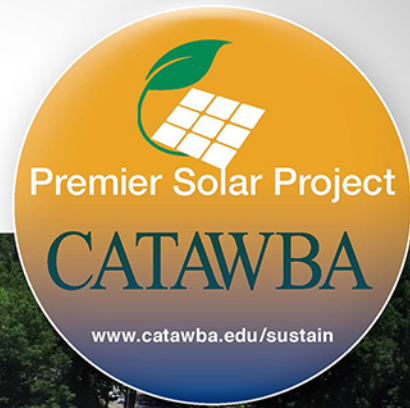




# Sustainable CATAWBA





Catawba Solar

## Abernethy Physical Education Center

### Solar elements include:

-  (1152) 327-watt solar panels
-  Produces an estimated 531,671 kWh per year

### Other sustainable elements include:

-  Solar panels on roof provide domestic hot water for the building
-  Energy efficient gas and electric heat pump system

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The installation includes solar electric systems, solar water heating systems, campus-wide water fixture replacements and extra roof insulation. This is projected to save the college nearly \$5 million over the next 20 years and more than \$11 million over 30 years. It is uncommon for systems to be mounted on existing rooftops and parking lots, as Catawba's is. More often, the projects are installed on large field areas. Catawba's project is significant because it doesn't take up additional land resources.

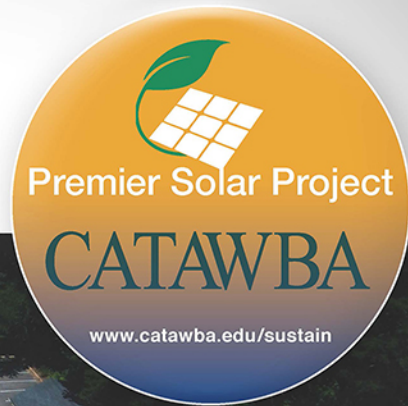
In addition to the building above, below are eight other buildings on campus that incorporate solar elements.



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Photo credit: James Poo



# Sustainable CATAWBA



## Corriher-Linn-Black Library

Catawba Solar

### Solar elements include:

-  (120) 275 watt solar panels
-  Estimated electric production 31,550 kWh

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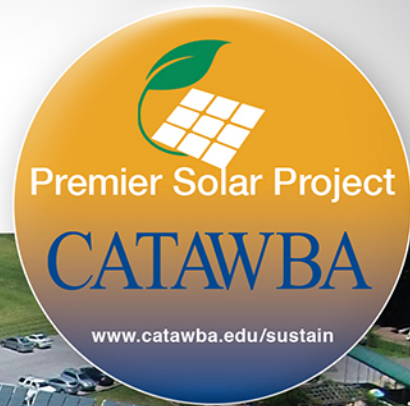
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Photo credit: James Poe



# Sustainable CATAWBA




## Hayes Field House

Catawba Solar

### Solar elements include:

-  (792) 327 watt solar panels
-  Produces 365,259 kWh per year

### Other sustainable elements include:

-  Geothermal heating and cooling Runoff water from the geothermal system is captured in a 20,000 gallon storage tank and used to irrigate all of the college's athletic fields, approximately 30 acres.

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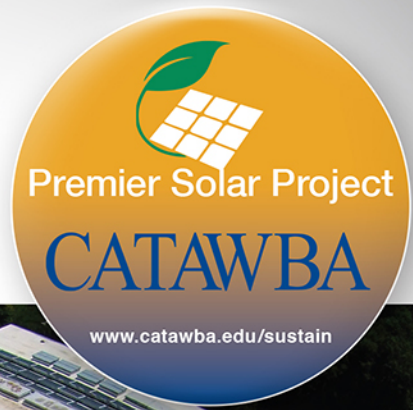
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Photo credit: James Poe

# Sustainable CATAWBA



## Robertson College-Community Center

Catawba Solar

### Solar elements include:

-  (240) 275-watt solar panels
-  Estimated annual electric production 90,956 kWh

