



## THE KATHLEEN GRIMM SCHOOL

*Posted on May 23, 2018 by Urban UrbanNext*



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

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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



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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



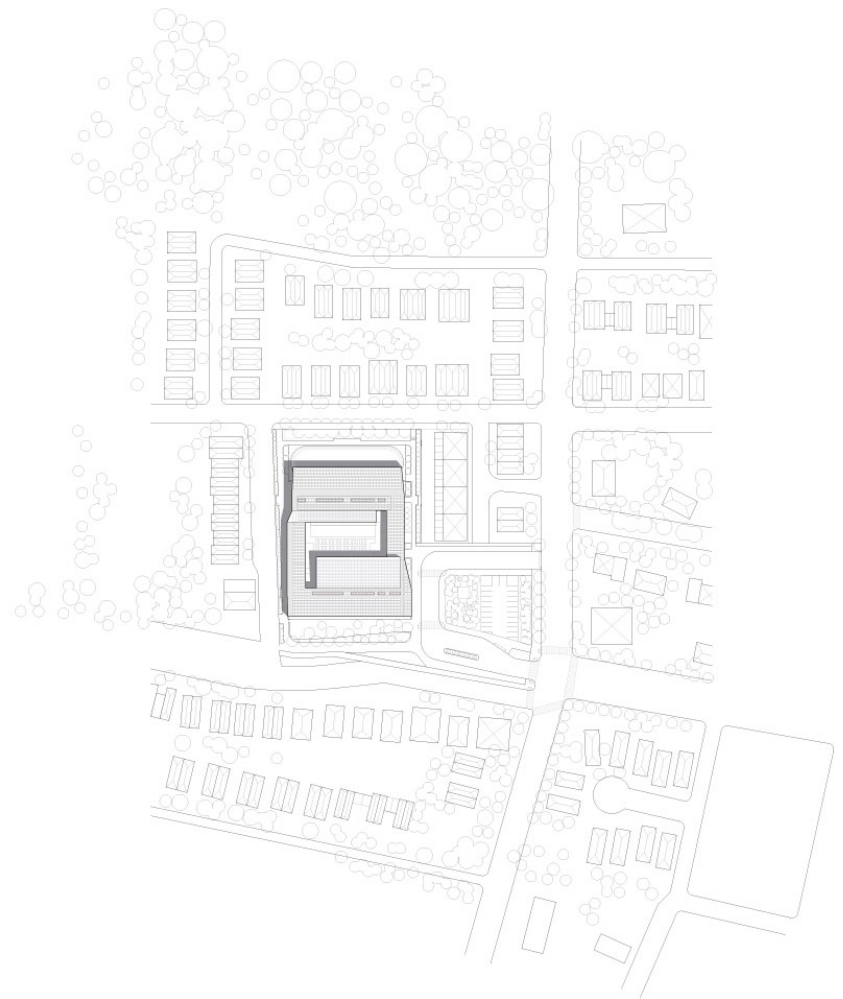
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PROJECT NAME  
P.S.62 NET ZERO  
ENERGY SCHOOL

