

# Delaware Advancement Corporation

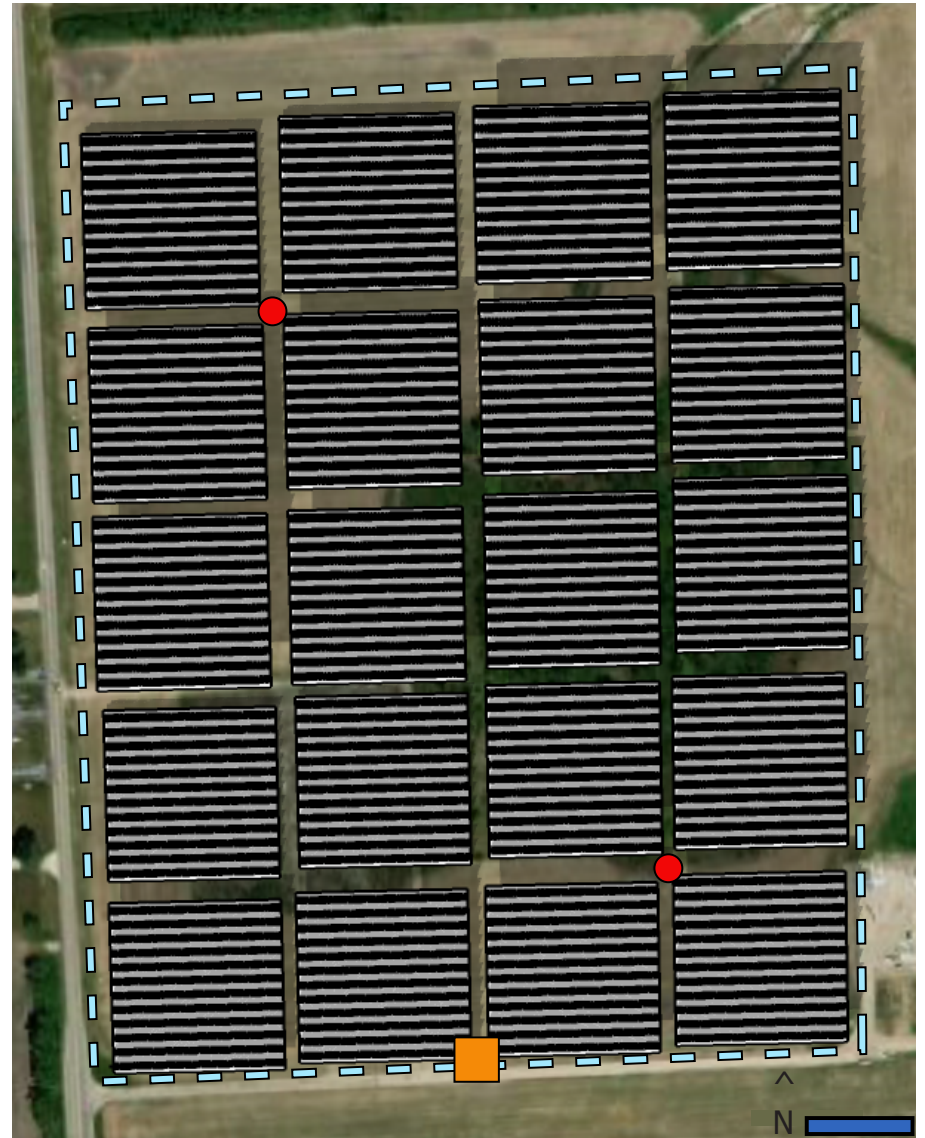
By: Lauren Doppke

## Proposal Narrative:

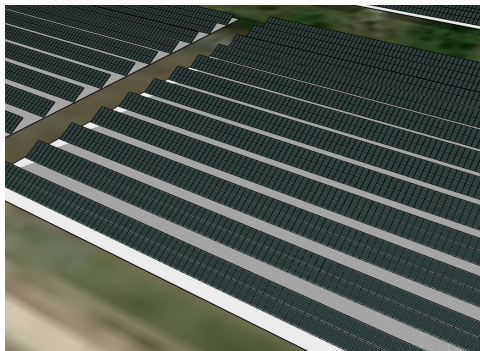
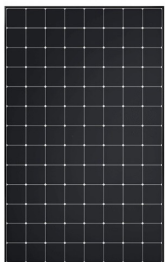
The site as a whole is 98 acres, with a road dividing part of the site up that accesses a substation close by. With the solar panel layout, to make it most efficient to access and produce power, it only takes up 50 acres. When visiting the Kokomo solar farm, a key importance that was a part of their site was access roads. I wanted to use a good amount of space for panels but also have a great abundance of access roads to reach panels. This grid pattern was able to fit in both of what I wanted for this site and still was able to produce 52,157,928 kWh/year.

With the design, there would be 50 acres of solar panels, which requires two transformers to be a part of the plan. The location of the solar farm itself is great for the city of Muncie, there is a substation that is owned by Indiana Michigan Power which is the provider for the city already. Connecting this solar farm to the grid would be an easy task for Indiana Michigan power company.

The amount of energy that can be produced here would help lowering the cost of electricity for houses all around Muncie, and for other towns nearby.







SunPower: SPR-400-WHT  
Two panels stacked vertically



**Info:**  
 Acreage: 50 acres of solare panels  
 Site annual energy capacity: 52,157,928 kWh/year  
 Equivalencies from PVWatts Calc:  
 4,451 houses energy usage per year  
 4.4 billion phone charged  
 8,039 cars driven for one year

**Ledgend:**

-  Fence
-  Entrance
-  Transformer
-  Scalebar