Q. **Reference: Regulated Activities Evidence**

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

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

The variability in the storage adjustment required to reflect the energy value in the change in storage between the beginning and ending time of the run is not reflected in the data – an average value of the storage adjustment was applied to each of the 61 scenarios. Similarly, an average value for the mini hydro generation was used.

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

Chart 1 - Frequency Distribution

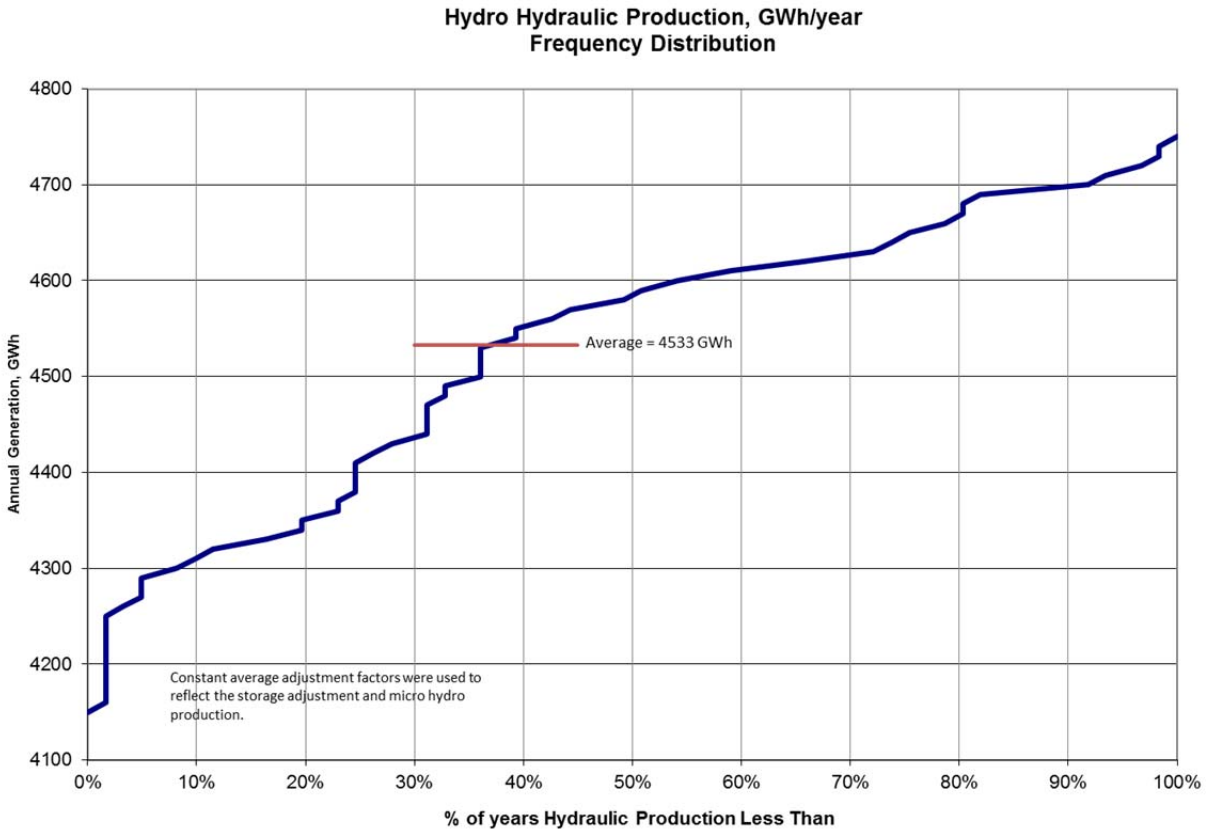

Table 1 - Statistics

% Data points greater than average	61%
% Data points lower than average	39%
Mean	4,533
Median	4,590
Mode	4,690 (when data rounded to 5 GWh)