DRAWING NAME  
SITE PLAN

PHASE SUBMITTED  
COMPLETED 2015



**Site Plan**

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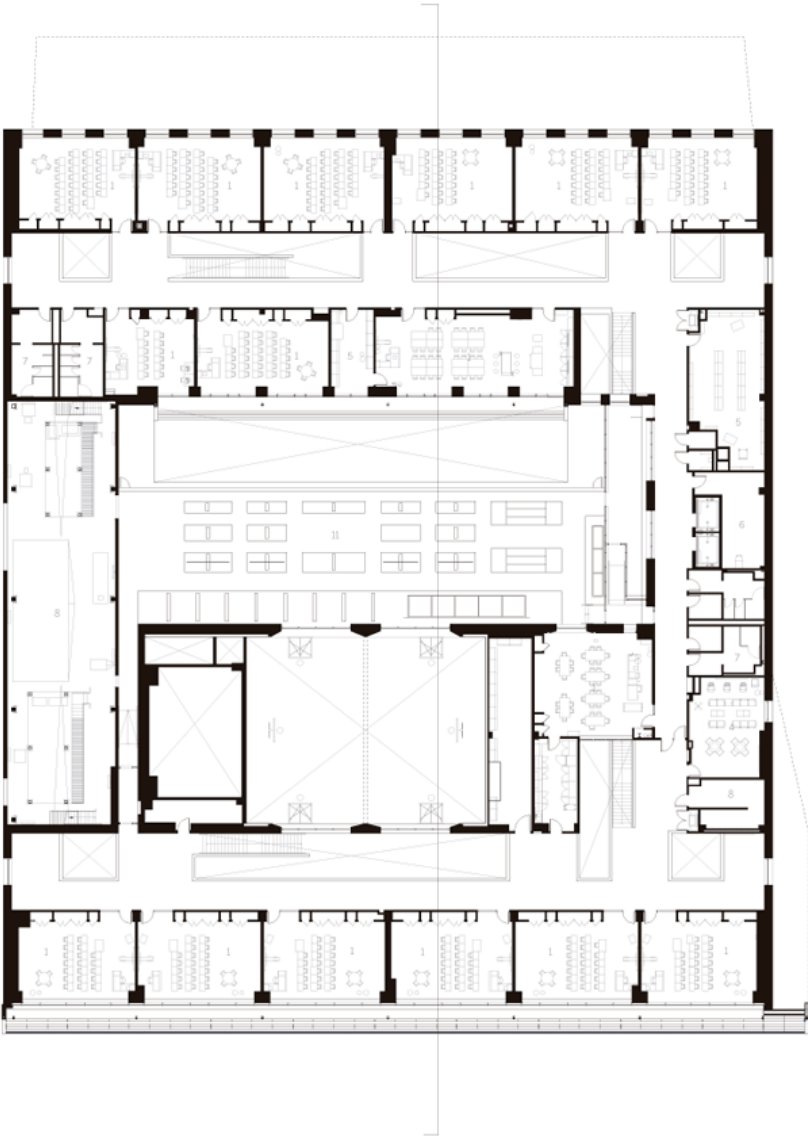
PROJECT NAME  
PS.62 NET ZERO  
ENERGY SCHOOL

LOCATION  
STATEN ISLAND, NEW YORK

DRAWING NAME  
SECOND FLOOR PLAN

PHASE SUBMITTED  
COMPLETED 2015

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



Plans



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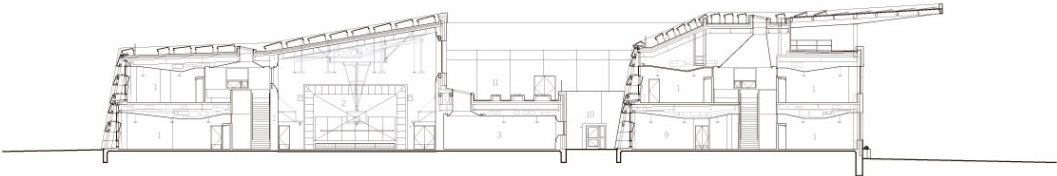
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PROJECT NAME  
PS.62 NET ZERO  
ENERGY SCHOOL

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 MUP
  - 9 LIBRARY
  - 10 COURTYARD
  - 11 GARDEN



0 5 10 20 40

North South Section

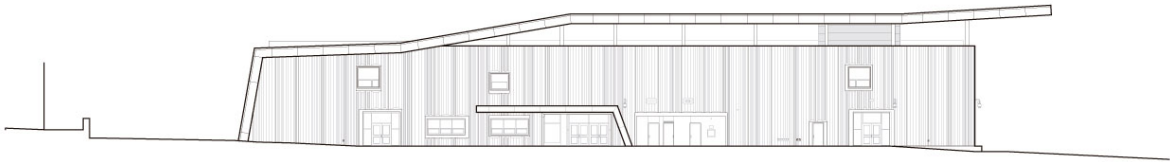
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PROJECT NAME  
PS.62 NET ZERO  
ENERGY SCHOOL

