

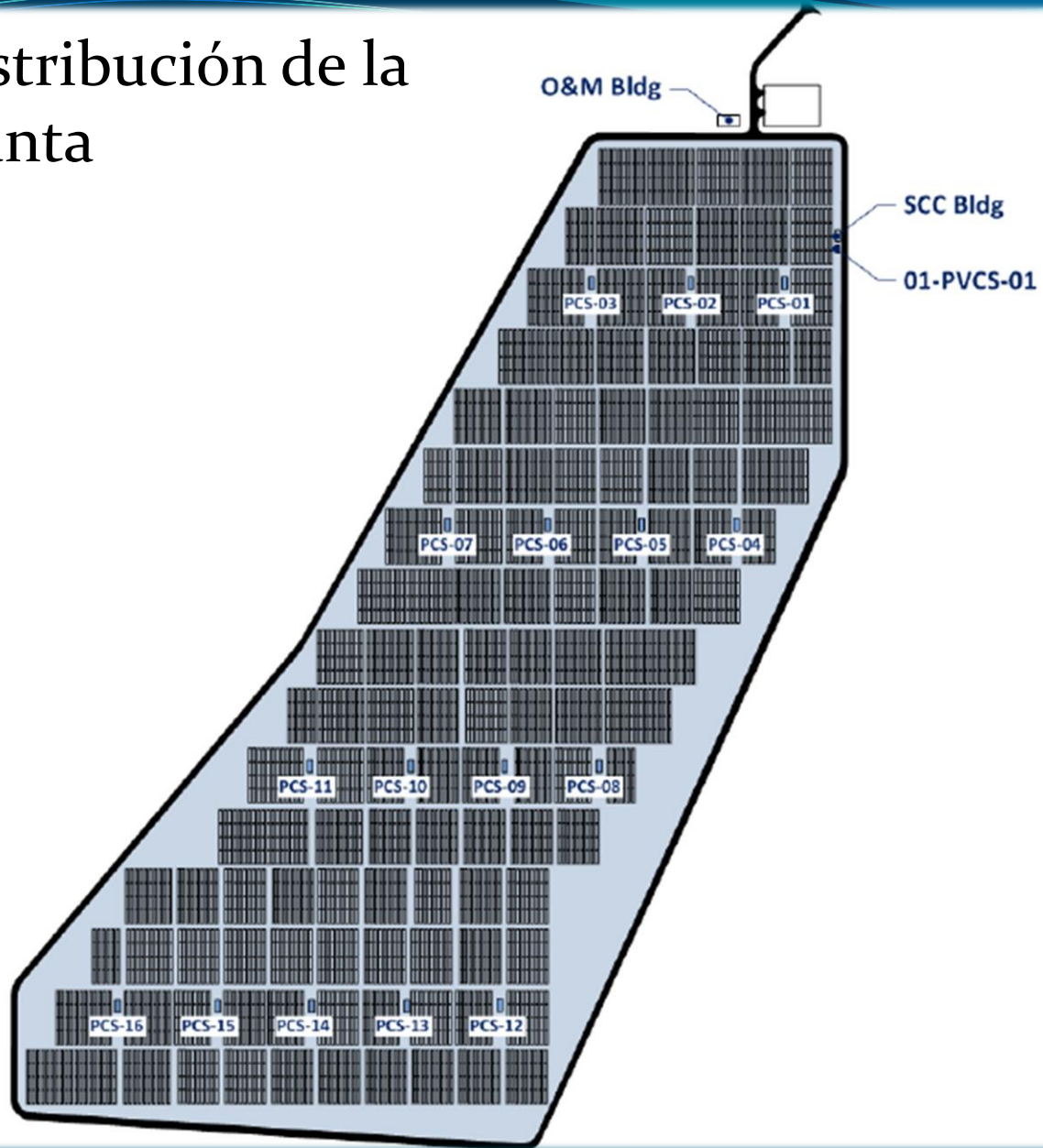
Planta Fotovoltaica Solar del Sur

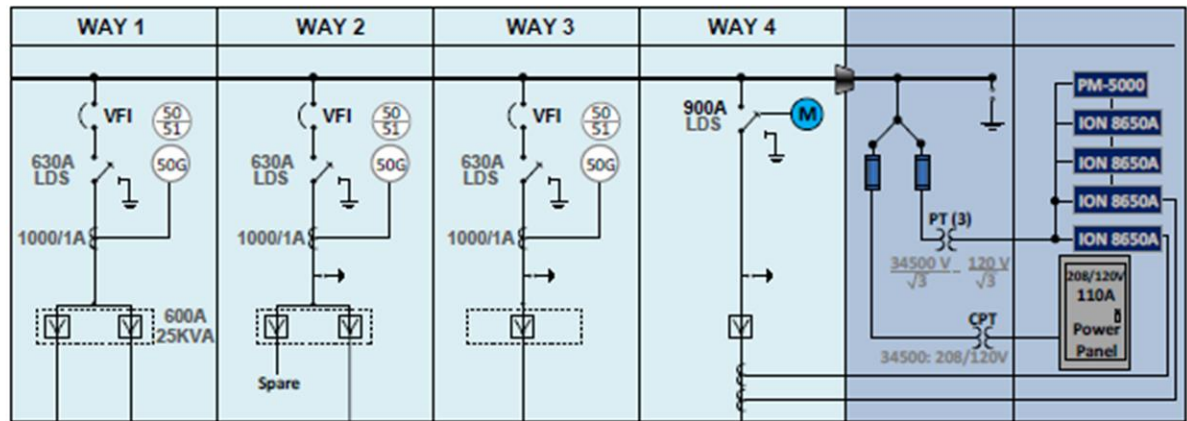
Choluteca, Honduras



Msc. Alan Arias

Distribución de la planta

