



THE KATHLEEN GRIMM SCHOOL

Posted on May 23, 2018 by Urban UrbanNext



Categories: [Energy and sustainability](#), [High Density](#), [Middle Density](#), [Project](#), [SOM](#), [Urban Paradigms](#)

Tags: [Ecological agencies](#), [Ecological researches](#), [Education](#), [Efficiency](#), [Efficiency measures](#), [Energetic Approach](#), [Energy consciousness](#), [Energy consumption](#), [Facilities](#), [Green roofs](#), [Heliomorphism](#), [New York](#), [Project](#), [Shade Shaping](#), [Solar Energy](#), [Sustainability](#), [Sustainable](#), [Sustainable construction](#), [Urban Paradigms](#), [Zero Energy](#)

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>

The Kathleen Grimm School for Leadership and Sustainability at Sandy Ground is the first net zero energy school in New York City and one of the first of its kind worldwide. The 68,000-square-foot, two-story school serves 444 pre-kindergarten through fifth grade students. The cutting-edge building harvests as much energy from renewable on-site sources as it uses on an annual basis.



ISSN : 2575-5374

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>



ISSN : 2575-5374

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>



ISSN : 2575-5374

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>



ISSN : 2575-5374

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>



urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>



urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>



Designed to comply with the SCA Green Schools Guide in lieu of LEED® certification, the project is the NYC School Construction Authority's first "sustainability lab." This exploration into ultimate sustainability will provide substantial benefits to the City's School Design Program and help achieve PlaNYC goals for significant reductions in global warming emissions. SOM's design offers an energy-use reduction of 50% over a SCA standard public school.

ISSN : 2575-5374

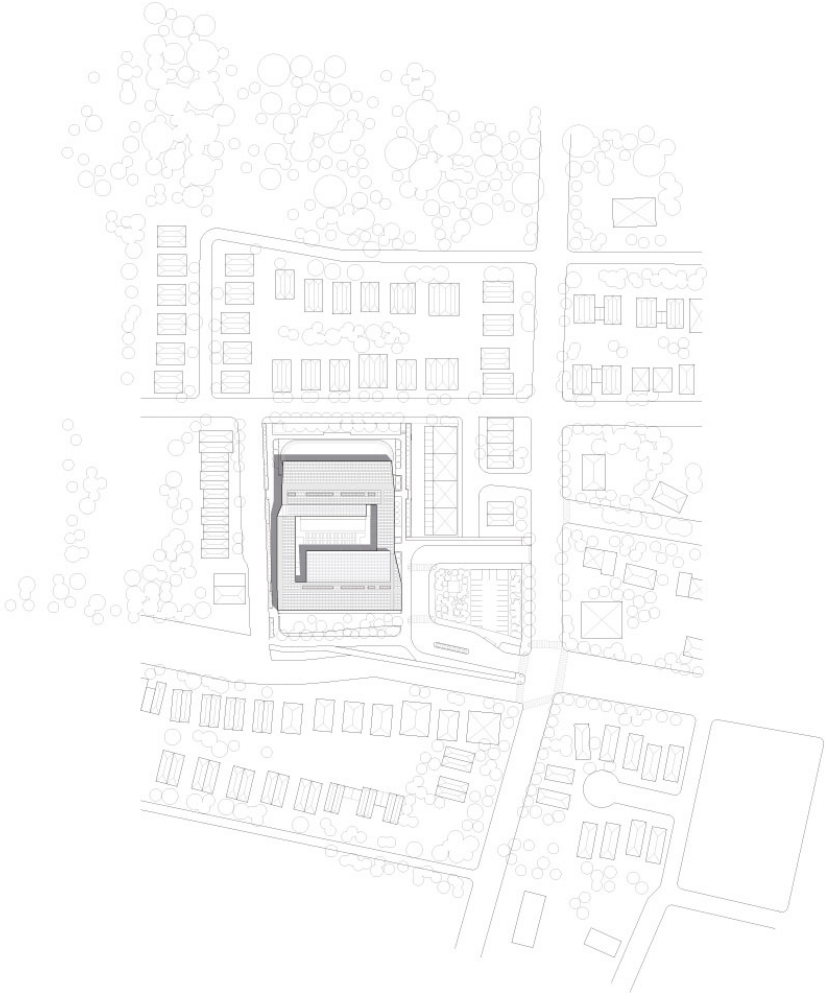
urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>