DRAWING NAME  
EAST ELEVATION

PHASE SUBMITTED  
COMPLETED 2015



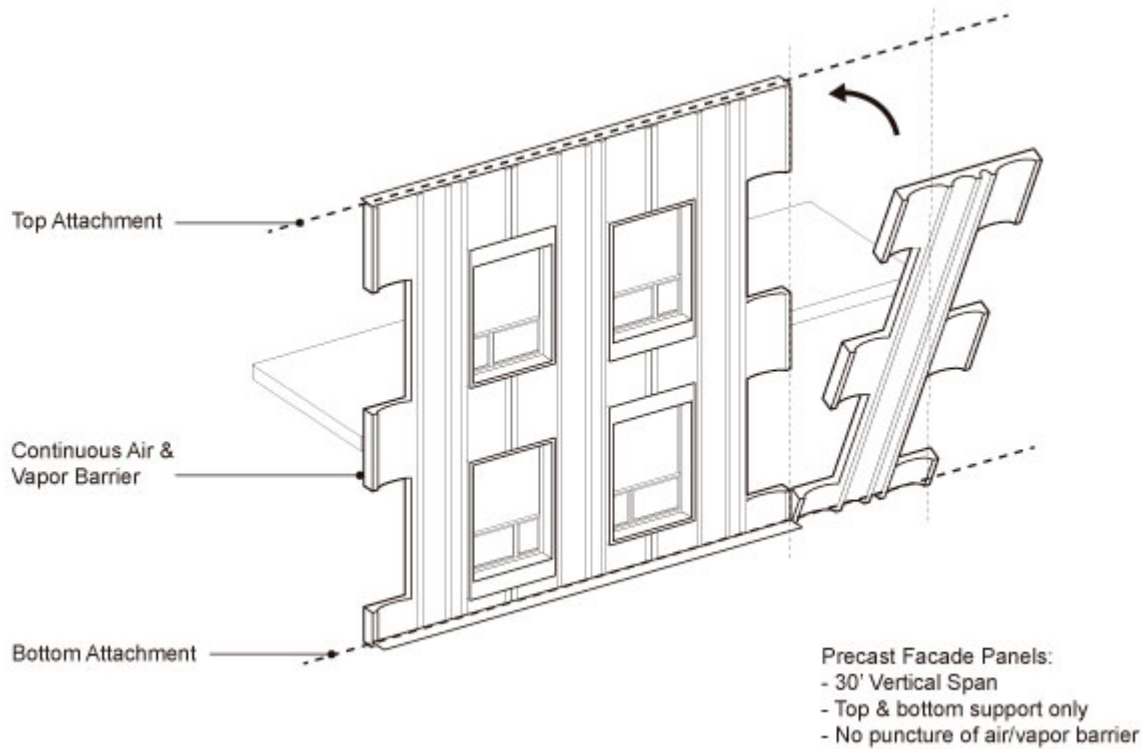
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East Elevation