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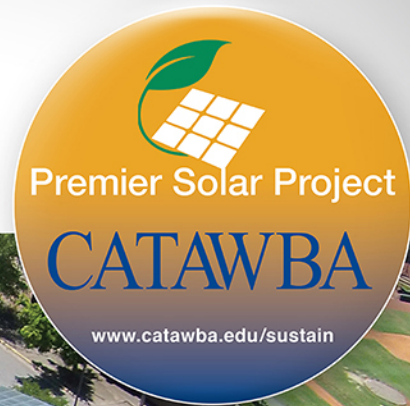
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# Sustainable CATAWBA



## Shuford Stadium Parking Canopy

Catawba Solar

### Solar elements include:

-  (480) 327 watt solar panels
-  Produces 221,412 kWh per year

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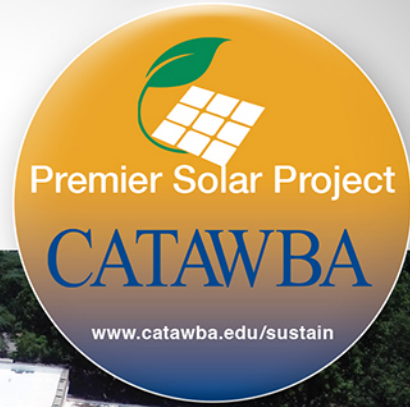
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# Sustainable CATAWBA



## Stanback Residence Hall

### Solar elements include:

-  (80) 275 watt solar panels
-  Estimated annual electric production 27,465 kWh

### Other sustainable elements include:

-  LED lighting
-  Water saving elements
-  Geothermal heating and cooling

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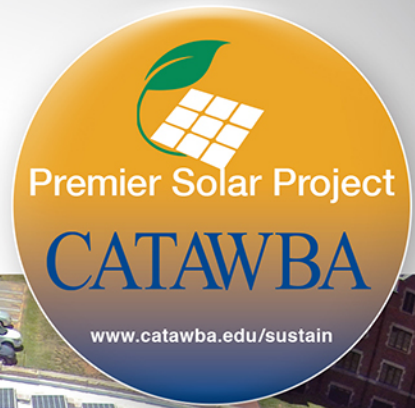


Photo credit: James Poe

Catawba Solar

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# Sustainable CATAWBA




## Williams Music Building

Catawba Solar

### Solar elements include:

-  (60) 275 watt solar panels
-  Estimated annual electric production 15,685 kWh

### Other sustainable elements include:

-  Geothermal heating and cooling

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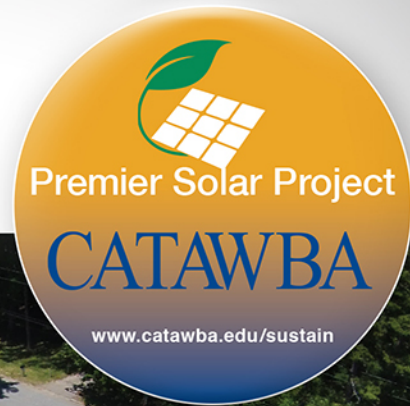
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# Sustainable CATAWBA



## Woodson Residence Hall

Catawba Solar

### Solar elements include:

-  (120) 275 watt solar panels
-  Estimated annual electric production 36,387 kWh

### Other sustainable elements include:

-  Geothermal heating and cooling

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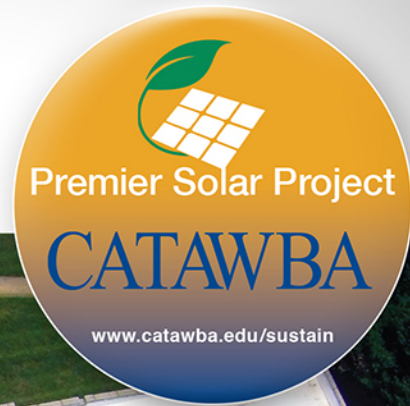


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# Sustainable CATAWBA



## Barger-Zartman Residence Hall

Catawba Solar

### Solar elements include:



Solar hot water panels

### Other sustainable elements include:



Water saving elements



LED lighting

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