



**SUNPOWER™**  
THE WORLD'S STANDARD FOR SOLAR™

# SunPower – Murfreesboro Solar Farm

North Carolina Sustainable Energy Conference

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April 26, 2011

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# Agenda

- SunPower Overview
- Murfreesboro Solar Farm Overview
- SunPower Product/Technology for Murfreesboro Solar Farm
- Photo Gallery of SunPower Solar Farms in NC and the Southeast

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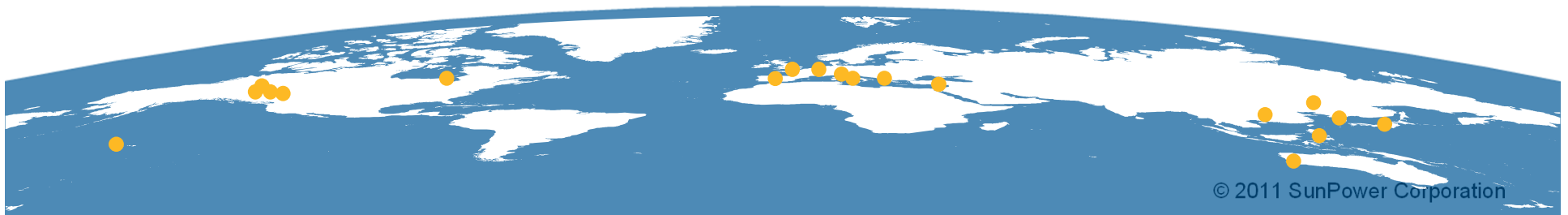
**SUNPOWER™**  
THE WORLD'S STANDARD FOR SOLAR™

The logo features the word 'SUNPOWER' in a bold, white, sans-serif font with a subtle glow effect on the 'O'. Below it, the tagline 'THE WORLD'S STANDARD FOR SOLAR™' is written in a smaller, white, sans-serif font. The background is a dark grey gradient with a grid of solar cell patterns. A vertical yellow bar is on the right side of the banner.

# SunPower Overview

# SunPower 2011

- World-leading solar conversion efficiency
- >2 GW solar PV deployed by year-end
- Diversified portfolio: roofs to power plants
- 5 GW power plant pipeline
- More than 140 patents
- >\$2.8 billion 2011 guided revenue
- 5,000+ Employees
- >825 MW guided 2011 cell production



