



CASE STUDY: LEWIS AND CLARK COMMUNITY COLLEGE

GRP|WEGMAN's Electrical Division has a long-lasting relationship with Lewis and Clark Community College and has done multiple phases of solar projects and assisted with sustainability within their facilities.

GRP|WEGMAN was a successful bidder on the following projects:

- Trimpe Building rooftop panels
- Trimpe Building tracking arrays
- NGRREC tracking arrays
- Scott Bibb Center rooftop panels.

PROJECT SCOPE

GRP|WEGMAN furnished and installed the rooftop solar panels at the Trimpe building.

We furnished and installed the 2 trackers at the Trimpe building. These required concrete bases to support the size of the arrays, along with an extensive metal base and hydraulic motor. These arrays track the sun during the day and at night basically shutdown, lie flat, and wake up in the morning. These have a built-in anemometer that will protect the tracker and lay them flat during high wind conditions.

We furnished and installed the 8 trackers at the NGRREC facility. These required deep concrete bases to support the size of the arrays, due to the proximity of the Mississippi river, these bases were approximately 18ft deep and the use of a hydro-vac truck performed this task. The structure was comprised of an extensive metal base and hydraulic motor. These arrays track the sun during the day and at night basically shutdown, lie flat, and wake up in the morning. These have a built-in anemometer that will protect the tracker and lay them flat during high wind conditions.

Scott Bibb rooftop solar panels were installed in the summer of 2020. This system was a standard flat rubber membrane roof installed with a series of concrete ballast blocks. This system was a 12kw system.

RESULTS & IMPACT

All these projects had their challenges, mainly the tracking arrays. This was the first time that we had installed anything like this prior. The NGRREC solar tracking arrays opened a unique challenge, the design of these were placed in the area that was used as the concrete batch plant when the nearby lock and dam was constructed years earlier. LCCC has their own dashboard that they use to monitor usage, this was connected to there network by us and the software by a third party.

“At Lewis and Clark Community College, we pride ourselves in being a leader in advancing renewable and alternative energy technologies in our community, and GRP/WEGMAN has been right there with us, partnering on such successful projects as Electric Vehicle Charge Stations and Solar Array installations.”

Nate Keener Director if Sustainability
Lewis and Clark Community College