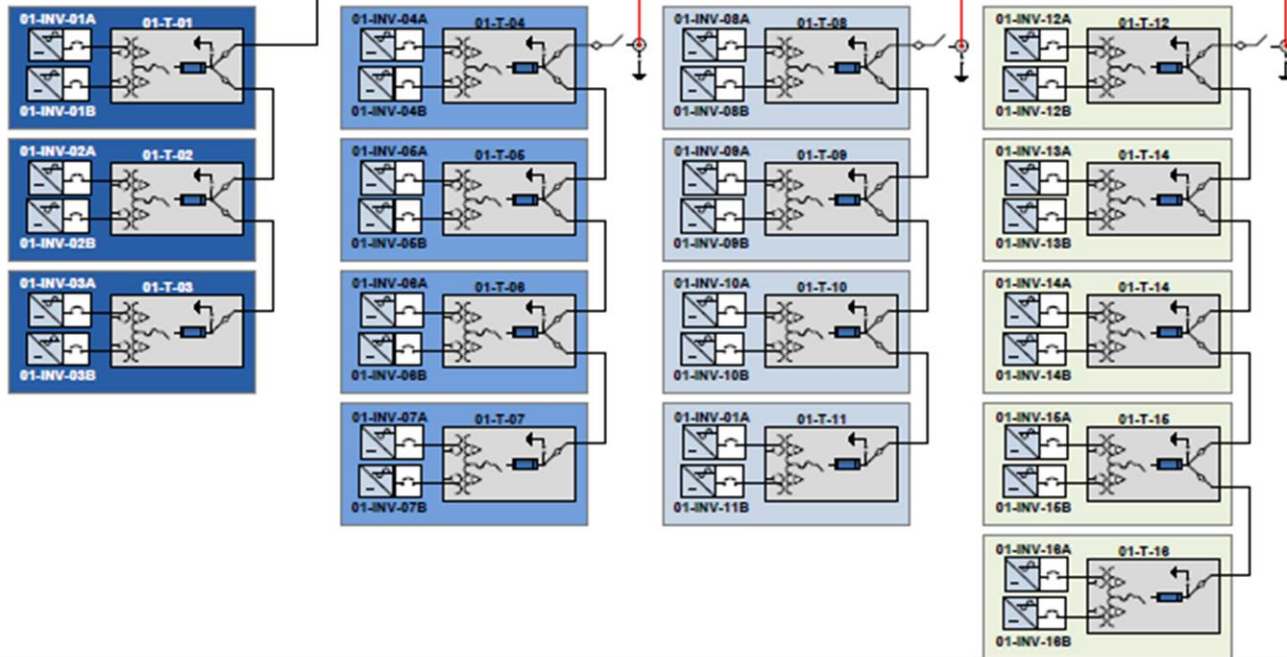


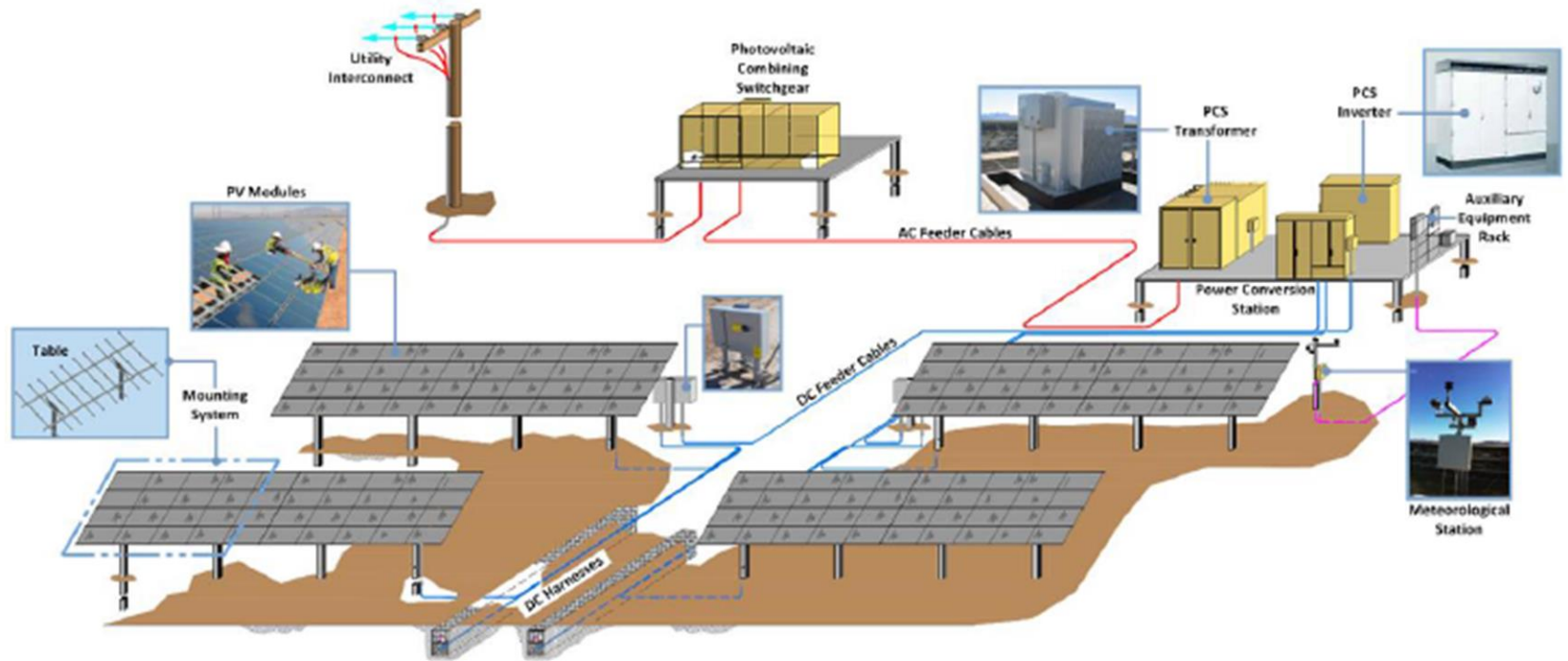


150 KVA Auxiliary Transformer

Overhead Line To Santa Lucia Substation

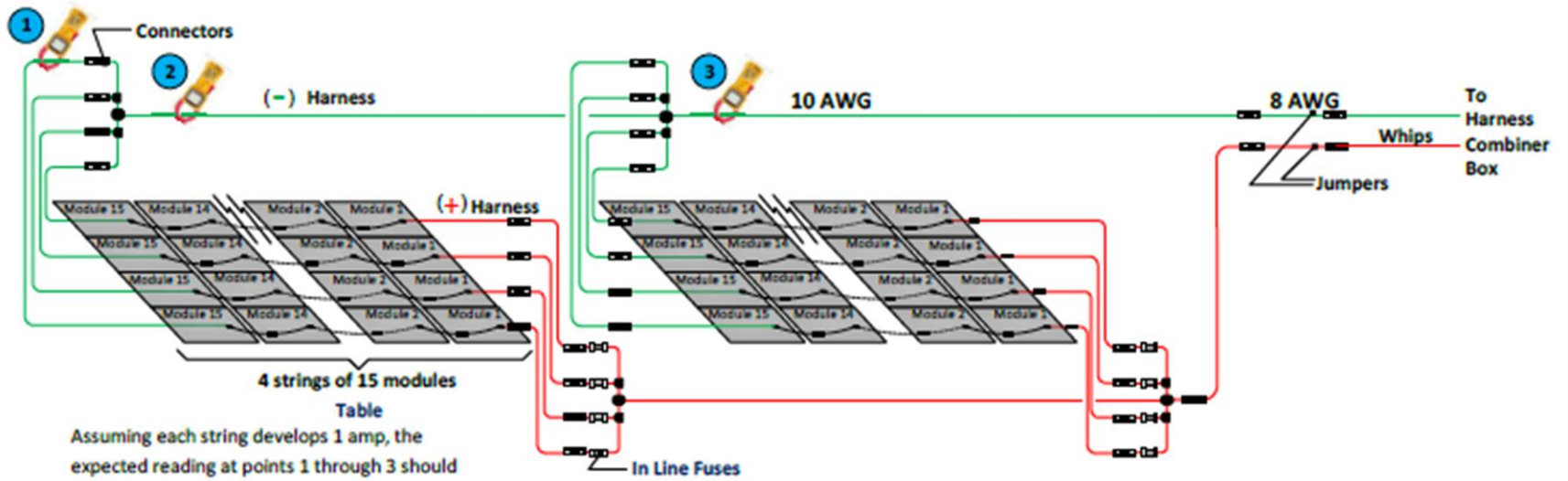
Overhead Line