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# Vertical Integration

Your Full-Service PV Power Plant Partner



SunPower offers single point of accountability



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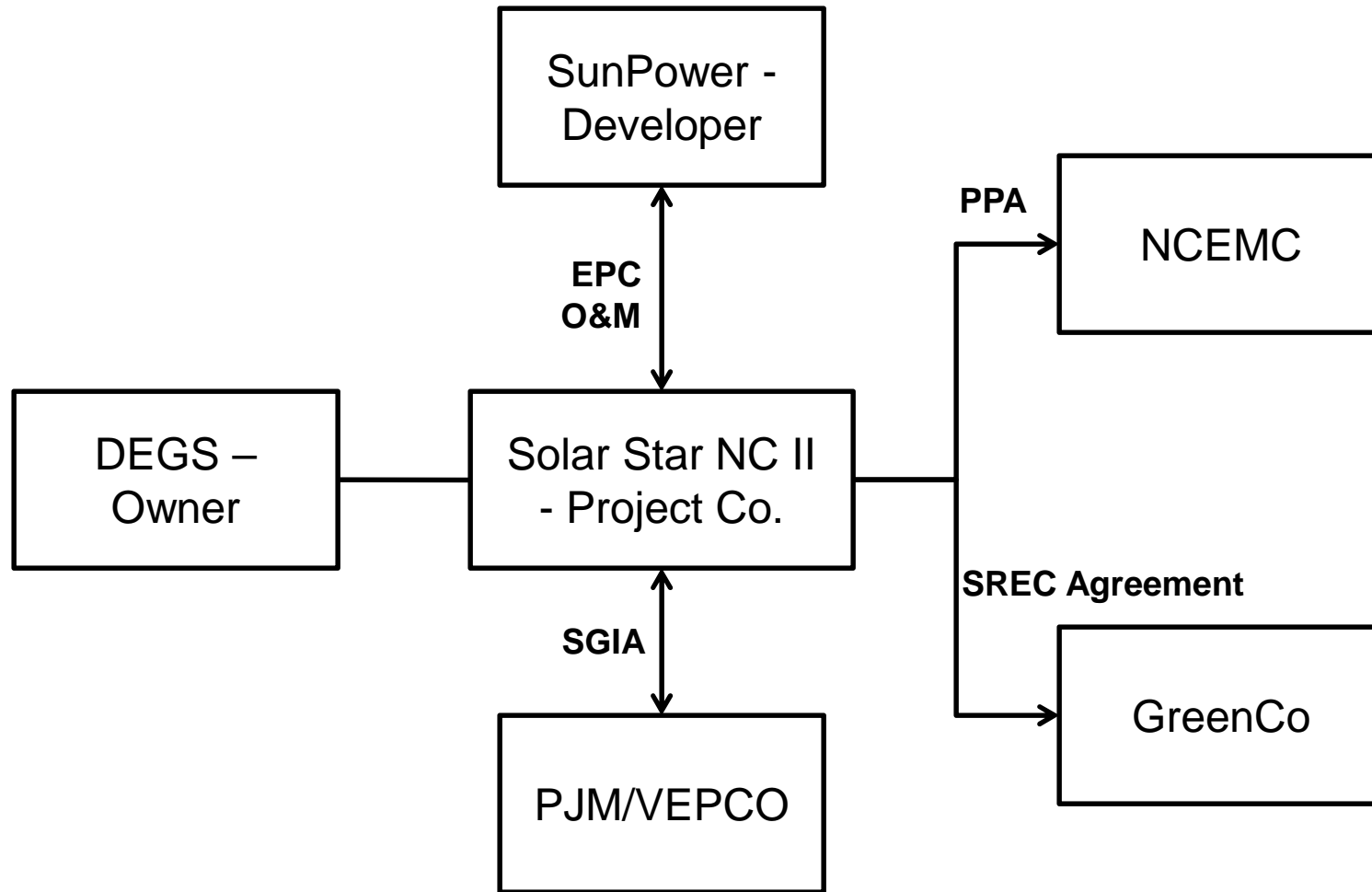
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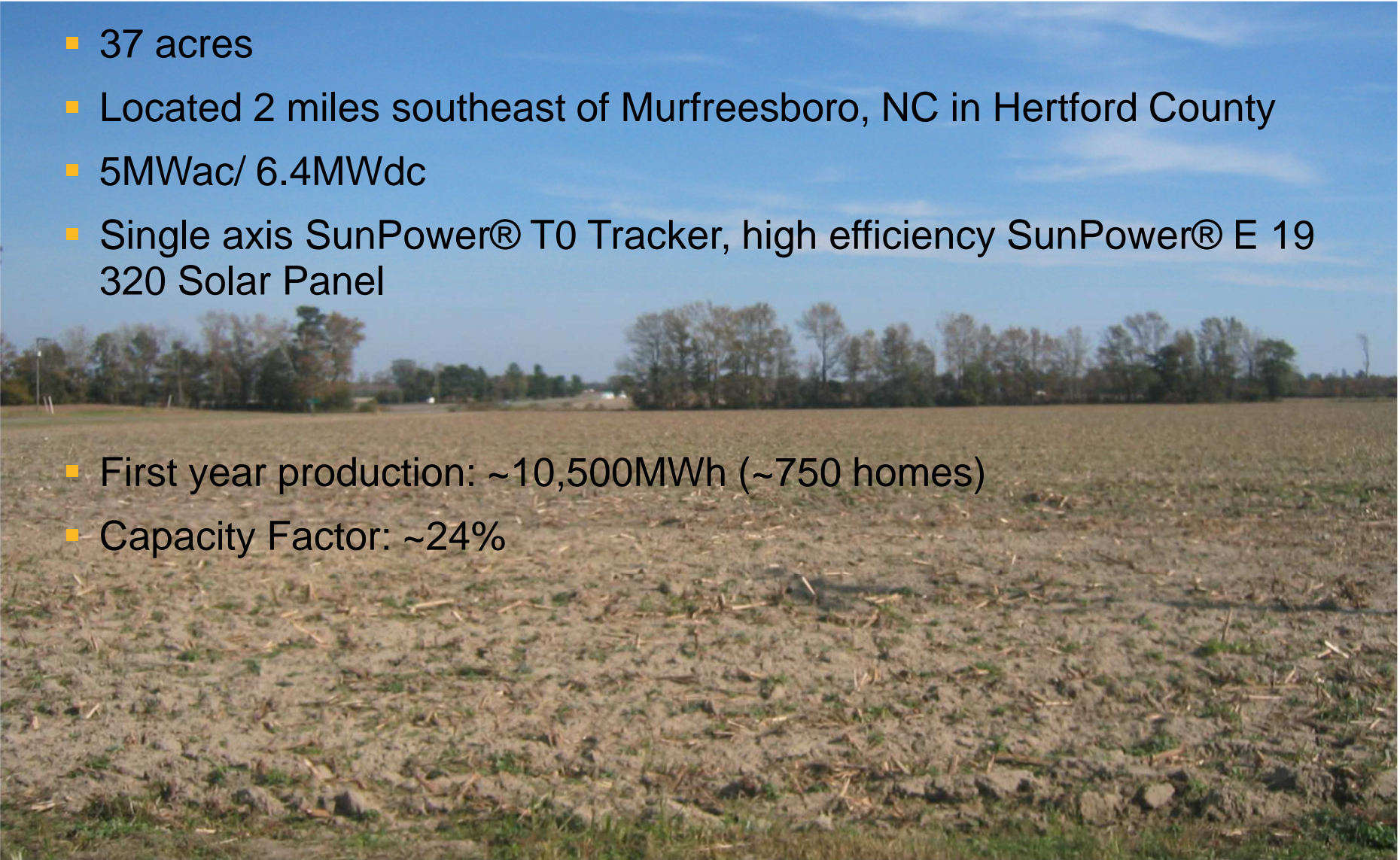
# Murfreesboro Solar Farm Overview

