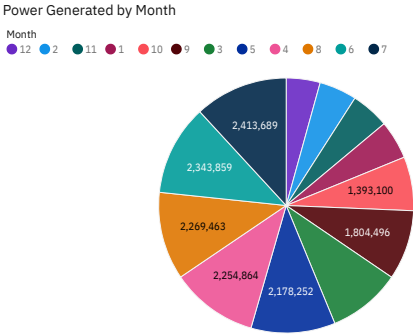


SOLAR PANEL FORECASTING



1. POWER GENERATED BY MONTH

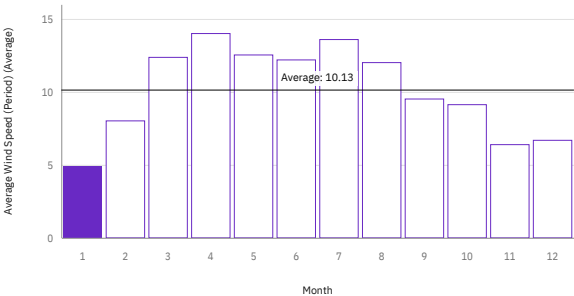
- For Power Generated, the most significant values of Month are 7, 6, 8, 4, and 5, whose respective Power Generated values add up to over eleven million, or 56.2 % of the total.
- Based on the current forecasting, Power Generated may reach almost 4.1 million by Month 15.



2.CHANGE IN PRESSURE AND WIND SPEED

- Average Barometric Pressure (Period) is unusually high when Average Wind Speed (Period) is 0.
- From 2008-11-26 to 2008-11-27, 0's Average Barometric Pressure (Period) dropped by 83%.
- Over all values of Average Wind Speed (Period), the sum of Average Barometric Pressure (Period) is nearly 88 thousand

Average Wind Speed (Period) by Month



3.VISIBILITY COMPARED TO SKY COVER

- Based on the current forecasting, Sky Cover may reach 23.37 by Date 2009-11-12.
- Sky Cover has an unusually high value at time point 2009-02-04.
- The overall number of results for Sky Cover is nearly three thousand.

Visibility compared to Sky Cover

27.9K ↑

Visibility

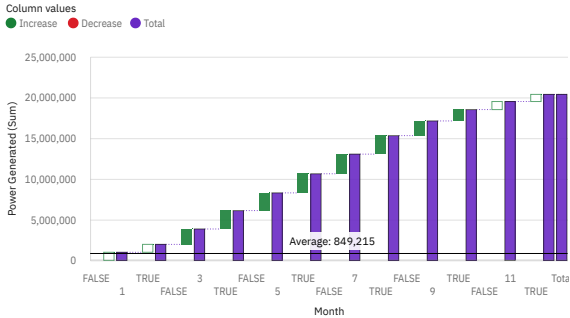
5.8K (+380.85%)

Sky Cover

4. POWER GENERATED FOR VISIBILITY

- Power Generated is unusually high when the combination of Visibility and Is Daylight is 10 and TRUE.
- Power Generated is unusually high when Visibility is 10.
- Is Daylight TRUE has the highest Power Generated at over twenty million, out of which Visibility 10 contributed the most at over eighteen million.
- From 2009-04-23 to 2009-04-24, TRUE's Power Generated increased by 4491%.
- From 2009-04-23 to 2009-04-24, 10.0's Power Generated increased by 4491%.

Power Generated for Month



5.TOTAL POWER GENERATED

- Power Generated has a weak upward trend.
- Date 2008-10-11 and 2008-10-30 have the lowest total Power Generated at 0.0.
- Date 2009-05-20 has the highest total Power Generated at 97262.0, followed by 2009-07-06 at 97165.0.
- Based on the current forecasting, Power Generated may reach almost 60 thousand by Date 2009-11-12.

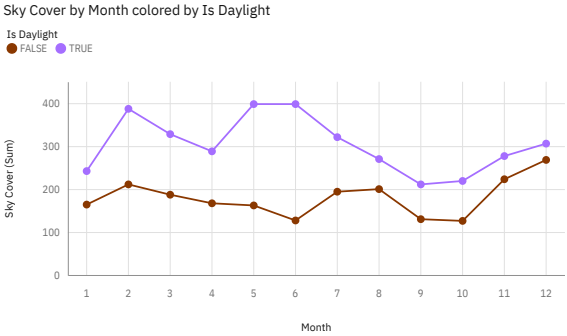
Power Generated

20381151

Power Generated

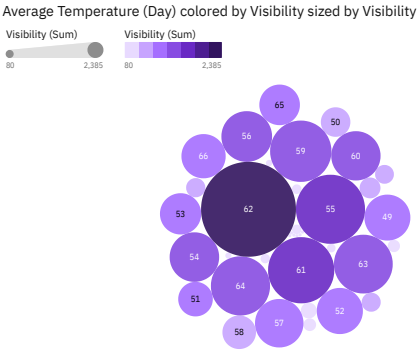
6.SKY COVER BY MONTH BY ITS IS DAYLIGHT

- Sky Cover is most unusual when the combinations of Month and Is Daylight are 5 and TRUE, 6 and TRUE, 2 and TRUE, 10 and FALSE, 6 and FALSE and more.
- Sky Cover is most unusual in 9, 10 and 2.
- Based on the current forecasting, Sky Cover may reach 968.3 by Month 15.



7. AVERAGE TEMPERATURE(DAY)

- From 2009-01-06 to 2009-01-07, 49's Visibility dropped by 35%.
- Over all values of Average Temperature (Day), the sum of Visibility is almost 28 thousand.
- Visibility ranges from 80, when Average Temperature (Day) is 42, to almost 2500, when Average Temperature (Day) is 62.



8.FORECASTING TABLE

- Here the table describes the sky cover , visibility , relative humidity of the surroundings .
- the total power generated by the solar panel.
- the total power generated in specific year i.e 2008 and 2009

Year, Sky Cover, Visibility, Relative Humidity and Power Generated

Year	Sky Cover	Visibility	Relative Humidity	Power Generated
2008	1,760	9,155	73.6	5,064,295
2009	4,044	18,753.5	73.47	15,316,856
Summary	5,804	27,908.5	73.51	20,381,151

9. SKYCOVER AND POWER GENERTED FOR A MONTH

- Based on the current forecasting, Power Generated may reach almost 4.1 million by Month 15.
- Based on the current forecasting, Sky Cover may reach 968.3 by Month 15.
- There is a weak quadratic relationship between Power Generated and Sky Cover, being Power Generated = $-7559272 + 41690 * \text{Sky Cover} - 44.7 * \text{Sky Cover}^2$.

Average Temperature (Day) by Visibility colored by Month