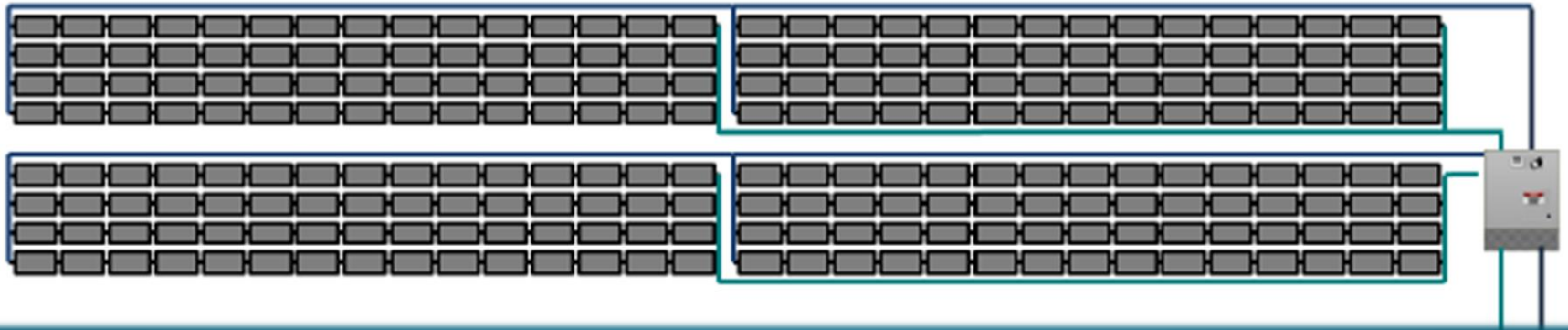
Paneles solares





Table

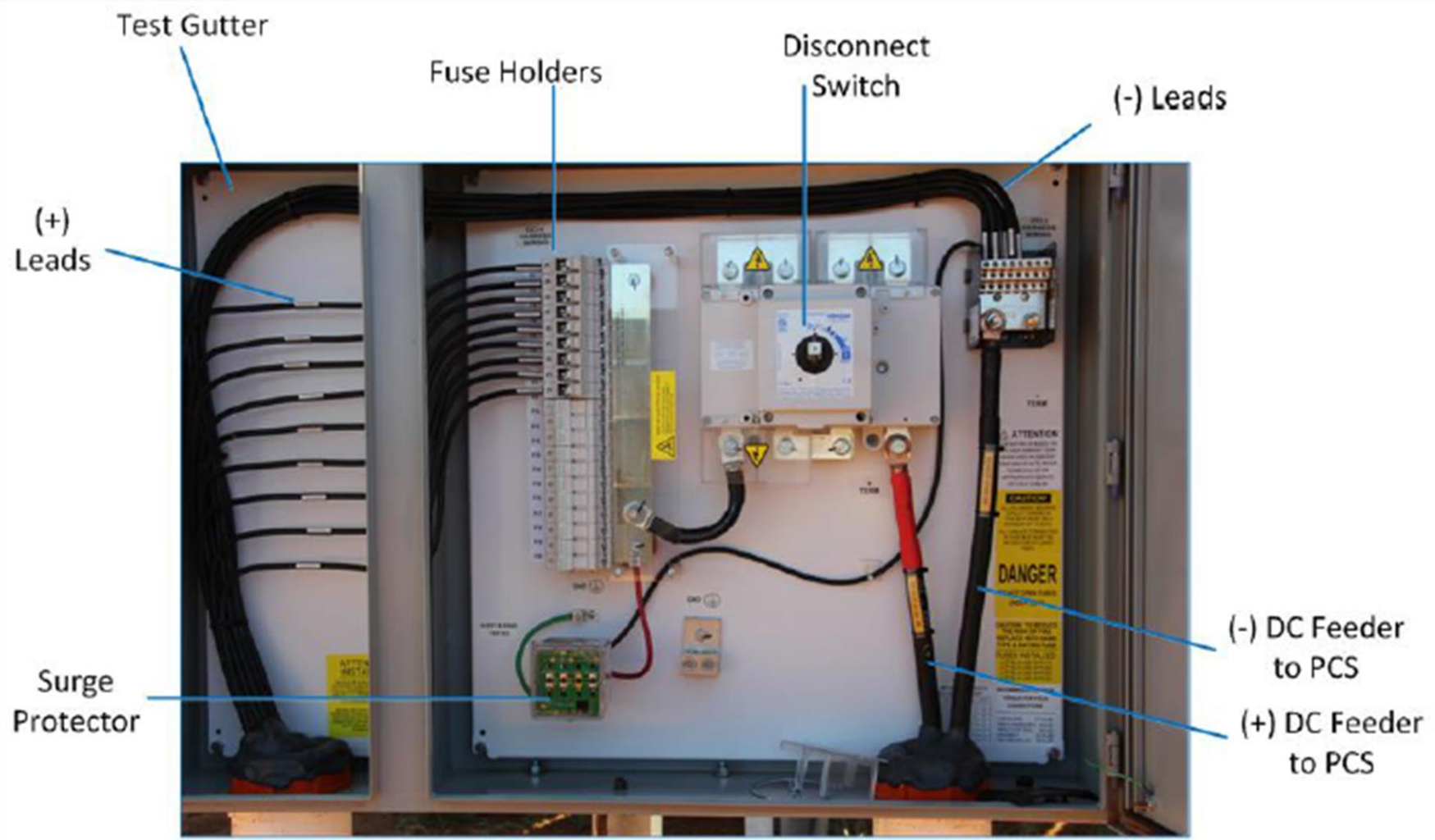
Assuming each string develops 1 amp, the expected reading at points 1 through 3 should be as follows:



