



Solar Power

David Willems, P.E.

Why Solar Power?

- Renewable energy source
- Environmentally friendly
- Abundant sun in SW Florida
- Costs have come down
- Cost offset by energy savings
- Relatively low maintenance cost
- Potential to partner with FPL



Options

1. Solar Street Lights
2. Solar Roof Panels
3. Solar Shade Structures

Solar Powered Street Lights

Advantages

- Compared to traditional street lights, no underground wiring required (less disturbed area – underground cost savings)
- Addition to a structure already desired
- No power bill (potential cost savings)

Disadvantages

- Increased wind load due to panels (higher pole and footer costs)
- Requires battery for storage (additional construction & replacement cost)
- Distributed solar panels, may be less cost effective
- Cleaning solar panel more difficult



Solar Roof Panels

- Advantages
 - Potential to partner with FPL
 - Widely used
 - Absorbs heat that would otherwise be transferred to building
 - Uses existing space for power generation
- Disadvantages
 - High cost
 - Building alignment can make panels inefficient
 - Village owns no buildings, would need to advocate



Solar Shade Structures

Advantages

- Potential to partner with FPL
- Widely used
- Provides secondary benefit of shade
- Ability to orient for efficiency

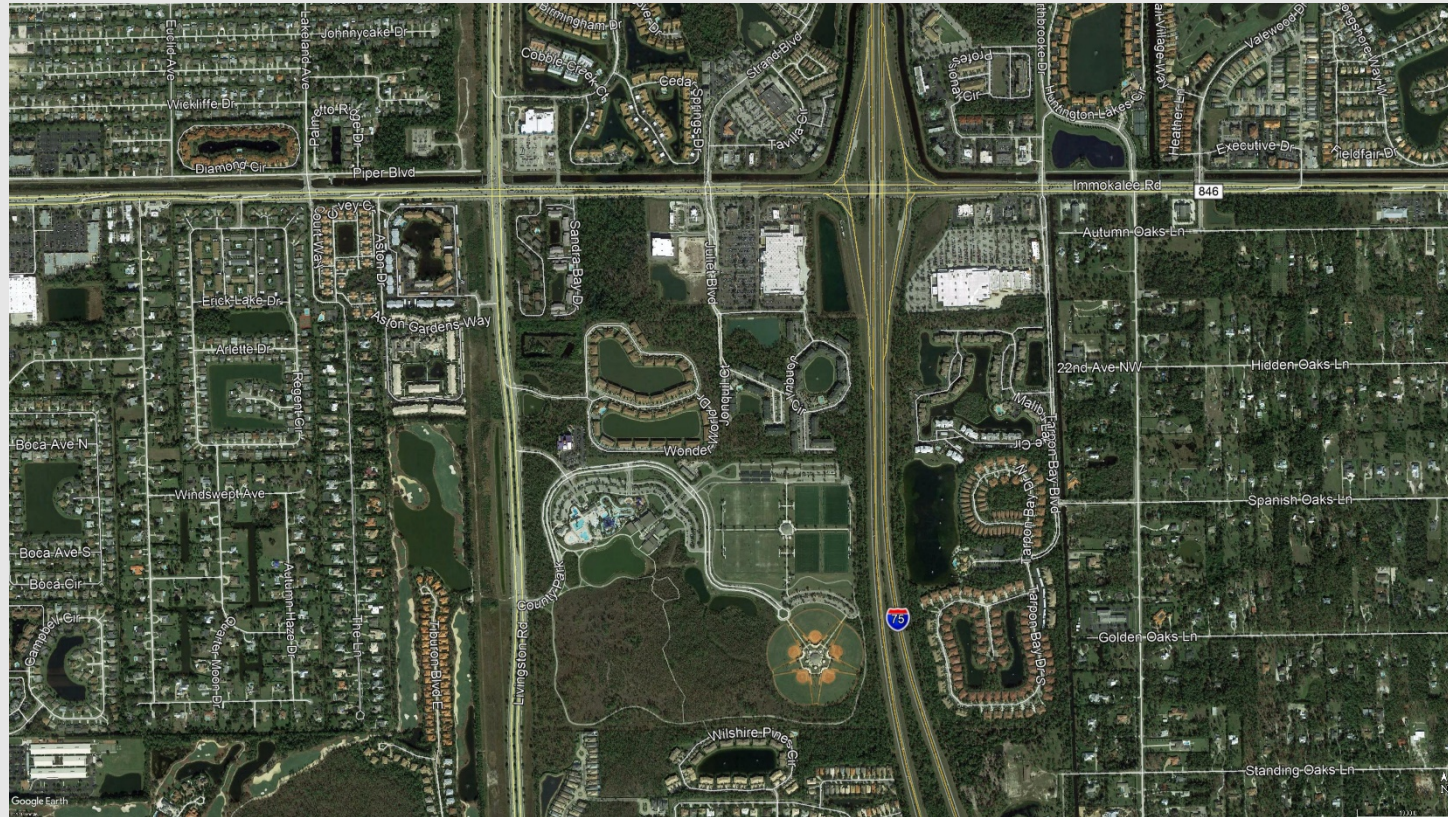
Disadvantages

- High cost (panels & structure)