PROJECT NAME
P.S.62 NET ZERO
ENERGY SCHOOL

DRAWING NAME
SITE PLAN

PHASE SUBMITTED
COMPLETED 2015



Site Plan

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>

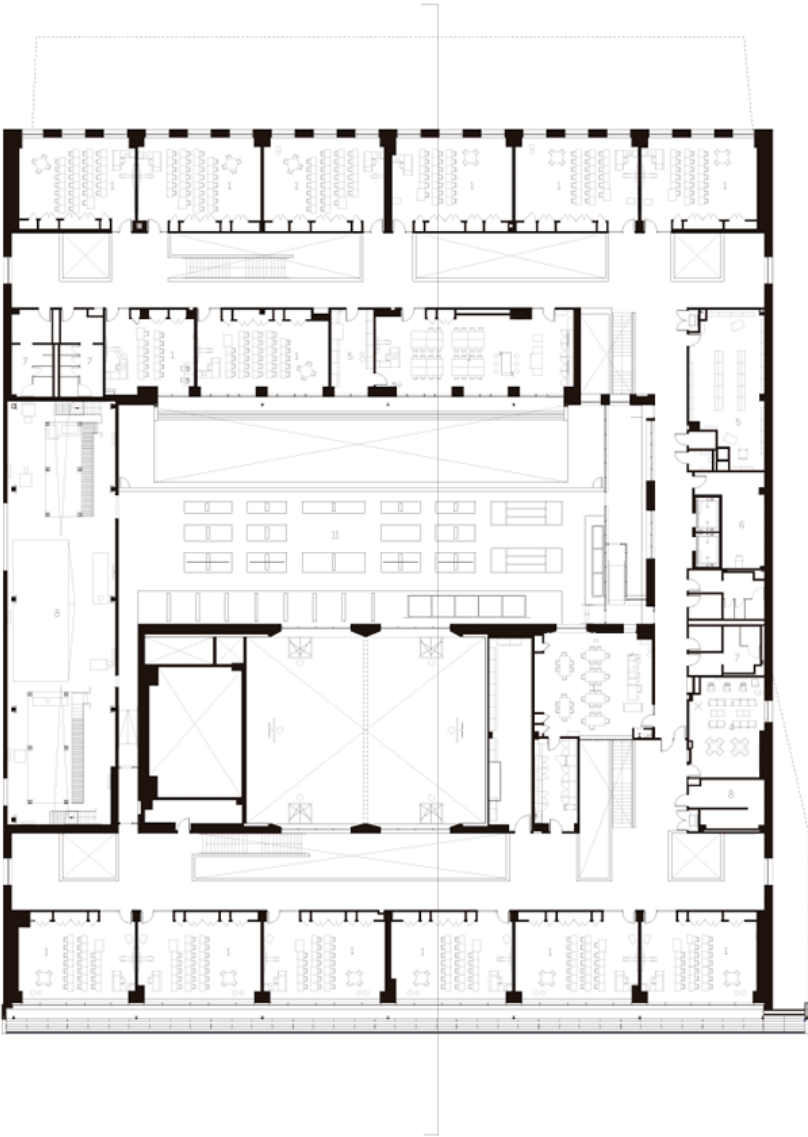
PROJECT NAME
PS.62 NET ZERO
ENERGY SCHOOL

LOCATION
STATEN ISLAND, NEW YORK

DRAWING NAME
SECOND FLOOR PLAN

PHASE SUBMITTED
COMPLETED 2015

- LEGEND
- 1 CLASSROOM
 - 2 GYMNASIUM
 - 3 CAFETERIA
 - 4 OFFICE
 - 5 STORAGE
 - 6 SERVICE
 - 7 RESTROOM
 - 8 MEP
 - 9 LIBRARY
 - 10 COURTYARD
 - 11 GARDEN



Plans

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>

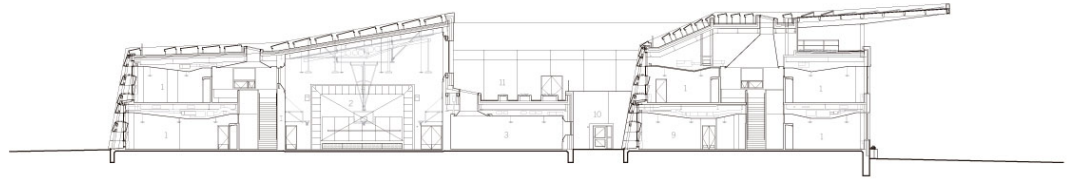
PROJECT NAME
PS.62 NET ZERO
ENERGY SCHOOL