Harness Combiner Box



Harness Combiner Box



Power Conversion Station PCS



Inversor



Input (DC)	
Max. DC power (@ $\cos \varphi = 1$)	898 kW
Max. input voltage	1000 V
MPP voltage range (@ 25 °C / @ 50 °C at 60 Hz)	570 V – 820 V / 570 V – 820 V
Rated input voltage	570 V
Max. input current	1600 A
Min. input voltage / VMPP_min at IMPP < IDCmax	568 V
Number of independent MPP inputs	1
Number of DC inputs: busbar / fuses	Busbar / 6 – 9
Output (AC)	
Rated power (@ 25 °C) / nominal AC power (@ 50 °C)	880kVA/800 kVA
Rated grid voltage	360V AC
AC power frequency	60 Hz
Max. output current	1411A
Max. total harmonic factor	<5%
Power factor at rated power / displacement power factor adjustable	1 / 0.8 leading ... 0.8 lagging
Max. efficiency	98.7%
Protective Devices	
DC disconnect device	DC contactor
AC disconnect device	AC circuit breaker
DC overvoltage protection	Surge Arrester Type II
General	
Dimensions (W / H / D)	2562 / 2272 / 956 mm (101 / 90 / 38 inches)
Weight	< 1870 kg (4123 lb)
Operating temperature range	-25 °C... +50 °C/ -13 °F ... +122 °F
Noise emission	63 db(A)
Max. self-consumption (in operation)/Standby	< 1800 W / < 150 W
Max. permissible value for relative humidity (non-condensing)	15 % to 95 %
Max. operating altitude above mean sea level	2000 m
Fresh-air consumption (inverter)	3000 m ³ /h

