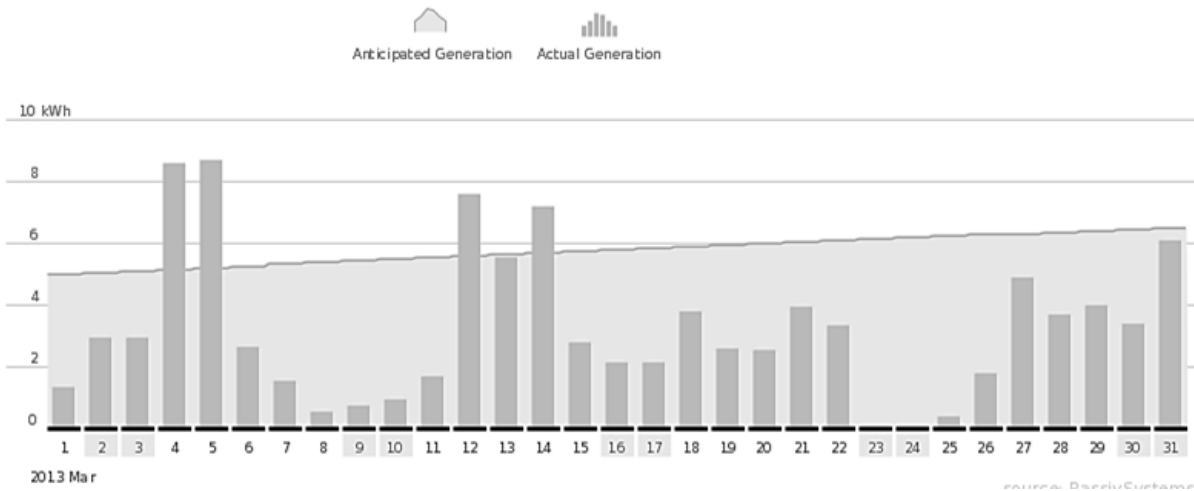


2. Gareth had solar panels installed on the roof of his house. The solar panels produce electricity. The amount of electricity generated, measured in kilowatt hours (kWh), depends on the intensity of sunlight each panel receives.

Information on the electricity generated by his solar panels is available via the internet.

This graph shows the amount of electricity generated for March 2013.



- (a) (i) The internet connection was not working on March 23rd and 24th. Gareth wanted to estimate the amount of electricity generated on those two days.

He decides to estimate it by working out the average of electricity generated on March 22nd and 25th.

Use information on the graph to decide whether Gareth’s method is sensible.

[2]

- (ii) Gareth later finds out that the panels actually generated less than 2kWh on each of March 23rd and 24th.

Work out on which date in March the median amount of electricity was generated and write down an estimate of this median amount.

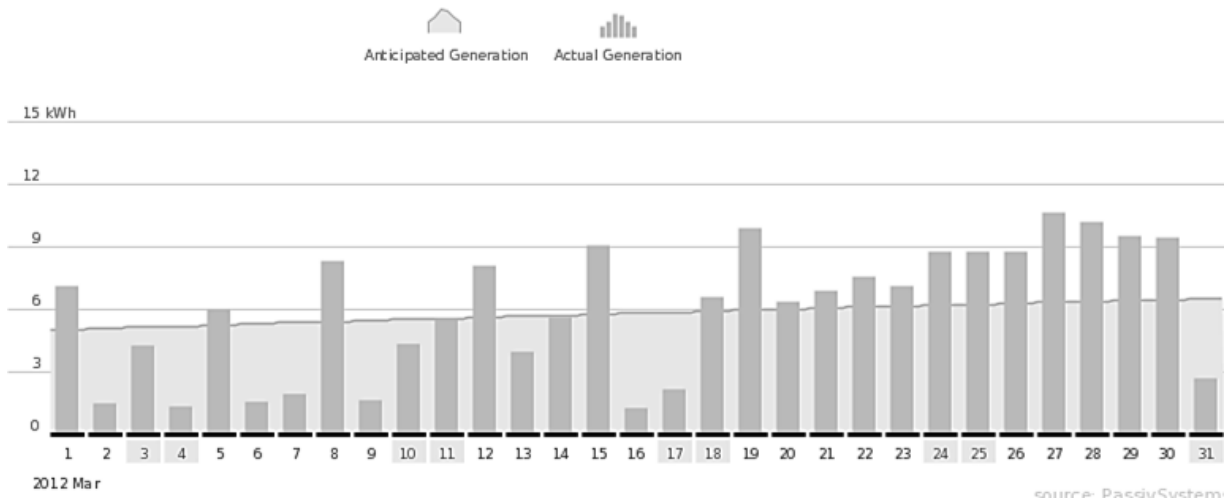
(a) (ii) Date _____ Median _____ kWh **[3]**

The graph also shows the anticipated generation of electricity. This is the amount of electricity the makers of the solar panels believe the system should generate throughout the month.

(b) (i) Comment on the performance of the panels with respect to the makers' belief.

[1]

Gareth decides to compare the graph of electricity generated for March 2013 with the graph of electricity generated for March 2012.



(ii) Compare the amount of electricity generated in March 2012 and in March 2013. You must support your conclusions with information and / or calculations from the graphs.

[4]