## 5MW

# Project Organization Chart



# Site Description

- 37 acres
  - Located 2 miles southeast of Murfreesboro, NC in Hertford County
  - 5MWac/ 6.4MWdc
  - Single axis SunPower® T0 Tracker, high efficiency SunPower® E 19 320 Solar Panel
- 
- First year production: ~10,500MWh (~750 homes)
  - Capacity Factor: ~24%

# Project Location

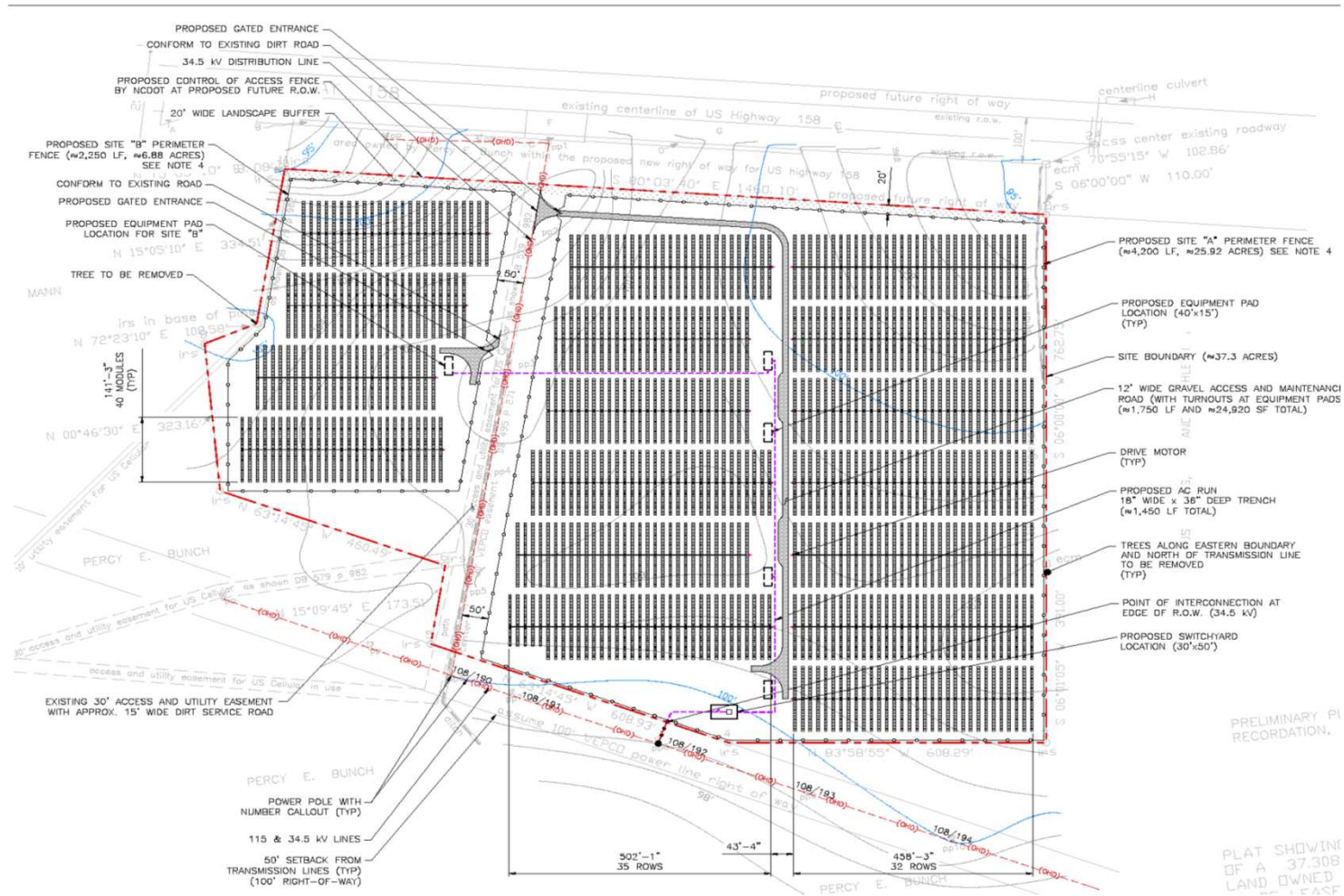


# Project Site



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# System Layout

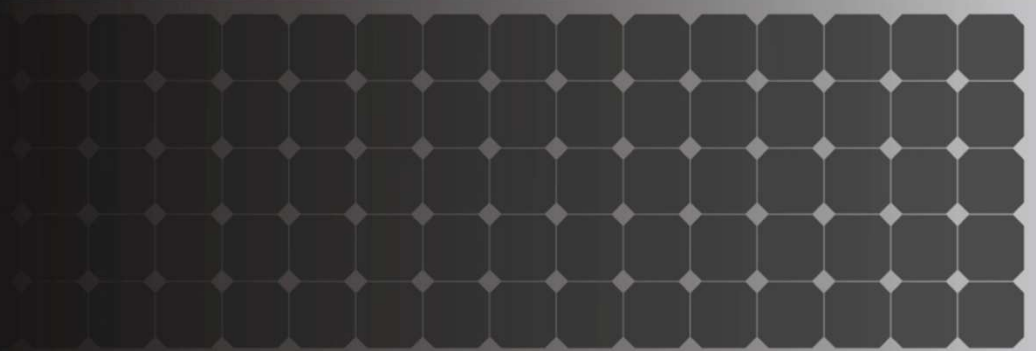


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# SunPower Product

# SunPower Produces the Most Energy per ft<sup>2</sup>



- 1 Cell efficiency: ~23%
- 2 No lines on cell surface lets in more light
- 3 No light induced degradation

# SunPower Panels



Most powerful PV panels on the market

- Module efficiency: ~19%
- Produce up to 50% more power than conventional panels and 100% more power than thin film panels per unit area
- Superb real-world performance in high temperature environments and low light conditions



