

1 Q. **System Design**

2 What are the ranges of kVA sizes of the transformers in Hydro's distribution  
3 substations? How many of Hydro's substations have more than one transformer?

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6 A. The following table summarizes the kVA size ranges for single and three phase  
7 transformers located in Hydro's distribution substations on the island:

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Type of Transformer	Range (kVA)*
Single Phase	75 to 833
Three Phase	1,000 to 16,670

\* The kVA ranges consider the various ratings for each transformer.

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10 The substation transformers in Hydro's distribution substations are comprised of  
11 single and/or three phase transformers. In the context of this question, a bank of  
12 three single phase transformers was considered as one transformer. Therefore,  
13 Hydro has two substations on the Island that have multiple transformers that  
14 operate in parallel and provide redundancy to their respective systems.