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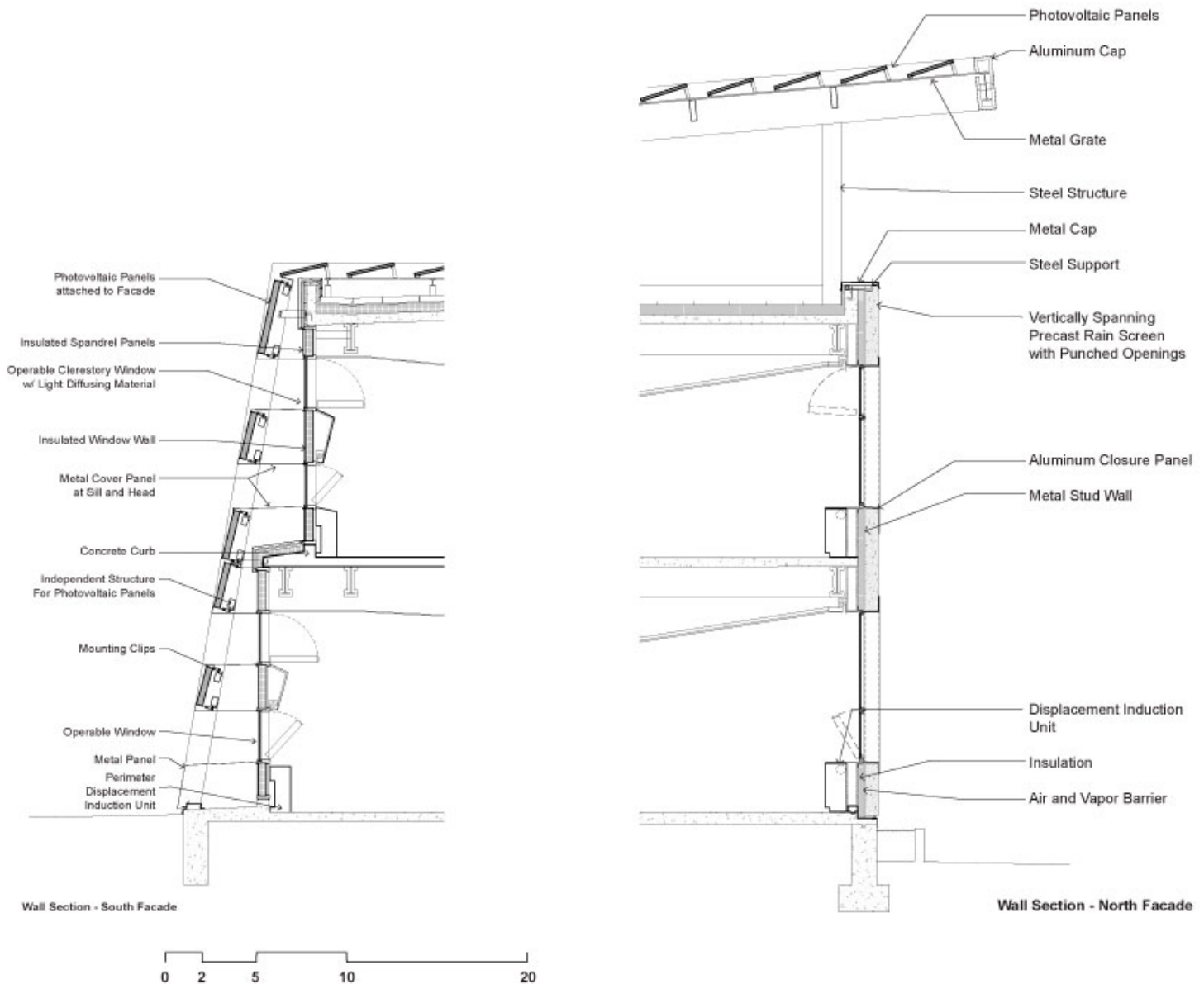
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**Precast Diagram**