# SunPower Single-Axis T0 Tracker



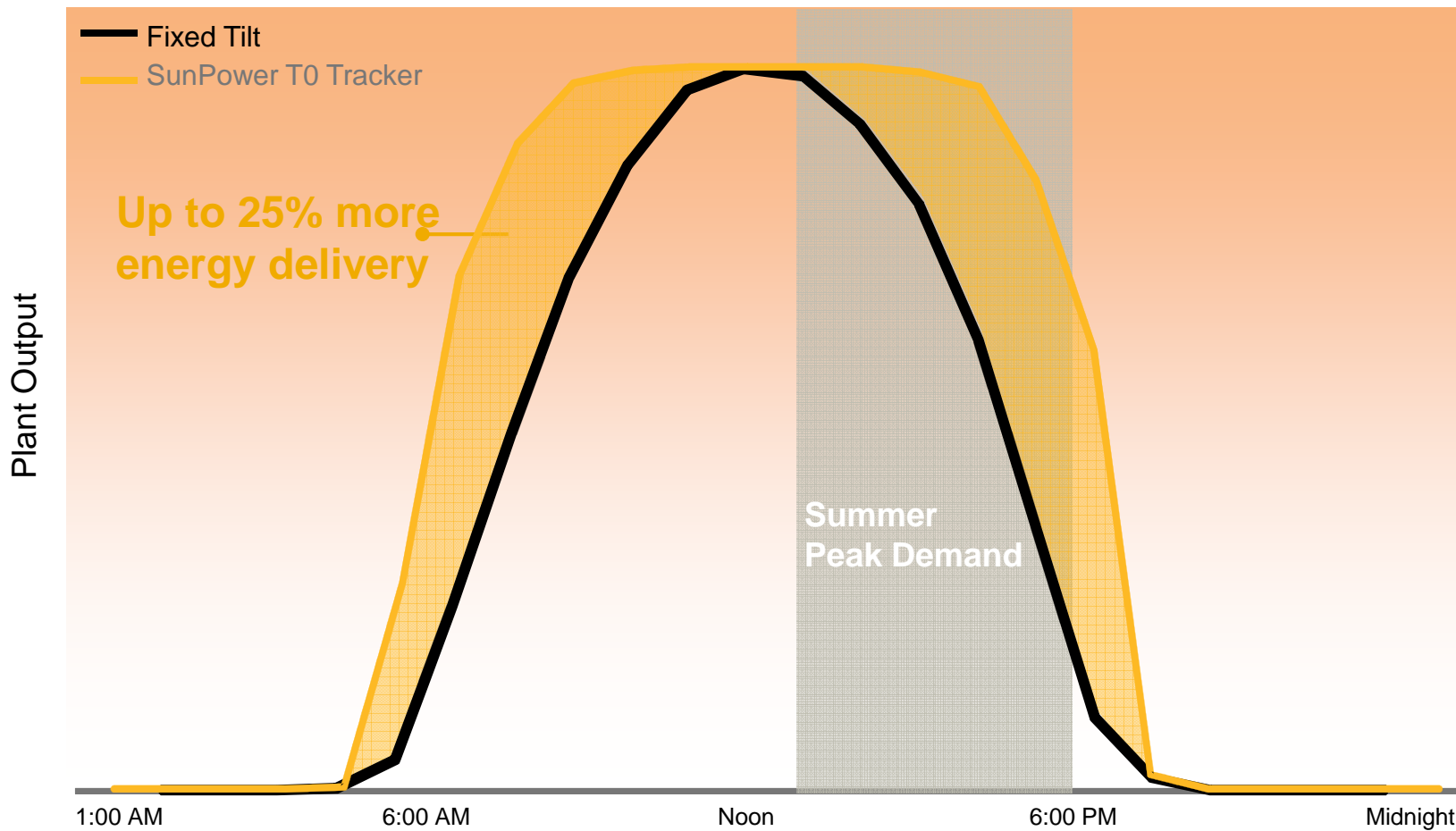
Most installed single-axis tracker in the world

- Up to 25% more energy produced compared to a fixed-tilt system
- Excellent land use maximizes kWh generated per acre
- Can withstand wind speeds up to 100mph
- Single half horse power motor can drive up to 300kw of trackers

