

25 MW PV

Single axis tracking east to west

90,504 panels

Built Oct. 2009

Several large stormwater ponds on-site - they are excluded

17 containers that house a total of 64 inverters
 ↳ 4 x 120 KV inverters from Siemens 1.6 MVA x-formers

3 pad-mount transformers (dry type)

Not sure about recycling agreements
 Sun power panels

Single story admin bldg

2 shipping ConEx's for material storage

Photos

- 1 - Rooftop Solar on admin bldg
- 2 - Looking North from admin roof
- 3 - " " " "
- 4 - " East " " "
- 5 - panel support typical
- 6 - tracking system
- 7 - inverter container
- 8 - inside inverter container
- 9 - " " "
- 10 - " " "
- 11 - " " "
- 12 - Power Control Room
- 13 - X-formers & Power control room (grounding, primary, backup)
- 14 - inside power control room



- 15 - battery backup in power control room
- 16 - GSH nameplate
- 17 - " "
- 18 - " "
- 19 - switchgear * control bldg @ substation



FPL Next Generation Solar Energy Fact Sheet

- Power Output: 25 MW (Peak)
- Rated Test Condition: 1000 Watts / m² (Irradiance)

- PV Modules
 - 305 Watts/Module
 - 54.7 Volts DC
 - 5.58 AMPS
 - 90,504 Modules Total
 - 18.7% Efficiency

- PV Strings
 - 12 Modules / String Wired in Series
 - 656 Volts DC
 - 5.58 AMPS
 - 7542 Strings

- Inverters
 - 64 Inverters (Siemens)
 - 656 Volts DC input
 - 400 Volts AC Output
 - 420 or 350 KW

- Containers
 - Inverter Installed in Containers
 - Typically 4 – 420 KW Inverter / Container
 - Forced Air Ventilation
 - Set- up Transformer 400 v / 24 kv AC
 - Switch Gear Included
 - PLC Control on Inverter Operation

- Tracker
 - 158 Trackers
 - PLC Control East / West rotation based on time
 - Each Trackers control 576 PV Modules (Typical)
 - 1/2 HP Motor, Variable Frequency Drive
 - Increases Power Output by 25%

- Power Control Room (PCR)
 - Pre-Fab 24 KV Switchgear Building
 - Includes supervisory control and data acquisition (SCADA) and Protective Relaying

- Site
 - 361 acres: 180 acres under solar panels
 - 5 Retention ponds: 36 acres

- Environmental
 - Will provide enough electricity to power more than 3,500 homes which is more than 20% of DeSoto County
 - Will avoid the release of more than 575,000 tons of greenhouse gas emissions into the atmosphere, which is = to taking 4,500 cars off the road
 - The electricity generated by this facility will reduce the use of fossil fuels in Florida by more than 277,000 barrels of oil and seven billion cubic feet of natural gas.