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## Wall Sections

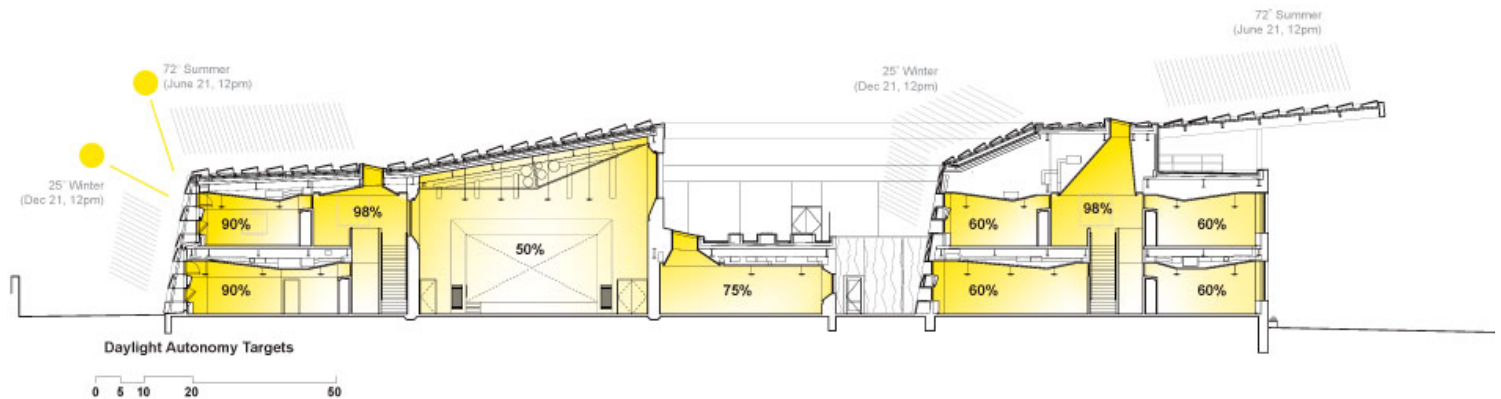
SOM optimized the orientation and massing of the courtyard-shaped building to take advantage of sunlight for both ample daylighting and photovoltaic arrays on the roof and south facade. Other sustainable and low-energy features incorporated in the design include an ultra-tight high-



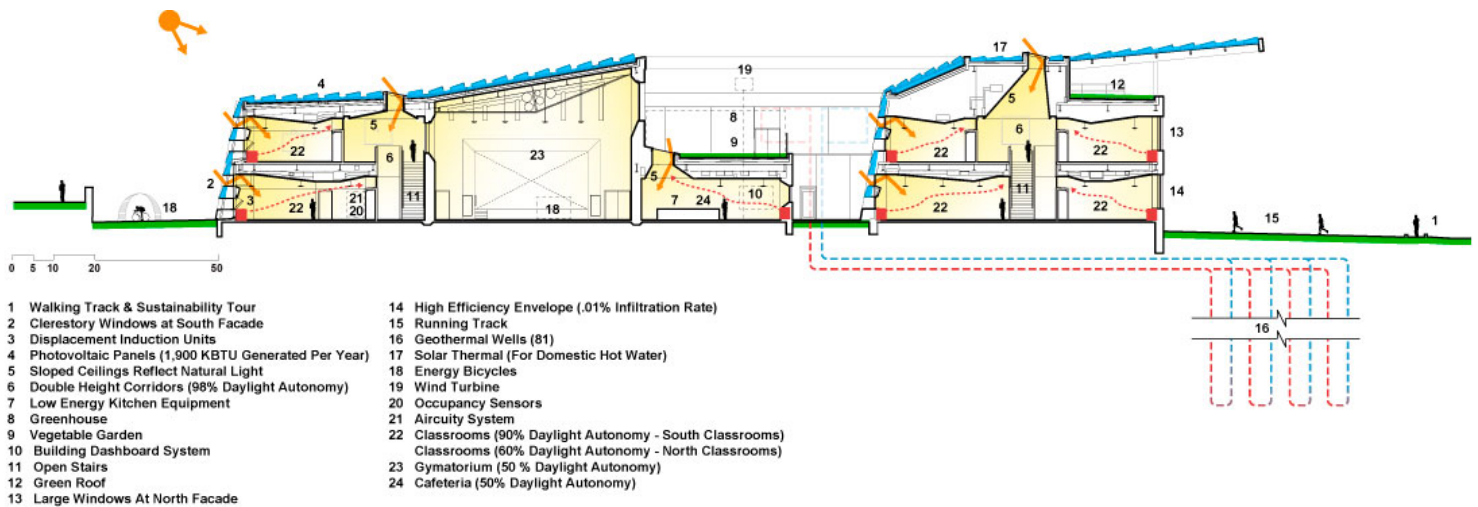
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performance building envelope, daylit offset corridors, energy-efficient lighting fixtures, low-energy kitchen equipment, a greenhouse and vegetable garden, a geo-exchange system, energy recovery ventilators and demand-control ventilation, and a solar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



