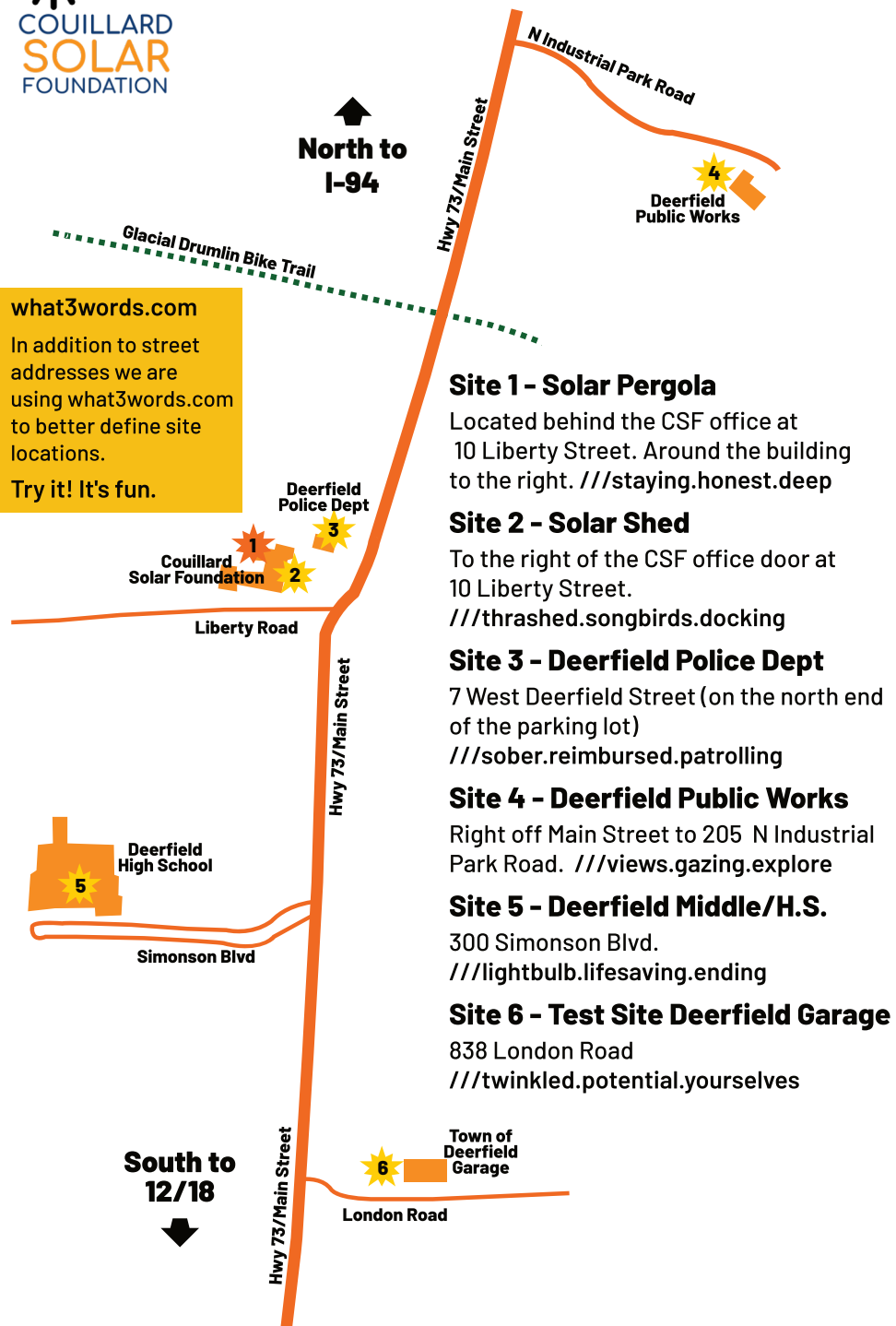




# Deerfield Solar Tour Map

**what3words.com**  
 In addition to street addresses we are using what3words.com to better define site locations.  
 Try it! It's fun.




- Site 1 - Solar Pergola**  
 Located behind the CSF office at 10 Liberty Street. Around the building to the right. *///staying.honest.deep*
- Site 2 - Solar Shed**  
 To the right of the CSF office door at 10 Liberty Street. *///thrashed.songbirds.docking*
- Site 3 - Deerfield Police Dept**  
 7 West Deerfield Street (on the north end of the parking lot) *///sober.reimbursed.patrolling*
- Site 4 - Deerfield Public Works**  
 Right off Main Street to 205 N Industrial Park Road. *///views.gazing.explore*
- Site 5 - Deerfield Middle/H.S.**  
 300 Simonson Blvd. *///lightbulb.lifesaving.ending*
- Site 6 - Test Site Deerfield Garage**  
 838 London Road *///twinkled.potential.yourselves*

# Deerfield Solar Tour Site Information

Deerfield is a community of almost 3000 people in Dane County, just south of Wisconsin's capitol, Madison. Cal Couillard, founder of the Couillard Solar Foundation and a long time resident of Deerfield, had a vision for his community. Since the first solar array, installed at the Deerfield Middle-High School, Cal has donated almost 6 mega-watts of solar to the village, and has installed an additional 14.7 kW in arrays around Deerfield, with more planned.

- Site 1 - Solar Pergola**  
**Installed Summer 2020 - 15 kW - Powers the Barbershop in Liberty Commons**  
**Installer: Cris Folk**  
 This solar pergola is the prototype for a new kind of solar structure. It is designed for beauty as well as function, and can be used in residential, business or community projects. It uses 36 bifacial solar panels, which use albedo, or reflected light to begin charging from early morning until well into the afternoon.
- Site 2 - Solar Shed**  
**Installed 2019 - 4 kW - Off grid - battery storage and EV charging station**  
 The corrugated aluminum at the side of the shed reflects additional light onto the panels, increasing the overall solar production.
- Site 3 - Deerfield Police Dept**  
**Installed Fall 2021 - 15 kW now (will be 20 kW) - Will power the police department**  
 Notice the different types of panels on the roof. The top row contains 7 mono-facial panels (solar cells on 1 side), 27 bifacial (solar cells on the front and back) 370W panels w/ silver frames (top, middle row right and on the lower roof on the left) and 12 bifacial 445W panels with black frames. The array will help us test the effectiveness of bifacial panels flush-mounted to a light color roof.
- Site 4 - Deerfield Public Works**  
**Installed March 2019 - 180 kW - Powers the village's waste treatment plant**  
**Installer: Arch Electric**  
 These 600 monofacial panels are constructed as a ground-mount array. Underneath the array native plants are allowed to grow.
- Site 5 - Deerfield Middle/H.S.**  
**Installed February 2019 - 360 kW - Supplies about 25% of the school's energy needs**  
**Installer: Arch Electric**  
 This half a mega-watt solar system produced approximately 25% of the school's energy needs. The solar monitoring system associated with the array can be used to develop energy curriculum for Deerfield students.
- Site 6 - Test Site - Deerfield Garage**  
**Installed June 2020 - two 3.7 kW arrays - Powers the village garage**  
 These two arrays are a side-by-side test site designed to compare the output of bifacial vs. mono-facial arrays. Be sure to look at the inverters on the garage wall to compare the output of the two arrays to each other.



Use this QR code to see more information about the Deerfield mini solar tour and the Couillard Solar Foundation. Or go to [CouillardSolarFoundation.org](https://CouillardSolarFoundation.org).