Transformador



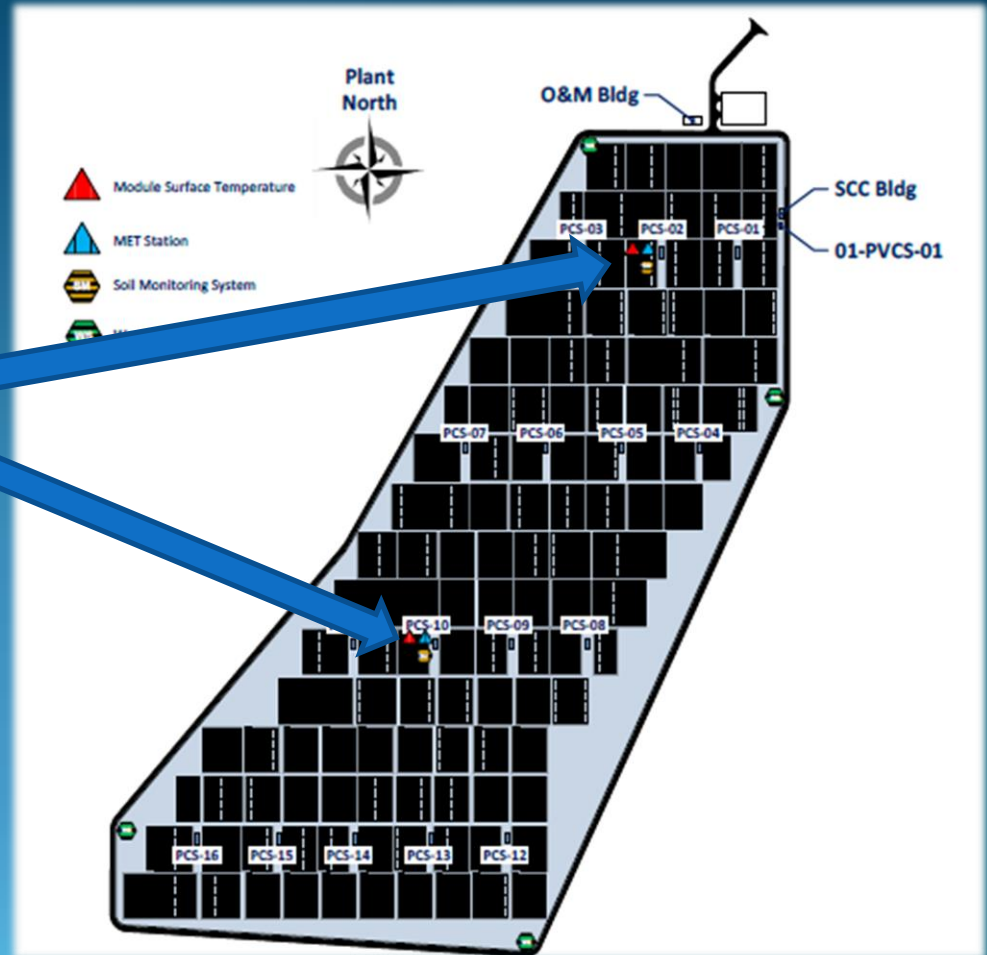
Transformador



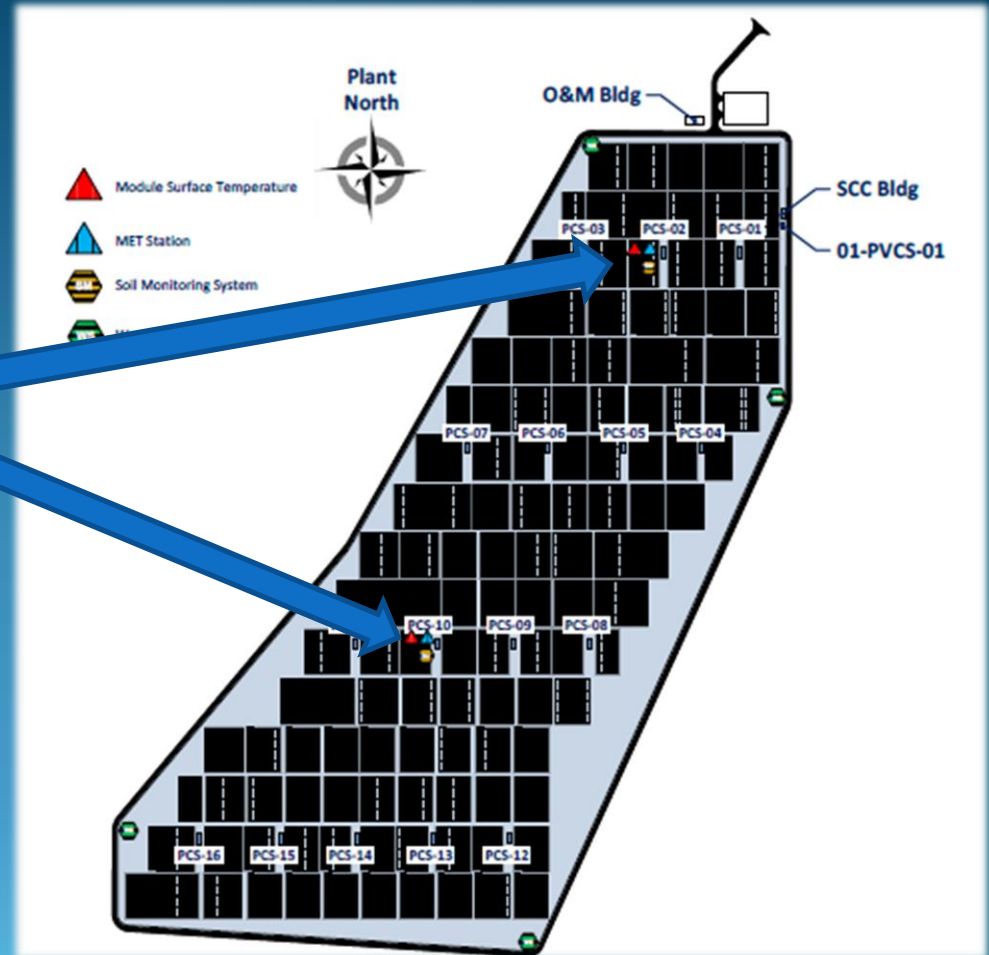


Transformador

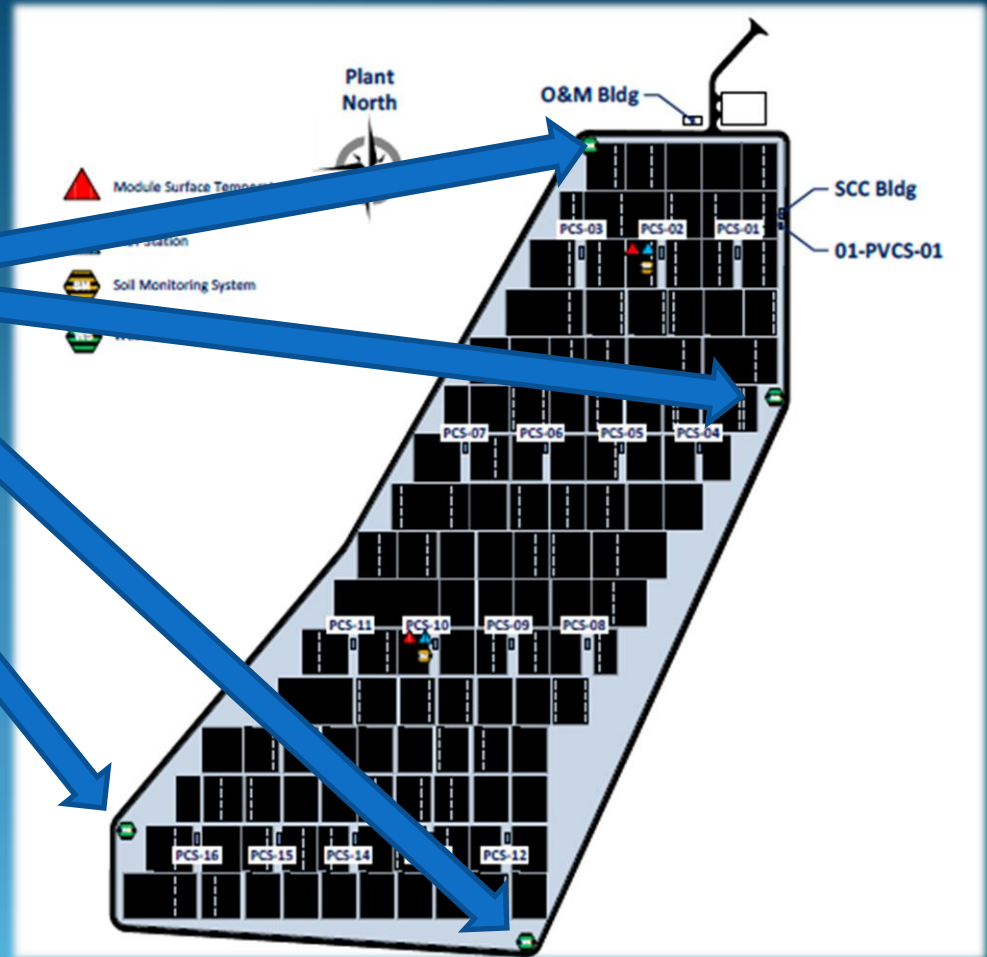
MET Station



Soil Monitoring System

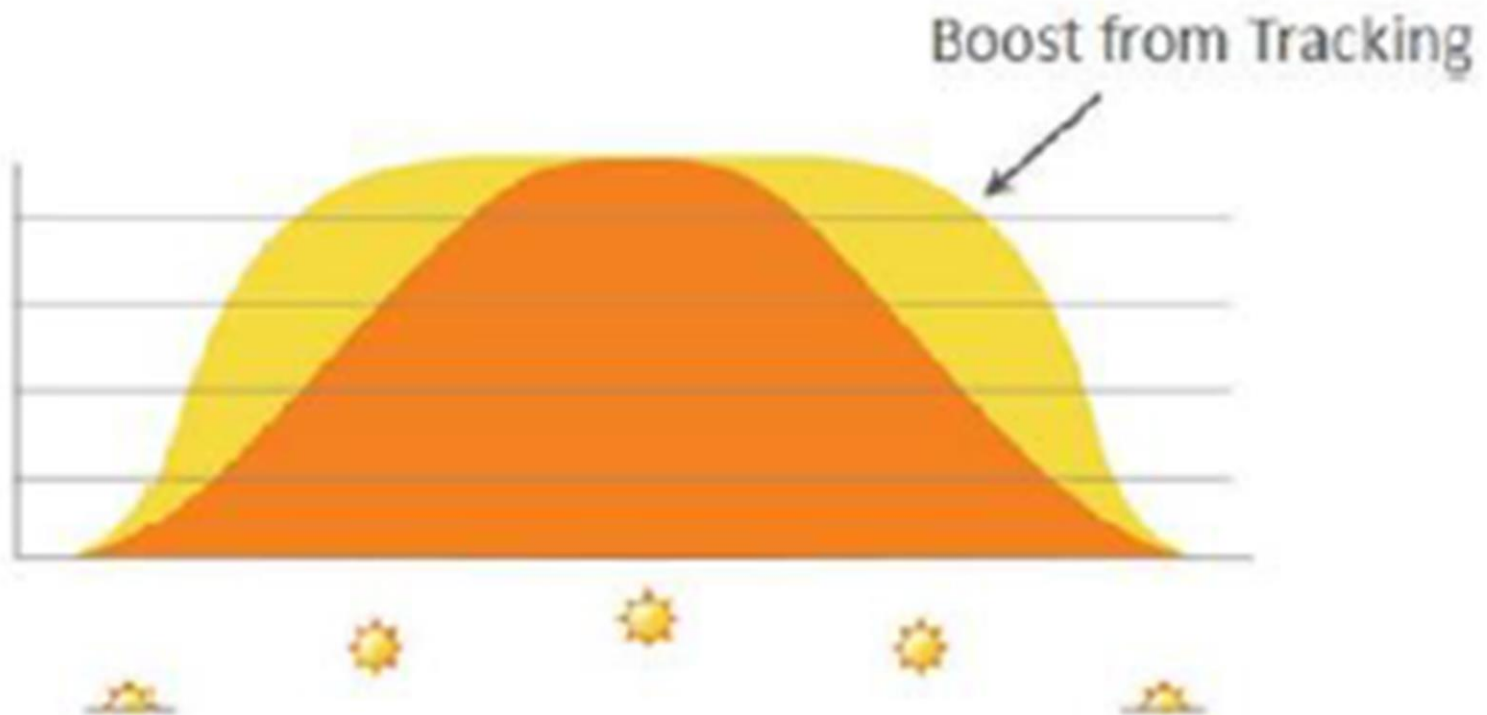