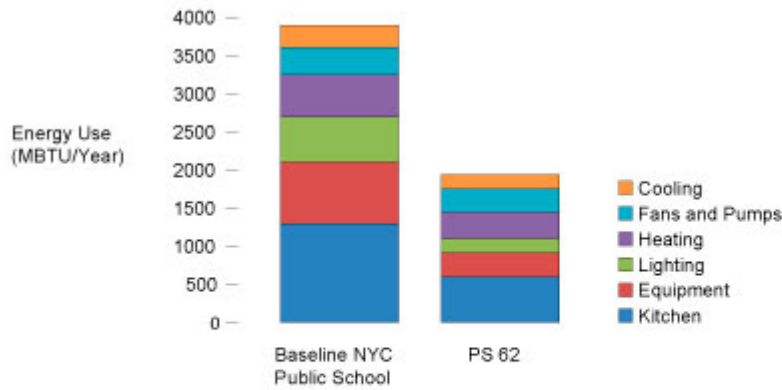
**Daylight Section**



**Sustainability Section**

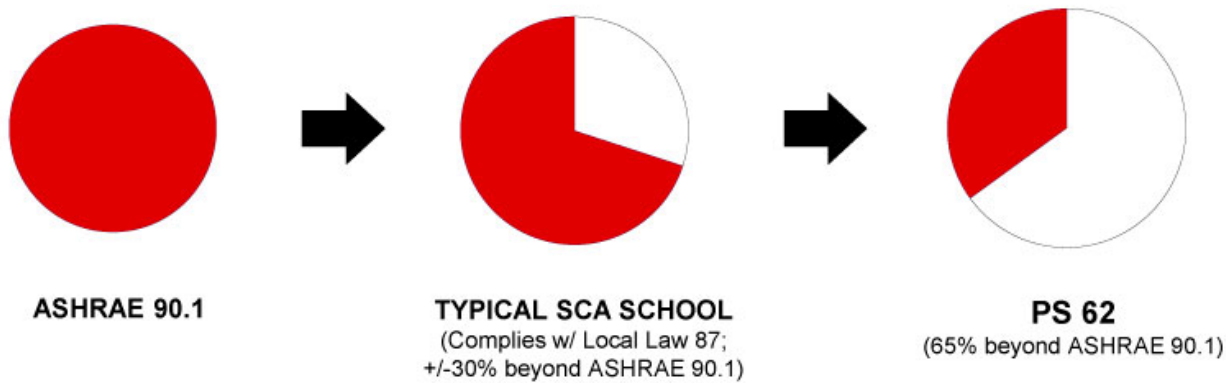
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Information depicted is based on design analysis, preliminary in nature, and will need to be verified through the course of the building's operation.

## Energy Data Chart

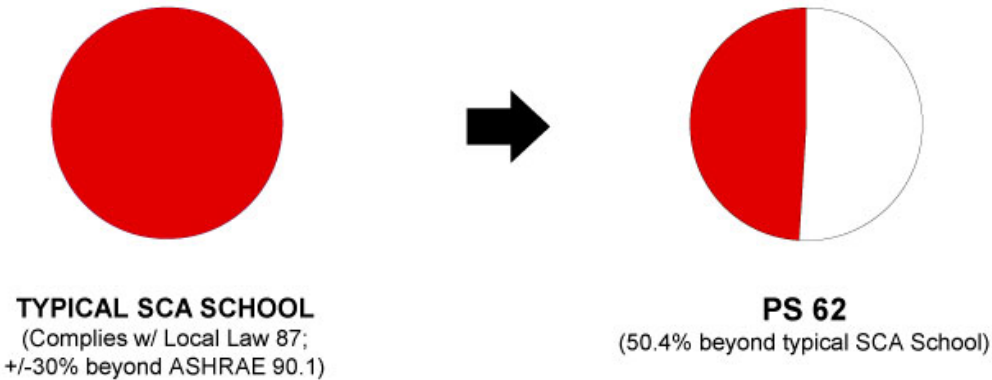


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 ENERGY USE

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ENERGY USE

## Comparative Energy Use



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