

Winkelman Solar Developers (David Winkelman)

Hi.

Look at the WWTF for East Gull Lake city (South Plant) and see the solar array helping power the plant. It's a novel approach that has many benefits. I am happy to provide more information or a bid on this.

Solar on Septic Concept



The idea to incorporate solar on septic came from several projects that Winkelman Solar Developers are doing in central Minnesota. The basic tenants of the concept are:

1. Municipal waste water treatment plants (WWTP) are more efficient in reducing pollution than individual septic drain fields on homes around lakes and rivers.
2. Cleaning waste water consumes a lot of electrical energy to power the pumps and aerators serving the municipal waste lagoons.
3. Waste lagoons generally have open space around them to provide the open sunshine needed for solar.
4. Solar will significantly reduce the electricity used by the WWTP.
5. The sun shines during the day when electricity costs the most.
6. Solar also reduces the pollution from traditional electricity generation.
7. The public needs education about the above.
8. There are MN grants for solar on public buildings and WWTPs do qualify for them.

For the city of East Gull Lake, the solar is installed on the ground with a chain link fence around it to prevent vandalism. The chain link fence can hold kiosk type signage and QR codes to educate the public who visit the site. The site also features a large area for recycling solid waste and compost. Hundreds of people use the site for recycling each month.

See below for a photo of the site.

