



# Michigan Solar Solutions

*"The Solution Rises Every Morning"*

## EATON COUNTY SOLAR PROJECT

## CASE STUDY



### SUMMARY

In 2022 MSS supported Eaton County and Johnson Controls with four solar photovoltaic installations as part of a larger energy retrofit of Eaton County's municipal campus in Charlotte Michigan. Driven by ARPA funds and an Energy Performance contract the County sought to modernize buildings, improve budget flexibility, and drive employee satisfaction.

At each site a data logging system, revenue grade meter and weather station were installed to give ownership visibility in real time performance metrics of the systems. The carports cover 180 parking spots primarily used by county employees. Under the carports are lights to maintain parking lot safety and visibility – MSS was diligent to mount AC combiners at the canopies to allow for easy install of future EV chargers.

### SAVINGS

\$6.5M+ Over 30-year system life  
\*4% utility escalator\*

### SYSTEM SIZES

Courthouse

- 195.2 KW DC / 130 AC Rooftop

Juvenile Facility

- 221.4 KW DC / 150 AC Ground Mount

Health Department

- 221.4 KW DC / 150 AC Carport T Frame

County Jail

- 442.8 KW DC / 300 AC Carport Y Frame

### DESIGN

10-degree ballast (rooftop)

7-degree Y & T Frame (carport w/  
steel decking)

30-degree Beam Driven (ground  
mount)

### SOLAR OFFSET

30%

### PTO MONTH

January 2023

### PARTNERS

Mid-America Solar, McNaughton-McKay, Speer Electric, Johnson Controls, Consumers Energy