Weather Stations

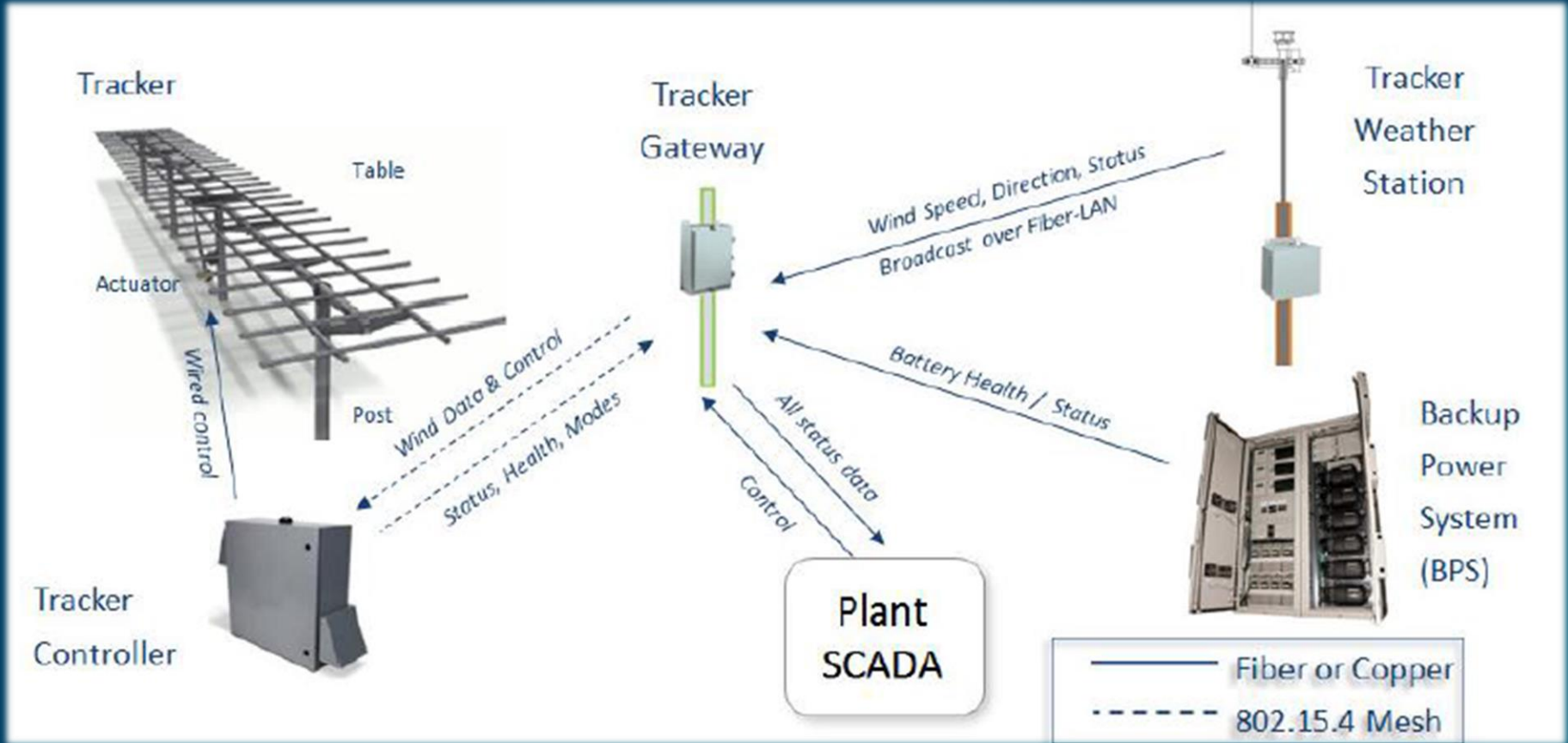


Sistema de seguimiento

Daily Power Production Tracker Compared to Fixed



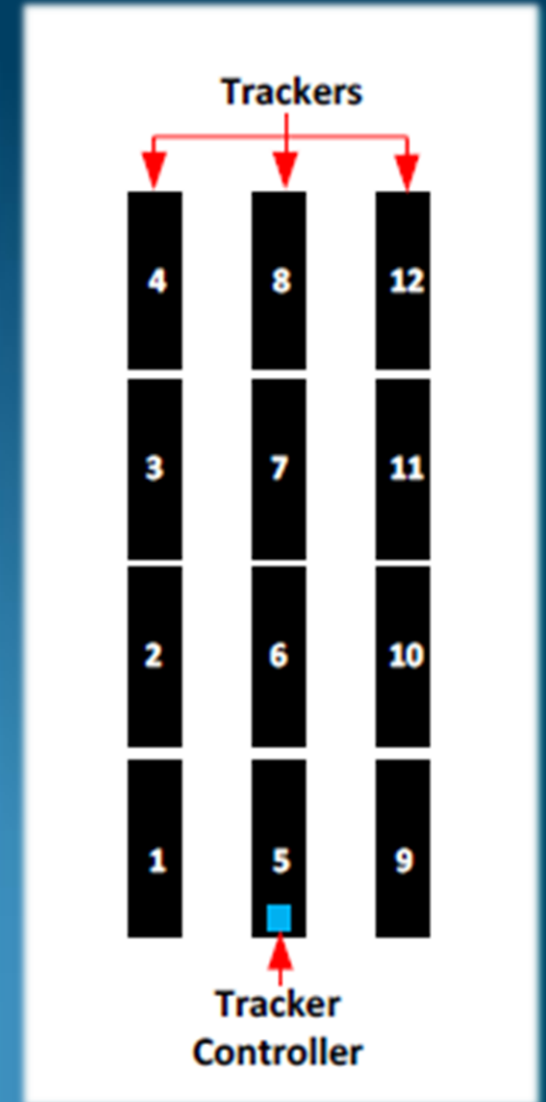
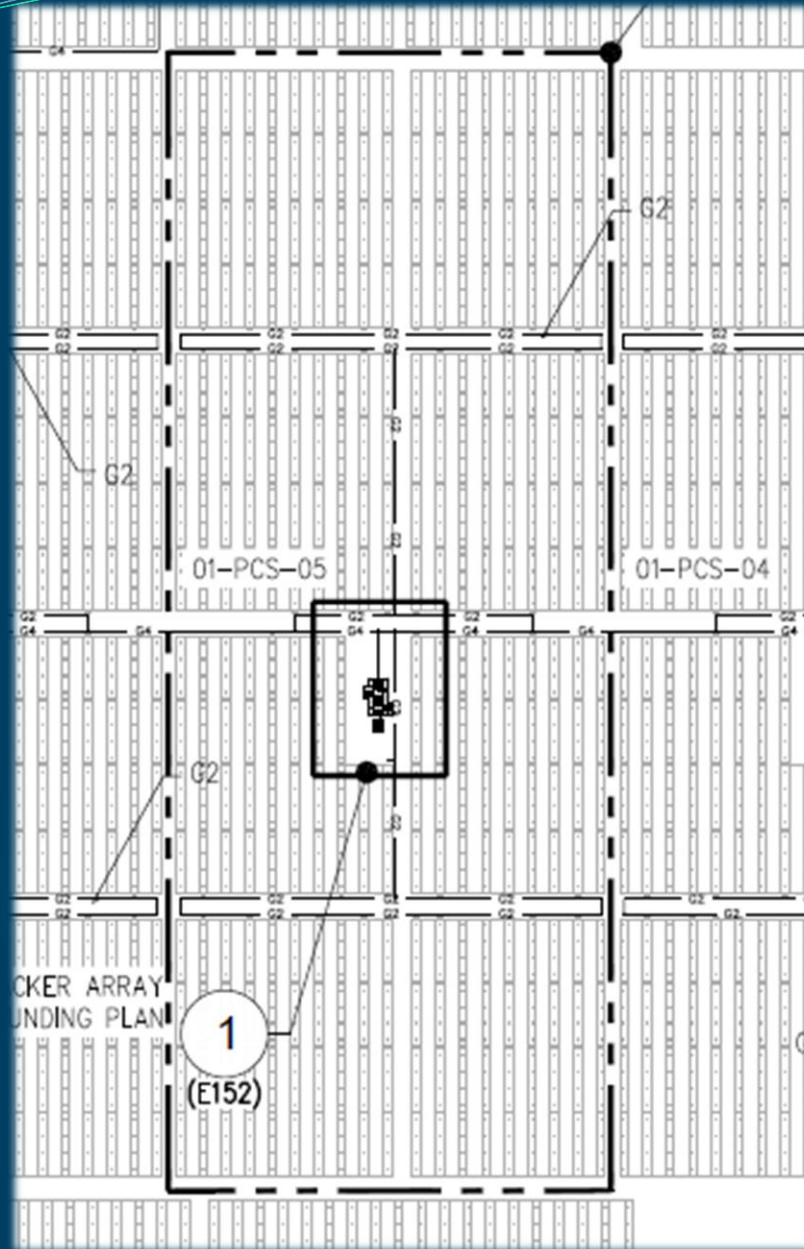
Sistema de seguimiento



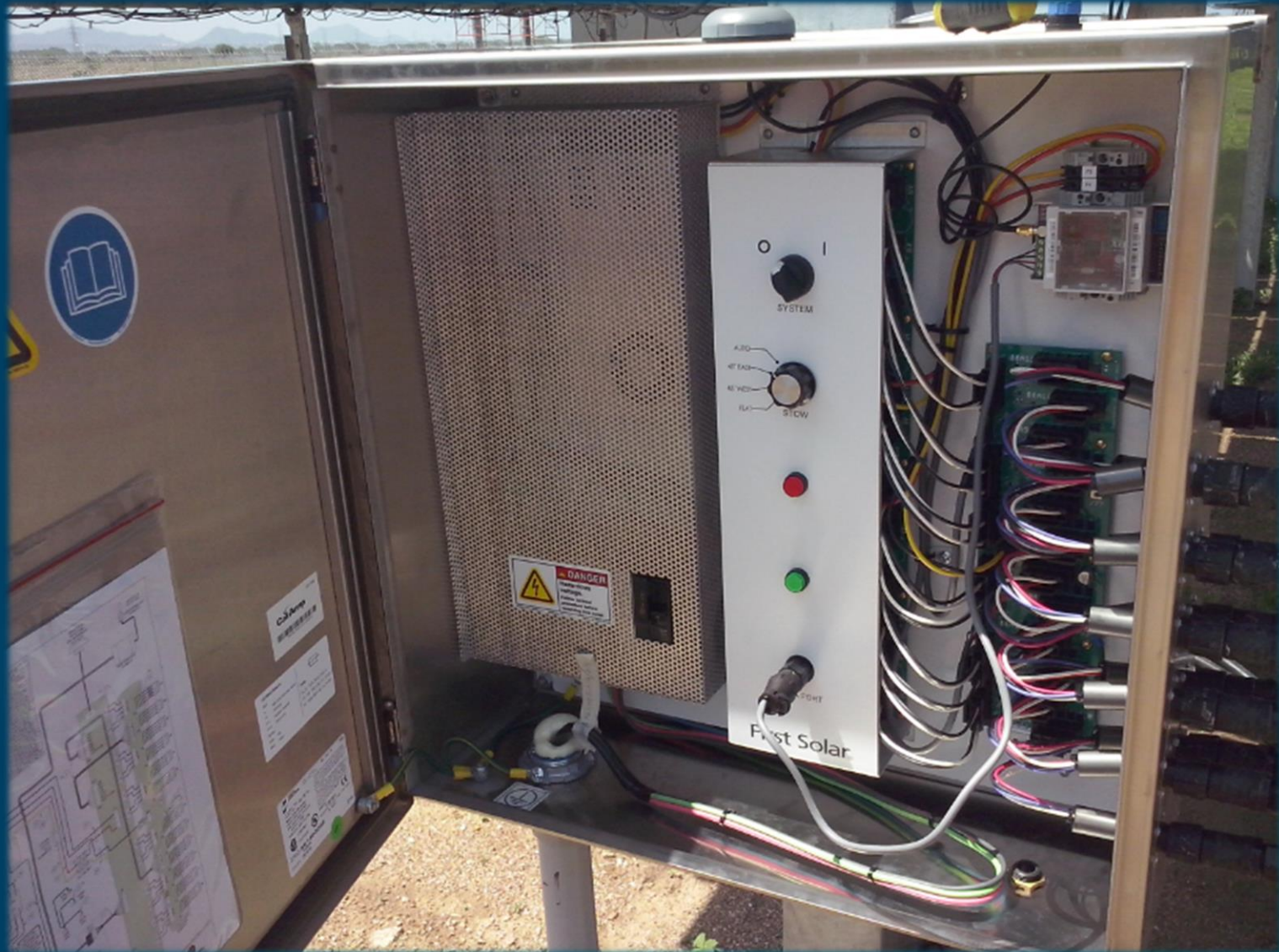
Sistema de seguimiento




Sistema de seguimiento



Sistema de seguimiento



SCADA




- Switchyard
- Plantlevel
- Block
- PCS
- Monitoring
- Control
- Help
- Display in °F
- Alarms and Events
- Trending
- Print Screens
- Log On
- Open Graphics