DRAWING NAME
NORTH SOUTH SECTION

PHASE SUBMITTED
COMPLETED 2015

LEGEND

1	CLASSROOM
2	GYMNASIUM
3	CAFETERIA
4	OFFICE
5	STORAGE
6	SERVICE
7	RESTROOM
8	MEP
9	LIBRARY
10	COURTYARD
11	GARDEN



0 5 10 20 40

North South Section

ISSN : 2575-5374

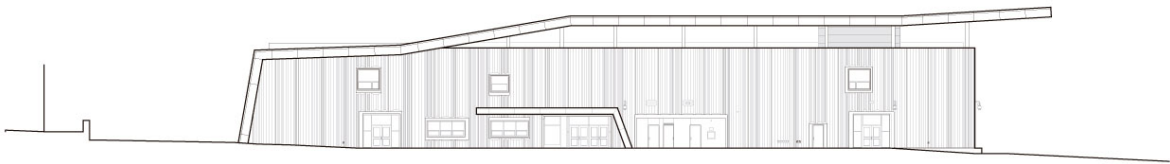
urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>

PROJECT NAME
PS.62 NET ZERO
ENERGY SCHOOL

DRAWING NAME
EAST ELEVATION

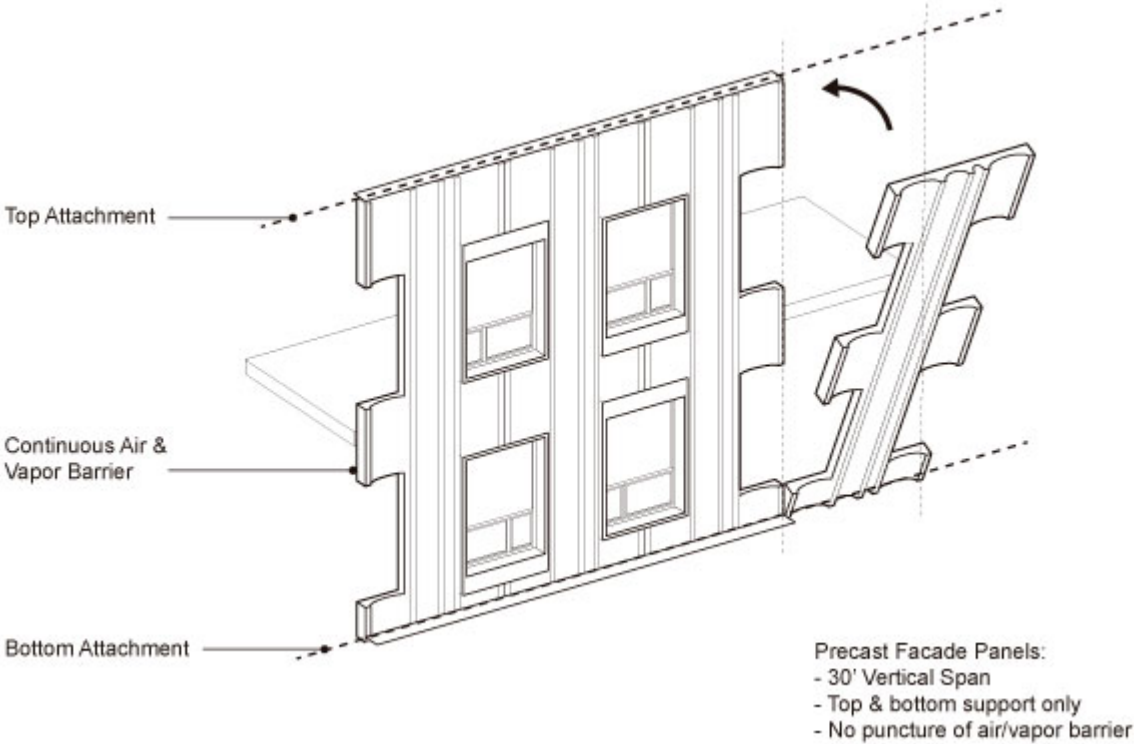
