

DATA ANALYTICS BOOTCAMP IRONHACK 2019

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NYC ENERGY CONSUMPTION

PROBLEM

NEW YORK WASTED MORE ENERGY PER CAPITA THAN ANY OTHER MEGACITY IN THE WORLD IN 2015



QUESTIONS

 IN WHICH MONTH THERE IS MORE ENERGY CONSUMPTION SINCE 2010?

 WHAT'S THE TOTAL ENERGY CONSUMPTION PER BOROUGH?

 IS NYC WASTING MORE ENERGY FROM SUMMER 2015 ONWARDS?

DATA



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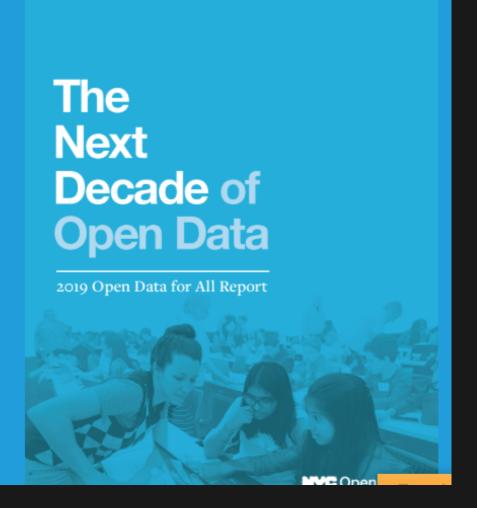
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