

PROJECT SIZE: 179 MWp

LOCATION: SOUTHEASTERN U.S.

LAND: 345 ACRES



# Solid Interconnect, Shrinking Land:

## What a 100 MW Project Could Look Like with Smarter Solar Design



### Challenge:

#### A high-stakes solar project on the line

A developer in the Southeast was closing in on a 100 MWac build with a valuable interconnection and hyperscaler offtake agreement. Then came the updated wetlands delineation—wiping out more than half their usable land and fracturing the previously contiguous site into small buildable sub-parcels. With millions already invested in permitting, environmental studies, and interconnection, the developer faced a tough choice: walk away and take a loss, or find a way to make the land work.

### Familiar risks:

#### Reduced buildable land

New environmental designations can dramatically reduce usable acreage.

#### Non-negotiable MW targets

Offtake agreements and interconnection timelines often leave no room to scale down.

#### No room to expand

Permitting limits and local resistance can block access to nearby parcels.

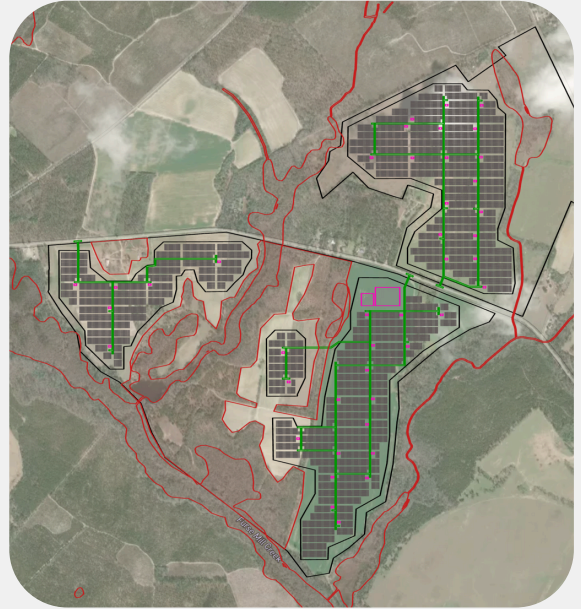
#### Tight timelines

Compressed schedules leave little margin for redesign or delay.

## Solution: Maximize every acre with smarter solar design

To model a viable path forward, Planted Solar designed a site layout using the same tools and principles we apply in the field every day—making the most of what is available without compromising output, budget, or schedule.

- **Compact, high-density racking** enabled 2x more energy per buildable acre, making the reduced site viable without sacrificing output.
- **Strategic site utilization** focused MW generation on the largest, most buildable parcels near the interconnect, minimizing trenching and cabling.
- **Lower-profile arrays** (just 3.5 feet tall vs. conventional 10 feet) helped reduce visual impact, simplify permitting, and improve community buy-in.
- **Rapid installation** paired with a streamlined design to maintain speed without adding risk in the field.



*This layout is a proposed design, but it reflects real constraints, real parameters, and real-world solutions we're deploying today.*

## Result: A fully viable project—on time and on budget

With smart design and efficient execution, developers facing similar challenges can still deliver full capacity, protect their investment, and avoid costly delays.

- **MW targets stay in reach** with high-density layouts that use land more efficiently
- **Sunk costs are protected** by adapting the site rather than expanding or restarting
- **Permitting gets easier** when lower-profile systems reduce visibility and impact
- **Costs come down** by minimizing cabling, trenching, and material needs
- **Timelines stay intact** with automated installations that reduce field uncertainty

These pressures, parameters, and performance gains are pulled straight from the field. With Planted Solar's high-density, terrain-following deployment, developers can turn constrained sites into efficient, resilient, and profitable solar assets.

## Make Every Acre Count with Planted Solar

Tight sites. Tough timelines. High stakes.  
When land is limited, smarter solar design opens up new possibilities.

**Let's Talk**