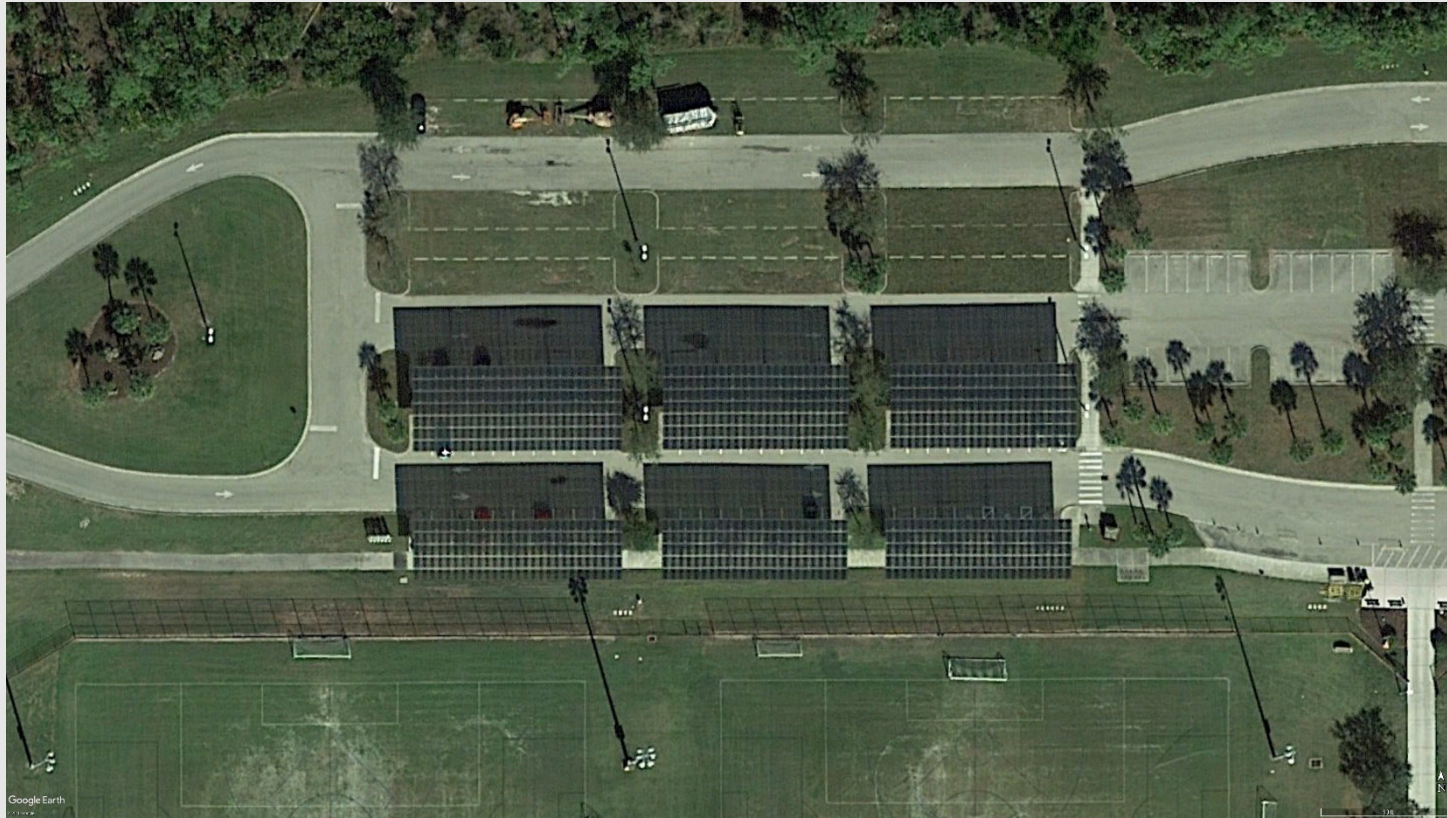


Solar Shade Structures

Collier County Example – North Collier Regional Park



Solar Shade Structures



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Questions?

