

1 Q. **Reference: Regulated Activities Evidence**

2 Please provide a probabilistic distribution of variability for the 2013 hydraulic
3 production forecast based on intervals of 100 GWh. (Regulated Activities Evidence,
4 Schedule V, page 1 of 1)

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7 A. A probabilistic frequency distribution of the expected hydraulic production forecast
8 is provided in Chart 1 on the following page. The figure demonstrates the variation
9 in the expected production cited in the application and is based on the range of
10 results obtained with the 61 hydrological sequences simulated in the Vista
11 modeling. The expected value (average of the 61 sequences) of the production is
12 4,533 GWh per year.

13

14 The variability in the storage adjustment required to reflect the energy value in the
15 change in storage between the beginning and ending time of the run is not
16 reflected in the data – an average value of the storage adjustment was applied to
17 each of the 54 scenarios. Similarly, an average value for the mini hydro generation
18 was used.

19

20 Summary statistics are presented in the Table 1. It should be noted that each value
21 in the series is unique, so the data points were rounded to the nearest 5 GWh to
22 allow for calculation of a mode.

Chart 1 - Frequency Distribution

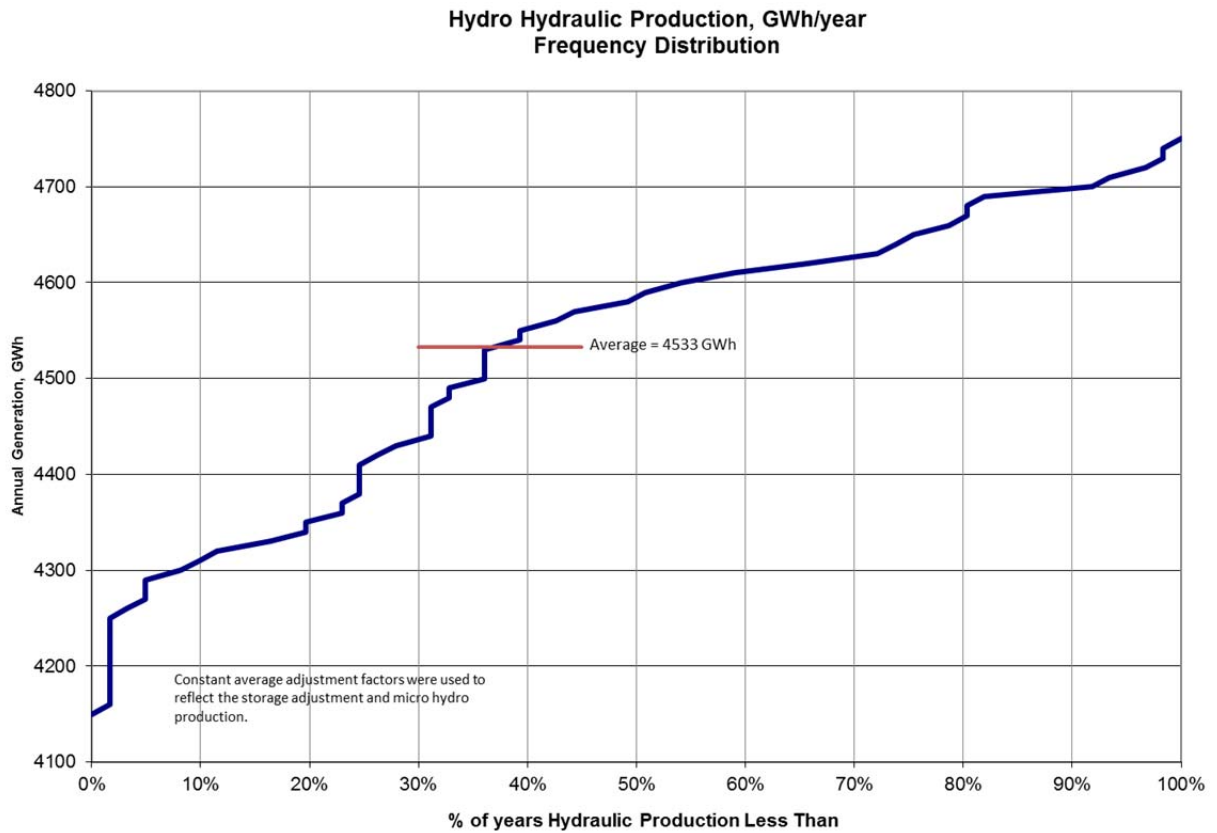


Table 1 - Statistics

| | |
|------------------------------------|------------------------------------|
| % data points greater than average | 64% |
| % data points lower than average | 36% |
| Mean | 4,533 |
| Median | 4,590 |
| Mode | 4,690 (when data rounded to 5 GWh) |