École de gestion
TELFER
School of Management

Personal Ethics Statement

Individual Assignment:

By signing this Statement, I am attesting to the fact that I have reviewed the entirety of my attached work and that I have applied all the appropriate rules of quotation and referencing in use at the Telfer School of Management at the University of Ottawa, as well as adhered to the fraud policies outlined in the Academic Regulations in the University's Undergraduate Studies Calendar. Academic Fraud Webpage

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ADM 2303 [B]

ASSIGNMENT 4 PART 2 SUBMISSION

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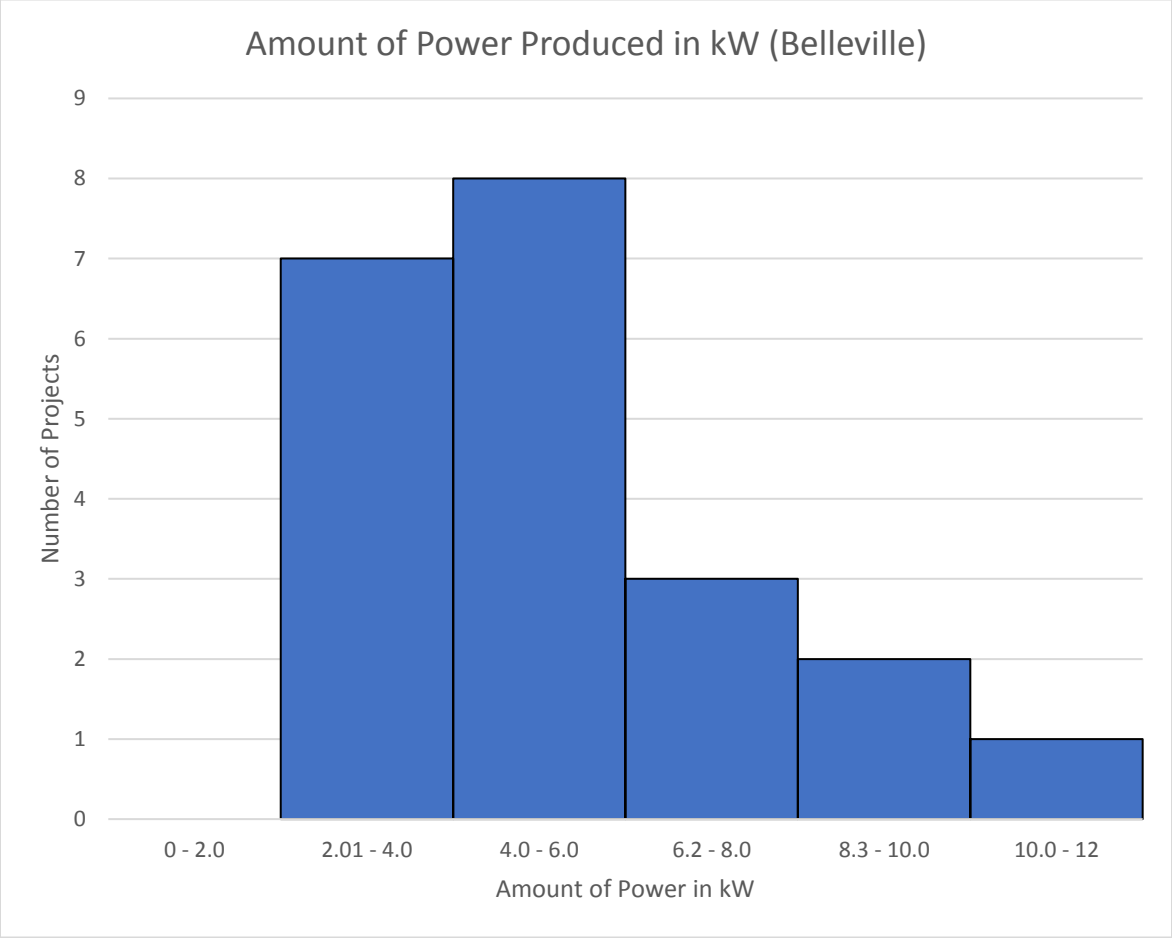
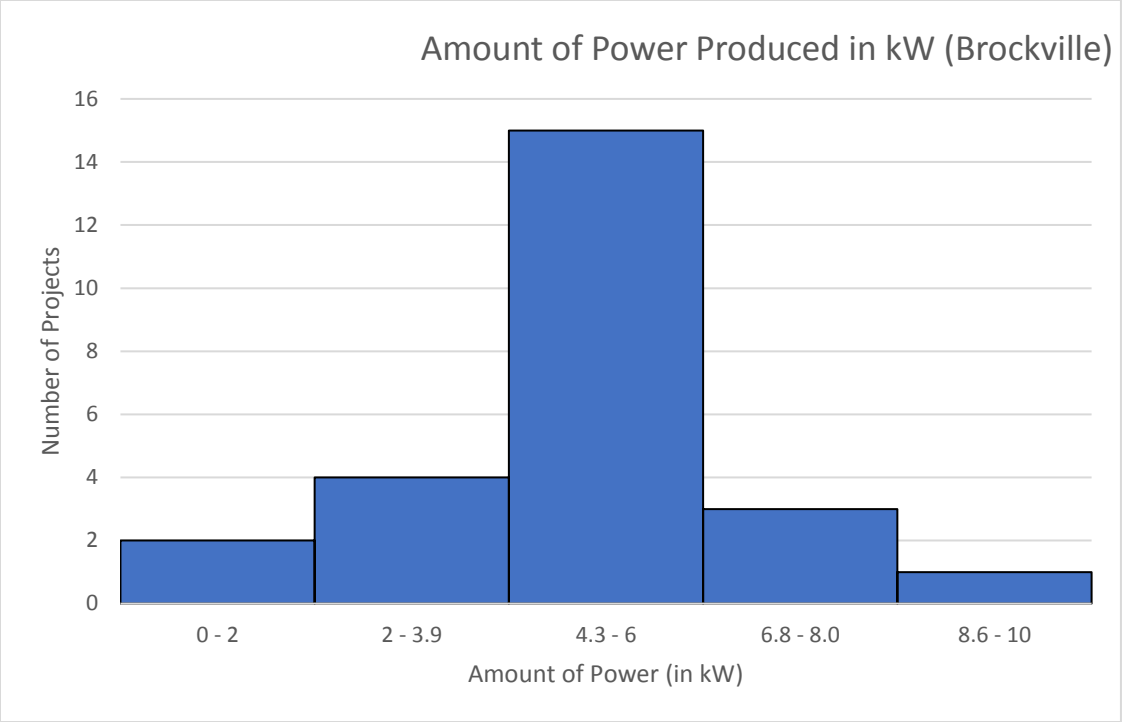
PLAN