PHASE SUBMITTED
COMPLETED 2015



0 5 10 20 40

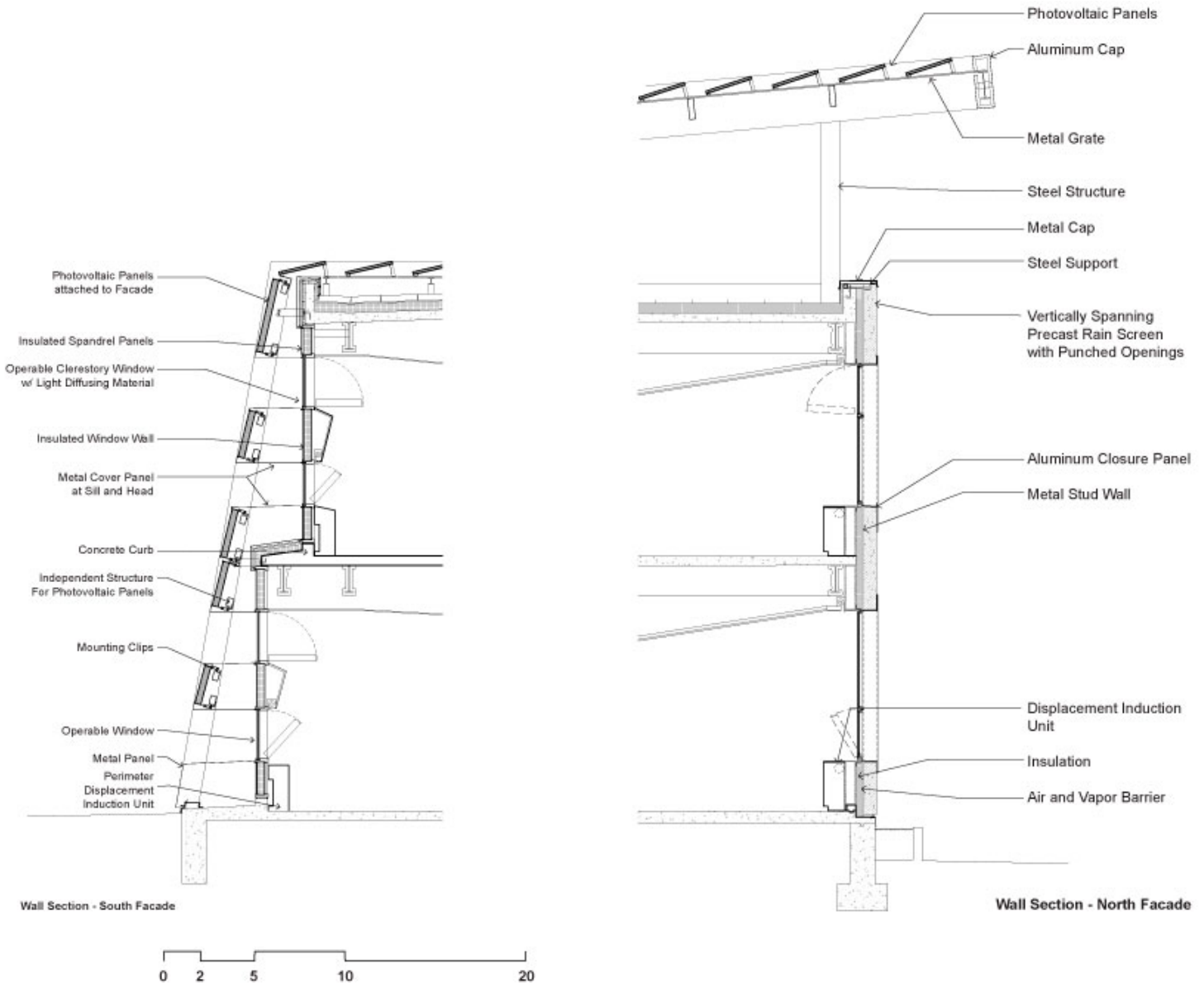
East Elevation

urbanNext Lexicon



Precast Diagram

urbanNext Lexicon



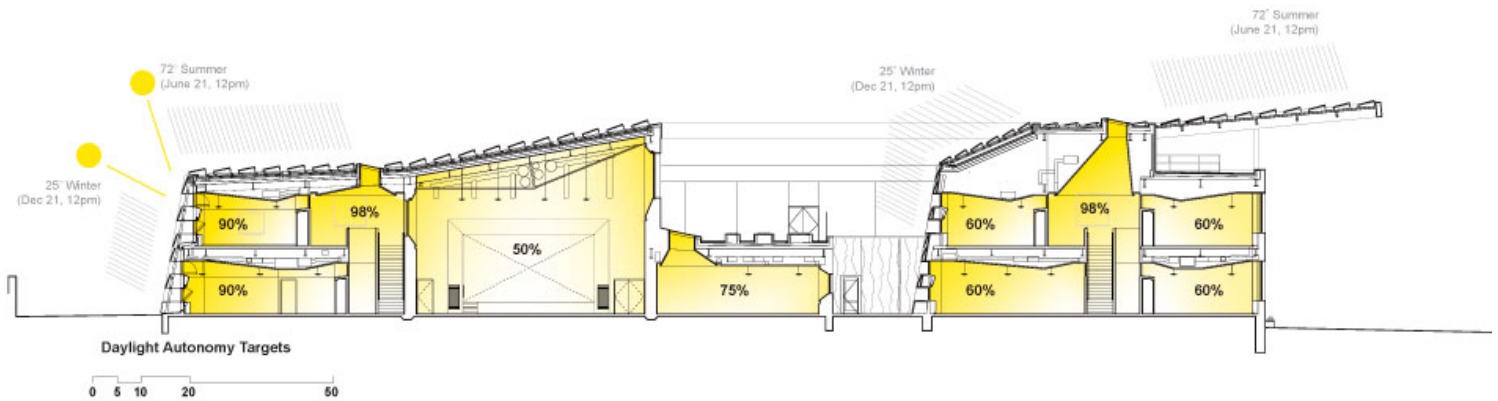
Wall Sections

SOM optimized the orientation and massing of the courtyard-shaped building to take advantage of sunlight for both ample daylighting and photovoltaic arrays on the roof and south facade. Other sustainable and low-energy features incorporated in the design include an ultra-tight high-

