

Specifications for Proposed Solar Energy Centers

The specifications provided in the following table are applicable to each of the eight proposed solar energy centers.

Specifications for FPL 74.5 MWac Solar Energy Center	
Peak Alternating Current Output	74.5 MWac
Total Installed Direct Current Capacity	113.24 MWdc
PV Panel Type	Hanwha Q Cells Q.PLLUS L G4.2
PV Panel Power Ratings (Wdc)	345
Total Number of Panels (Typical)	328,231
Inverter DC Input (MWdc)	113.24
DC/AC Ratio	1.52
Number of Power Conversion Units (PCU) ¹	35
PCU Supplier	GE Energy Power Conversion USA, Inc.
Inverters Per PCU	2
Inverter Type	GE LV5
Inverter Rating (MVA/V)	1.15/600
Medium Voltage Transformers Per PCU	1
Medium Voltage Transformer Supplier	GE PROLEC
Medium Voltage Transformer Type	3-Phase, 60 Hz, 3-Windings
Medium Voltage Transformer Rating (MVA)	2.3
Number of Inverters	70
Inverter Capacity Installed (MVA)	80.5 @ 35° C
Number of Medium Voltage Transformers	35
Medium Voltage Transformer Capacity Installed (MVA)	80.5
Number of Panel Per PCU Block (Typical)	9,378
DC Input Per PUC Block (MWdc)	3.235
PV Panel Support Mechanism	Fixed Tilt System-Tilt Angle = 20°
PV Panel Support Mechanism Material	Structural Steel Shapes
Step-up Power Transformer Supplier	Hyundai Power Transformers USA, Inc.
Step-up Power Transformer Type	3-Phase, 60 Hz
Step-up Power Transformer Ratings	115 kV ² , 138 kV ³ & 230 kV ⁴

¹ Each PCU is comprised of two inverters in cabinets and a medium voltage transformer all mounted on a single skid.

² Horizon

³ Hammock

⁴ Coral Farms, Wildflower, Barefoot Bay, Loggerhead, Indian River & Blue Cypress