Name: Ananya Godse **SAP ID:** 60009220161 **Batch:** D1 – 2

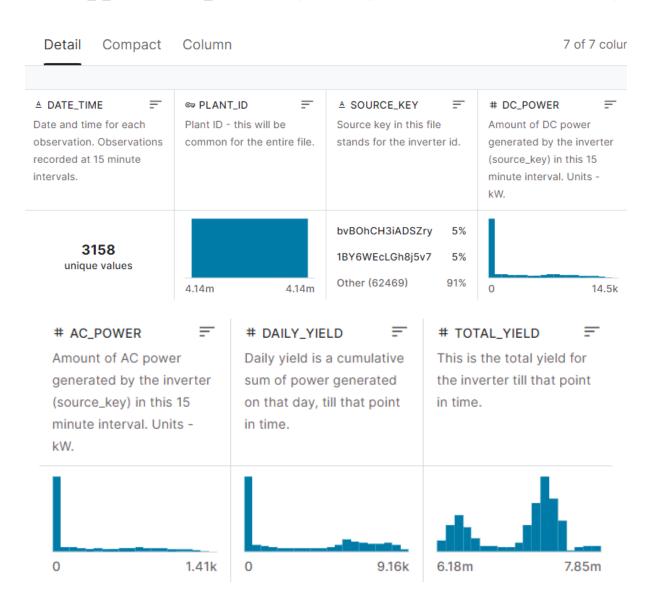
Solar Power Generation Forecasting

Data Description:

This data has been gathered at two solar power plants in India over a 34 day period. It has two pairs of files - each pair has one power generation dataset and one sensor readings dataset. The power generation datasets are gathered at the inverter level - each inverter has multiple lines of solar panels attached to it. The sensor data is gathered at a plant level - single array of sensors optimally placed at the plant.

Plant_1_Generation_Data.csv (4.84 MB)





Plant_1_Weather_Sensor_Data.csv (287.85 kB)

▼ ;;

Detail Compact Column

6 of 6 colun

About this file

Add Sugge:

Weather sensor data gathered for one solar plant every 15 minutes over a 34 days period.

Date and time for each observation. Observations recorded at 15 minute intervals.

♥ PLANT_ID
Flant ID - this will be common for the entire file.

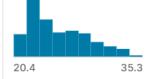
A SOURCE_KEY
Stands for the sensor panel id. This will be common for the entire file because there's only one sensor panel for the plant.

AMBIENT_TEMPE... = This is the ambient temperature at the plant.

2020-05-15 2020-06-18

4.14m 4.14m

1 unique value



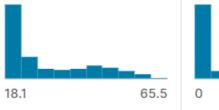
MODULE_TEMPE... =

There's a module (solar panel) attached to the sensor panel. This is the temperature reading for that module.

IRRADIATION

=

Amount of irradiation for the 15 minute interval.





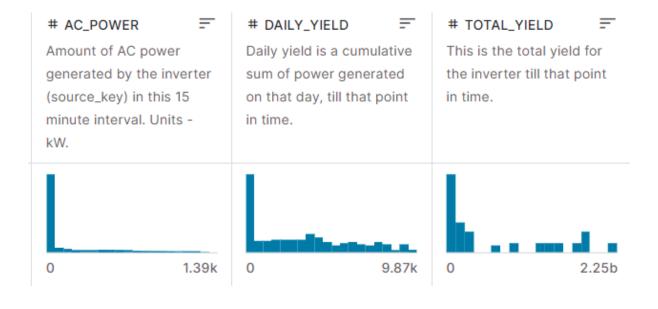
7 of 7 colur

Detail Compact Column Add Sugge: About this file

Plant_2_Generation_Data.csv (5.81 MB)

A SOURCE_KEY # DC_POWER = ☐ DATE_TIME ⇔ PLANT_ID Amount of DC power Plant ID - this will be Source key in this file Date and time for each observation. Observations common for the entire file. stands for the inverter id. generated by the inverter recorded at 15 minute (source_key) in this 15 intervals. minute interval. Units kW. 81aHJ1q11NBPMrL 5% 9kRcWv60rDACzjR 5% Other (61180) 90% 2020-05-15 2020-06-18 4.14m 4.14m 1.42k

Solar power generation data for one plant gathered at 15 minutes intervals over a 34 days period.



Plant_2_Weather_Sensor_Data.csv (301.44 kB)

Detail Compact Column 6 of 6 colur

About this file

Add Sugge

Weather sensor data gathered for one solar plant every 15 minutes over a 34 days period.

☐ DATE_TIME	=
Date and time for each	
observation. Observati	ons
recorded at 15 minute	

PLANT_ID Plant ID - this will be

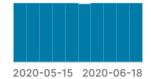
≜ SOURCE_KEY Stands for the sensor

AMBIENT_TEMPE... = This is the ambient temperature at the plant.

intervals.

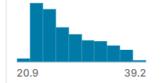
common for the entire file.

panel id. This will be common for the entire file because there's only one sensor panel for the plant.





1 unique value



MODULE_TEMPE... =

IRRADIATION

There's a module (solar panel) attached to the sensor panel. This is the temperature reading for that module.

Amount of irradiation for the 15 minute interval.