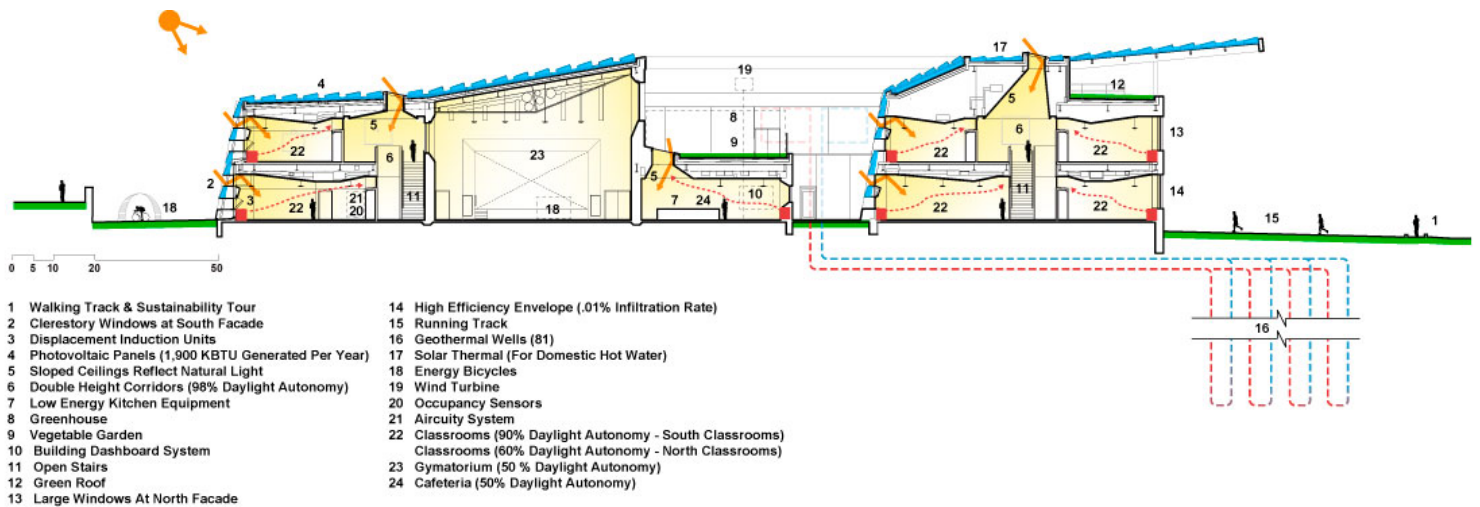
urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>

performance building envelope, daylit offset corridors, energy-efficient lighting fixtures, low-energy kitchen equipment, a greenhouse and vegetable garden, a geo-exchange system, energy recovery ventilators and demand-control ventilation, and a solar thermal system for hot water.