Active Power Control	
Setpoint	Actual
0.00	0.00

Voltage Control	
Setpoint	Actual
0.00 kV	0.00 kV

Power Factor Control	
Setpoint	Actual
0.000	0.000

Reactive Power Control	
Setpoint	Actual
0.00 MVAR	0.00 MVAR



Block001 PCS001	
Inverter A Power	kW
Inv. A HeatSink Temp	°C
Inverter B Power	kW
Inv. B HeatSink Temp	°C
Transformer Temp	°C
Transformer Pressure	psig

Block001 Status	
B001	
P001	
P002	
P003	
P004	
P005	
P006	
P007	
P008	
P009	
P010	
P011	
P012	
P013	
P014	
P015	
P016	

Metric View	
Inverter Output Power	

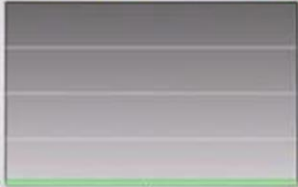
Honduras

Site PWR: ---

Site IRR: ---

Alarm Count

0	0	0	0
	0	0	



Inverter Status

Running	Available	Unavailable
0	0	0

Capacity

Nameplate	Available	Derate
0 MW	0 MW	0 MW

Alarm Enable Status

Inhibited Count	Disabled Count
0	0

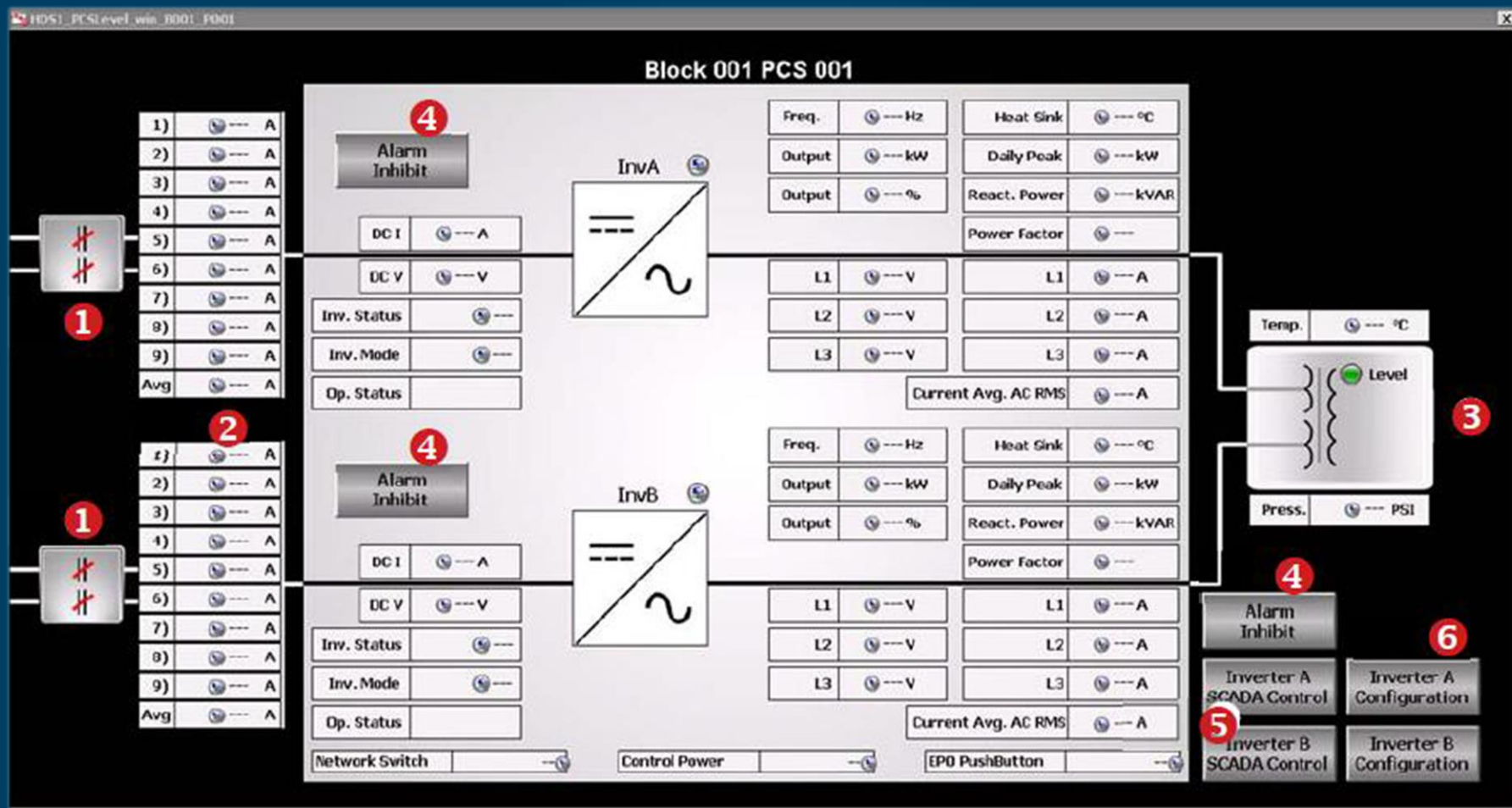
Plant Date/Time

Date: 0	Time: 0
User: None	AccessLevel: 0

TimeStamp	State	Priority	Name	AlarmComment
5/12/2015 9:04:14 AM	BACK	502	H001_0001_Wray003_P011-Abn-Parent...	Last communication with H001_0001_Wray003
5/12/2015 9:03:37 AM	BACK	002	H001_5001_PCS-Abn-Comm	PCS Communication Failure Alarm
5/12/2015 9:03:35 AM	BACK	100	H001-Abn-Offline	Offline Alarm

Displaying 1 to 3 of 3 alarms | Default | 100% Complete | Eastern Time (US, Canada)

SCADA



SCADA

