



Welcome

Madison G.O. Solar Project

October 21, 2016



Madison G.O. Solar Project



Parking Canopies

- Quantity: 5
- 120 kW total capacity
- 163,299 kWh/yr (estimated)
- Another application for solar install



Industry Structures

- Quantity: 5
- 2 kW each
- South facing
- 15° tilt angles
- 12,673 kWh/yr (estimated)



Solar Café Tables

- Quantity: 2
- Power Outlets
- LED Lights

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Rooftop Solar

- 9 different panels
- 8 different manufacturers
- 3 different technologies
- 95 kW total capacity
- 117,507 kWh/yr (estimated)



Solar Lab

- Quantity: 5
- 3 kW each
- Several different tilt angles and orientations for comparison
- 20,613 kWh/yr (estimated)

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Curve Structures

- Quantity: 5
- 1.5 kW each
- South facing
- 34° tilt angle
- 9,947 kWh/yr
- (estimated)



Lift Structures

- Quantity: 4
- 3 kW each
- 35° tilt
- East, West & South Facing
- 14,302 kWh/yr
- (estimated)



Trestle Structures

- Quantity: 9
- 4 kW each
- South facing
- 5° & 10° tilt angles
- 49,394 kWh/yr
- (estimated)

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Electric Vehicle Charging

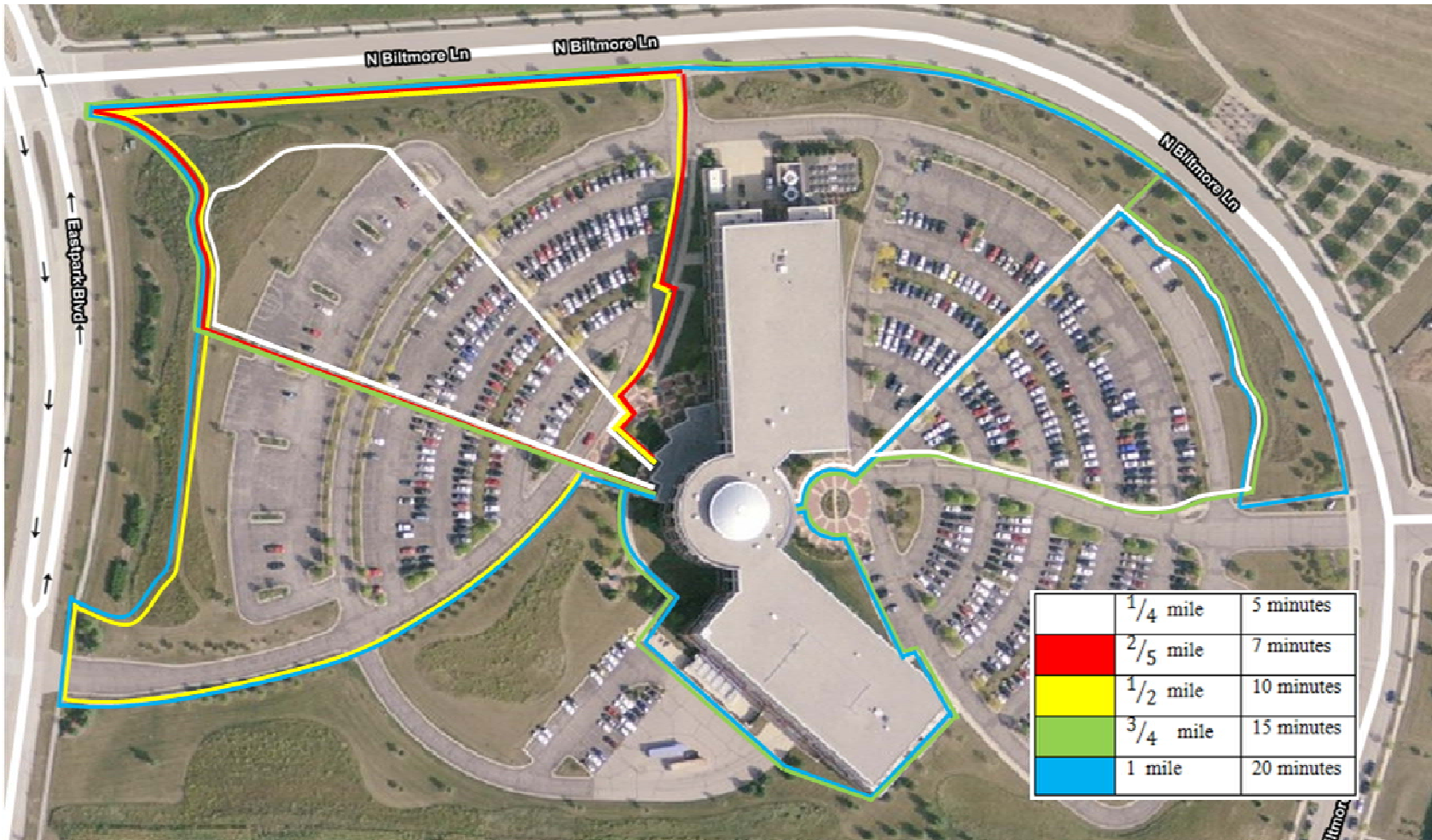
- 13 stations
- Open to staff and the public