We want to know if it is more beneficial for the installer to focus on Belleville or Brockville. Given that the installer must take into consideration his travel time from Kingston and returns to scale, it would be more beneficial to mainly focus on one community. Through the analysis of Belleville and Brockville's data regarding the production of the amount of power in each project he installed in the first year, we will determine which community will generate the greatest impact, and thus being the community that we should focus on.

DO

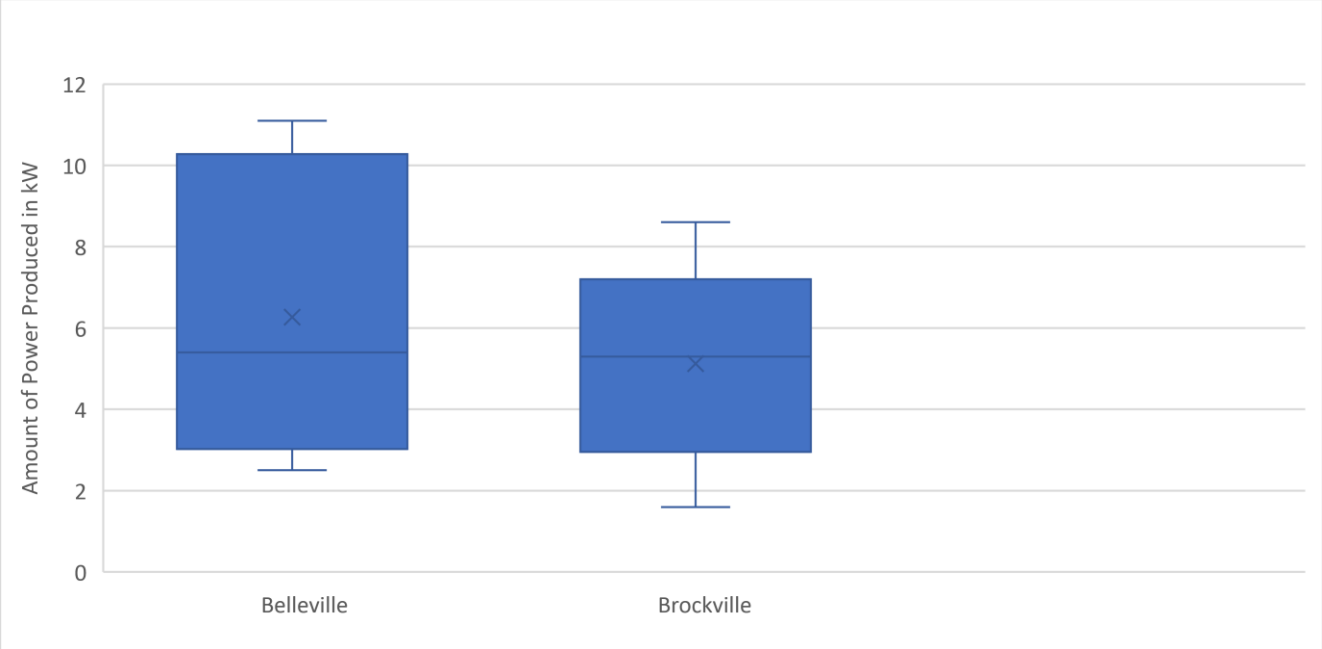
To decipher which community will generate the greatest impact, we would have to plot out histograms for each community to understand the frequency of each community's amount of power produced.





Through the analysis of both histograms, we can then calculate the median, minimum value, maximum value, 25th percentile and 75th percentile. With those calculations, we would then be able to plot out box-and-whisker diagrams for both communities and compare them against each other.

	Minimum Value	**25th Percentile**	**Median**	**75th Percentile**	**Maximum Value**
Belleville	2.5	3.2	4.6	6.2	11.1
Brockville	1.6	4.3	5.3	5.8	8.6



Upon plotting the box-and-whiskers diagram for both Belleville and Brockville, it can be concluded that the amount of power produced in Belleville (kW) shows the greatest range and the biggest IQR, so the amount of power produced in kW is least stable. Meanwhile, Brockville has a lower standard deviation and a higher median.

REPORT

Given that Brockville had the higher median of amount of power produced in kW and since most of the data is skewed to the right, installers would receive greater profit. In contrast, Belleville has a lower median and a high standard deviation, therefore not being as profitable of a community as compared to Brockville. Hence, installers should focus on Brockville next year.