# SunPower T0 Tracker



# T0 Tracker Enhances Peak Production

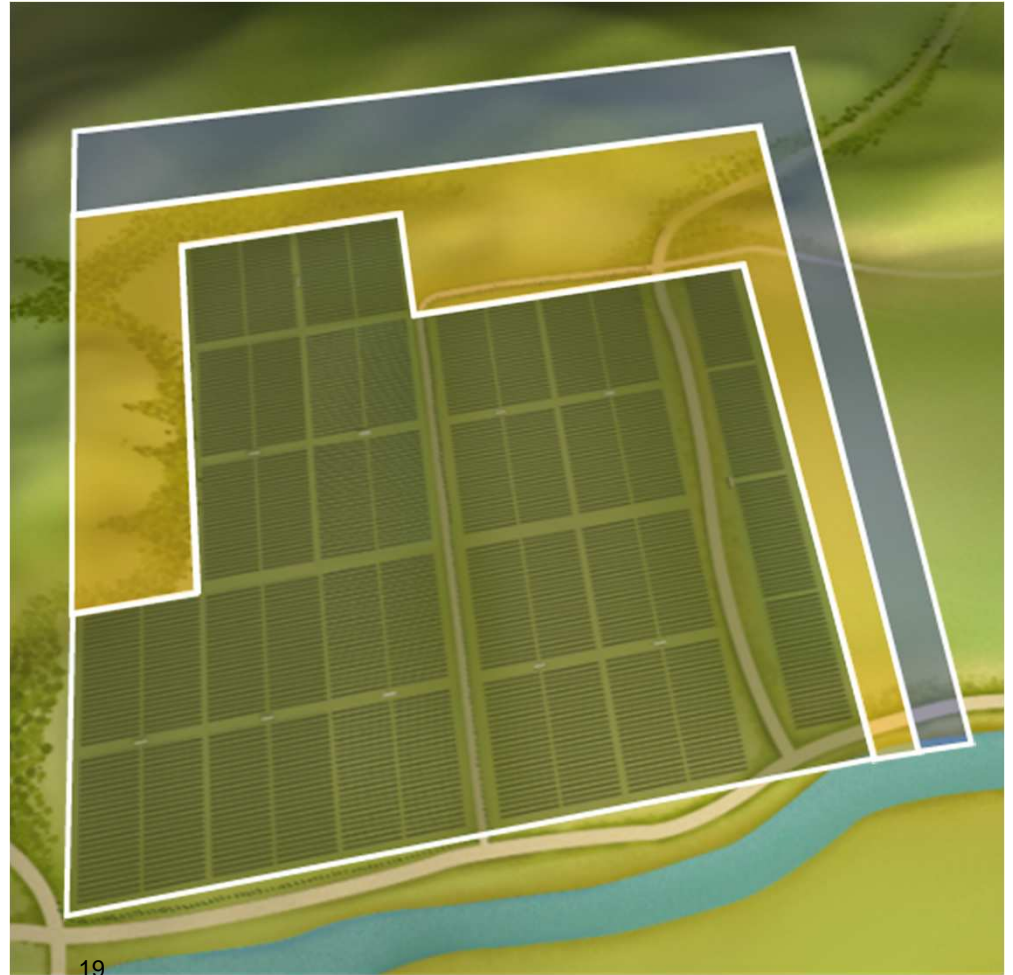


- The SunPower T0 Tracker is both community and environmentally friendly. The low-profile design provides minimal site disturbance and environmental impact, increasing the ease and speed of permitting.

SunPower Power Plant  
**191 Acres**  
30% Capacity Factor

Conventional Silicon PV Trackers  
**331 Acres**  
29% Capacity Factor

Thin Film Fixed-Tilt  
**351 Acres**  
25% Capacity Factor



# SunPower Power Plant Product Focus



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## **T0 Tracker Systems in the Southeast**

January 2009  
Start of Construction





March 2009  
13 MW Installed

June 2009  
25 MW Installed





**T0 Tracker  
FPL Desoto – 25 MW**

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# 10MW Space Coast Project



727.520.8181  
[www.aerophoto.com](http://www.aerophoto.com)

Space Coast Next Generation  
Solar Energy Center

Image # 1009090094  
Date 09.09.10

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# QVC 1MW – Rocky Mount, NC



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# SAS 1MW – Cary, NC



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# ElectriCities 1MW – Shelby, NC



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Highest Efficiency | Highest Reliability | Guaranteed Performance