Battery Energy Storage System

- Quantity: 1
- 30 kWh capacity
- Investigating and demonstrating different applications (initial studies include – site demand reduction, solar firming & peak reduction.



Walking paths



Hard copies of the Walking Paths map are available on The Compass.

Solar Project energy generation

RESULTS

392,390 kWh per Year *

Month	Solar Radiation (kWh / m ² / day)	AC Energy (kWh)
January	2.60	21,640
February	3.68	27,068
March	4.21	33,385
April	4.86	35,694
May	6.11	44,858
June	6.43	44,367
July	6.37	44,571
August	6.07	42,988
September	4.63	32,742
October	3.65	27,394
November	2.45	18,666
December	2.33	19,017
Annual	4.45	392,390

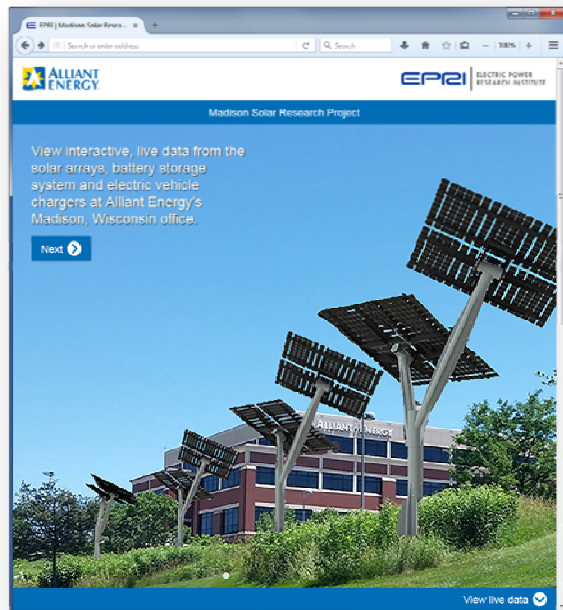
Location and Station Identification

Requested Location	madison, Wisconsin
Weather Data Source	(TMY2) MADISON, WI 5.3 mi
Latitude	43.13° N
Longitude	89.33° W

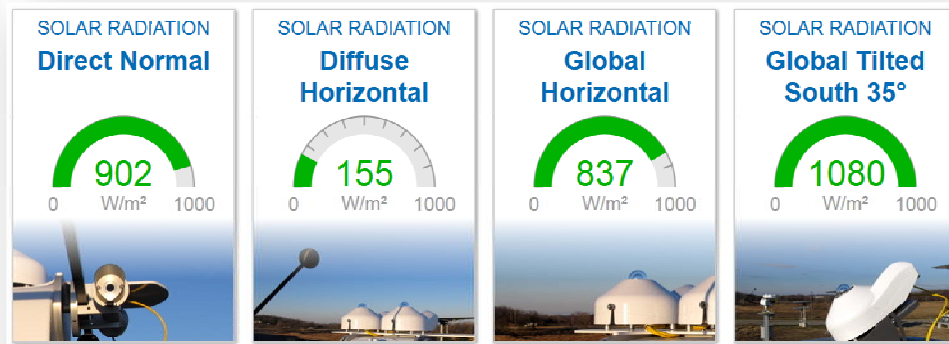
Madison Solar Project yearly energy generation

Enough energy
to power
approximately
45 homes!

Solar Project energy data



Our solar dashboard will provide real-time and historic energy generation data from the Solar Project.



Q & A

