

Overall	
Number of projects	7
Total floor area	1,468,314
Percent of projects reporting data	57
Date first project created in Arc	Sep 08, 2020
Date last project created in Arc	Sep 21, 2020
Energy	
Total number of data entries ("records") for all projects in the portfolio	8,056
Average number of data entries per project	1,151
Number of projects with any automated data connections	0
Fraction of measurements provided by a partner	0
Water	
Total number of data entries ("records") for all projects in the portfolio	14
Average number of data entries per project	2
Number of projects with any automated data connections	0
Fraction of measurements provided by a partner	0
Waste	
Total number of data entries ("records") for all projects in the portfolio	14
Average number of data entries per project	2
Number of projects with any automated data connections	0
Fraction of measurements provided by a partner	0

## **Portfolio Details (Continued)**

Fraction records provided by data partner

Transportation	
First record for any project	Oct 31, 2019
Most recent record for any project	Jul 23, 2020
Number of records for any project	80
Average number of records per project	11
Human Experience - Satisfaction	
First record for any project	Oct 31, 2019
Most recent record for any project	Aug 13, 2020
Number of records for any project	87
Average number of records per project	12
Human Experience - IAQ	
First record for any project	Sep 01, 2019
Most recent record for any project	Aug 31, 2020
Number of records for any project	961
Average number of records per project	137
Number of projects with an automated data connection	0

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0

# **Learn More About Arc**



Arc Skoru Inc. is a technology company that is affiliated with Green Business Certification, Inc and the U.S. Green Building Council. Arc Skoru Inc. believes that performance is the future of green building and created the "Arc" performance platform to help create better buildings and places for people and the environment. Arc empowers its users to understand and enhance their sustainability performance, promote human health and well-being and contribute to a higher quality of life.

#### **Partners**



















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