Daylight Section

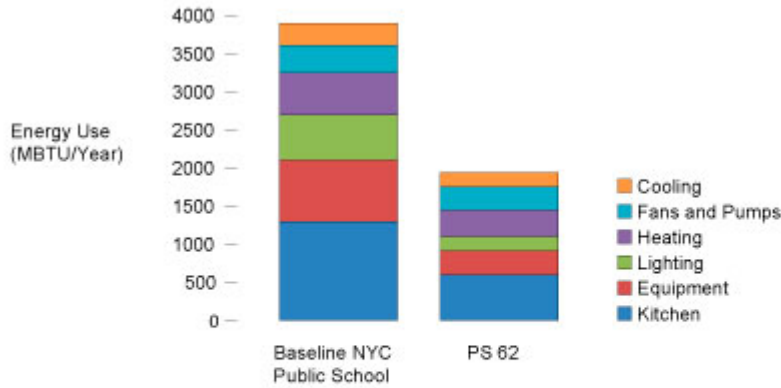


Sustainability Section

ISSN : 2575-5374

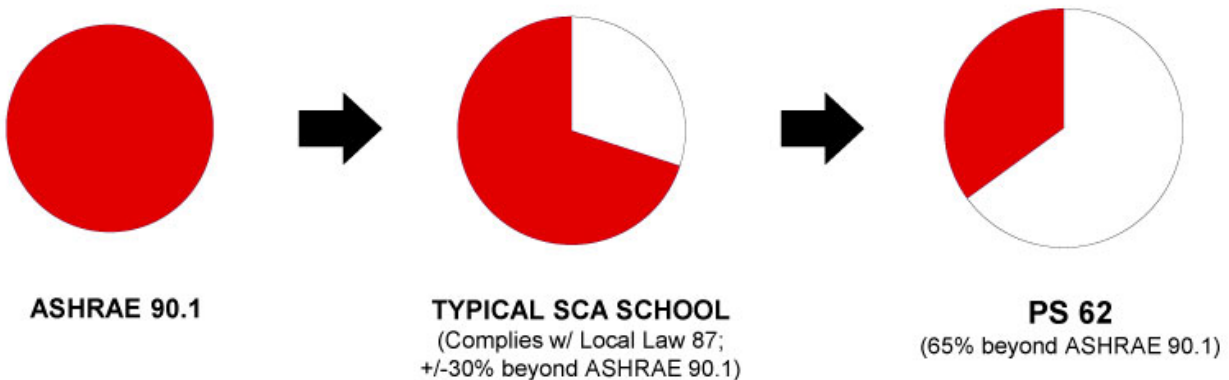
urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>



Information depicted is based on design analysis, preliminary in nature, and will need to be verified through the course of the building's operation.

Energy Data Chart

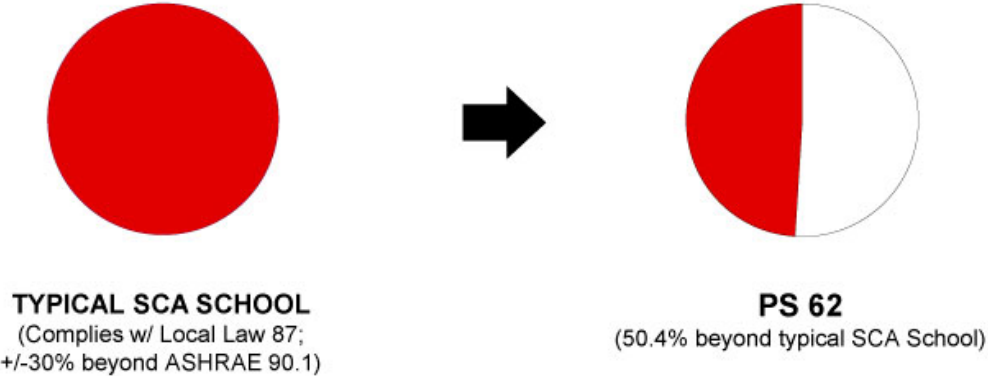


Information depicted is based on design analysis, preliminary in nature, and will need to be verified through the course of the building's operation.

 ENERGY USE

ISSN : 2575-5374

urbanNext Lexicon



Information depicted is based on design analysis, preliminary in nature, and will need to be verified through the course of the building's operation.

ENERGY USE

Comparative Energy Use

urbanNext Lexicon

The Kathleen Grimm School
<https://urbannext.net/the-kathleen-grimm-school/>

ISSN : 2575-5374