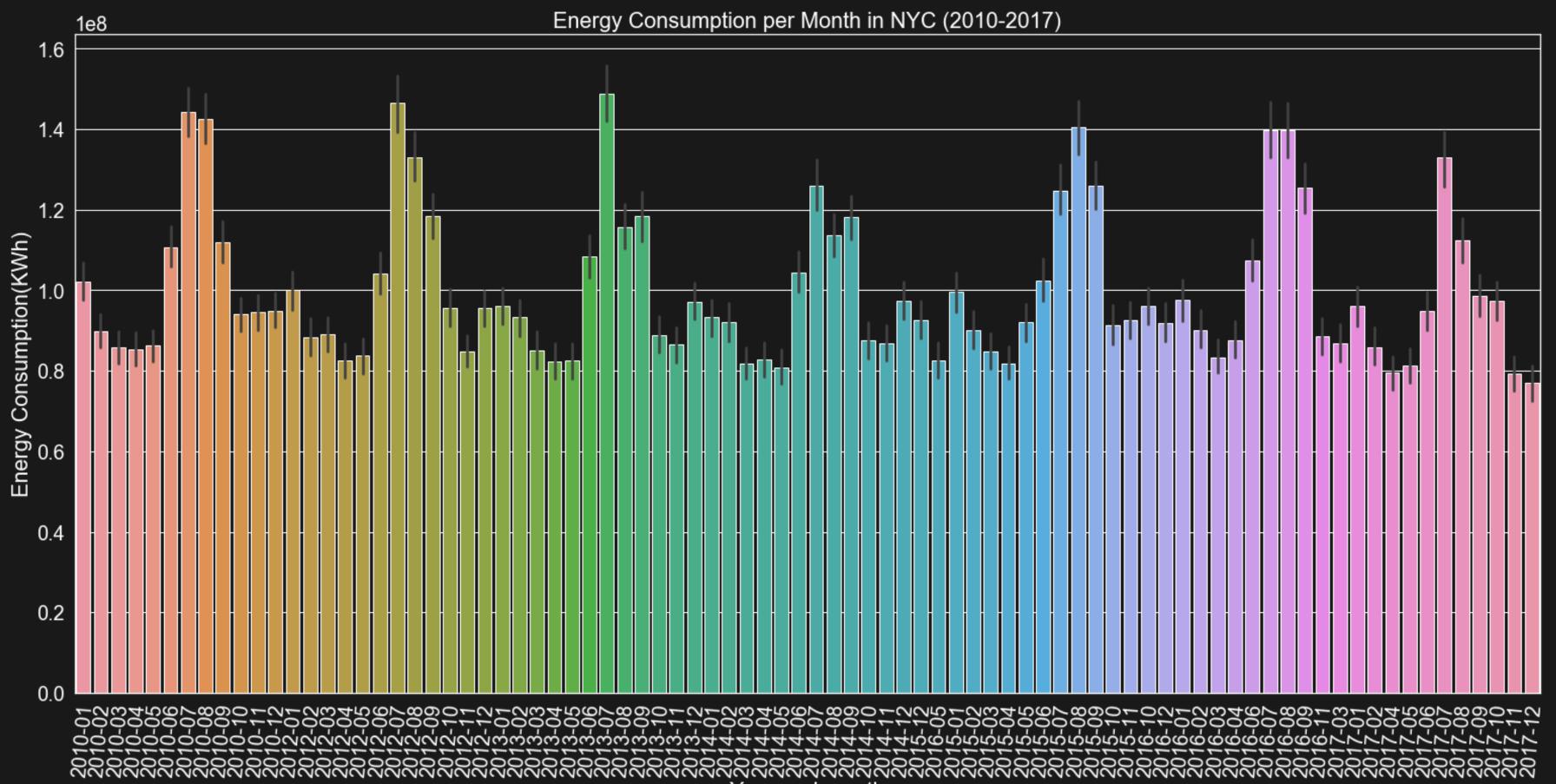
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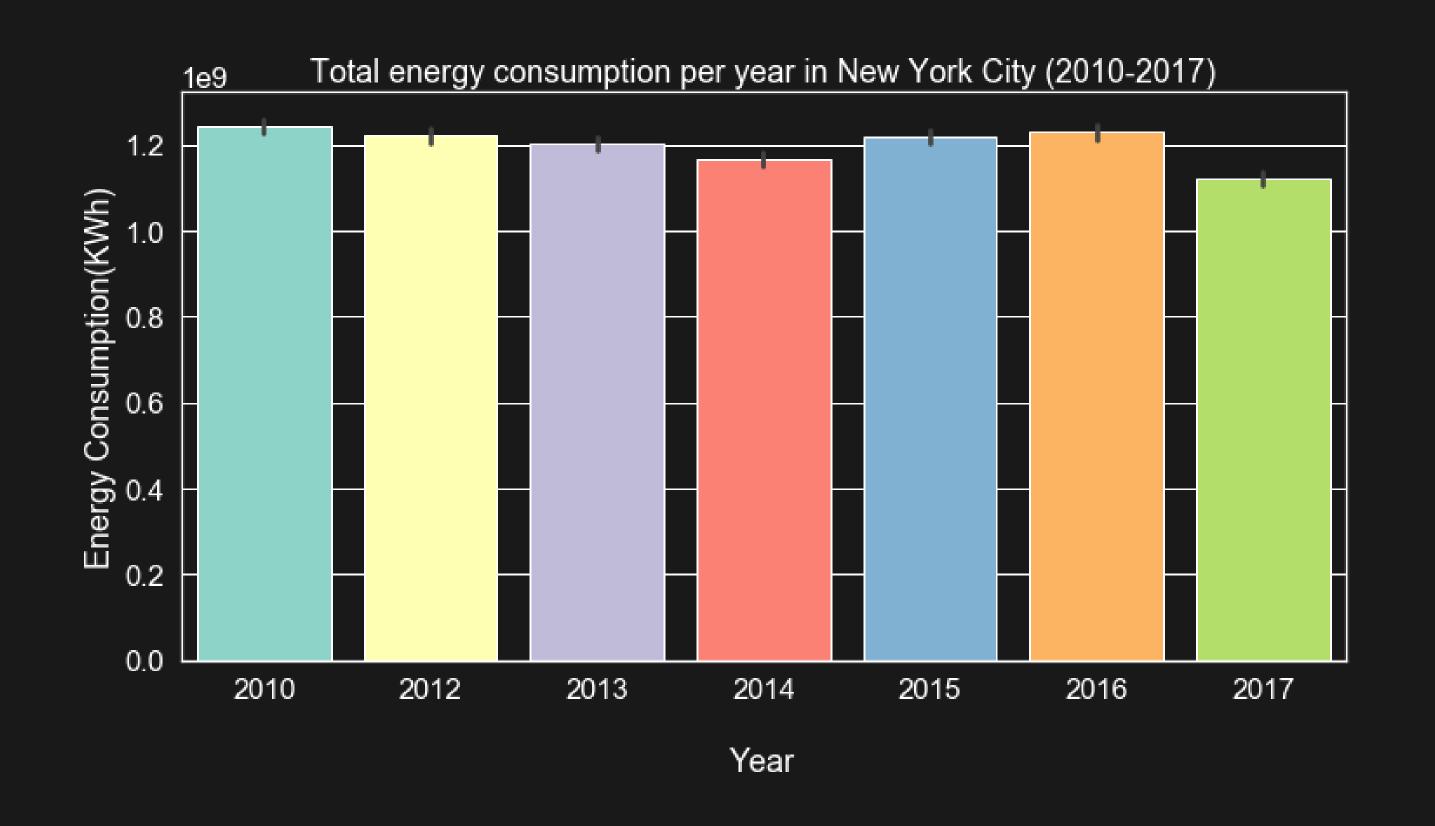
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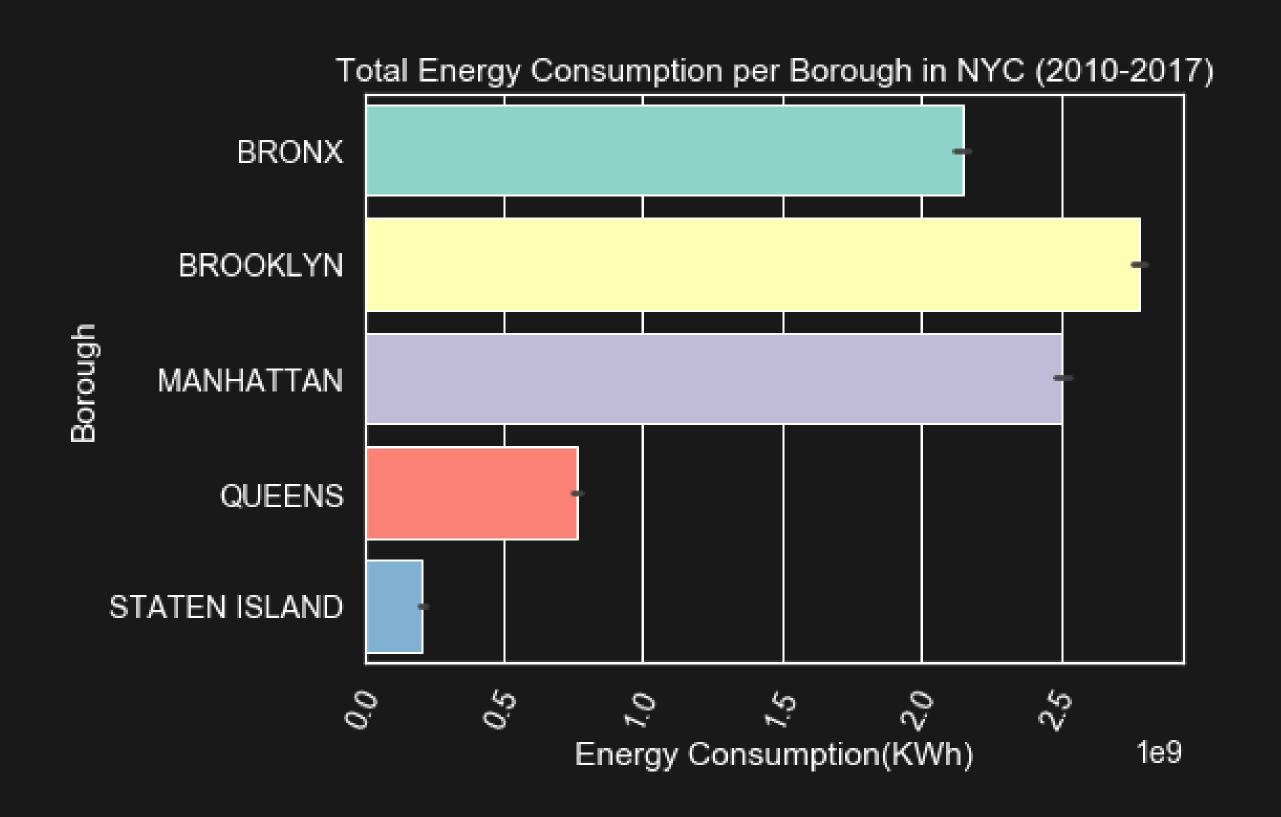
ENERGY CONSUMPTION PER MONTH

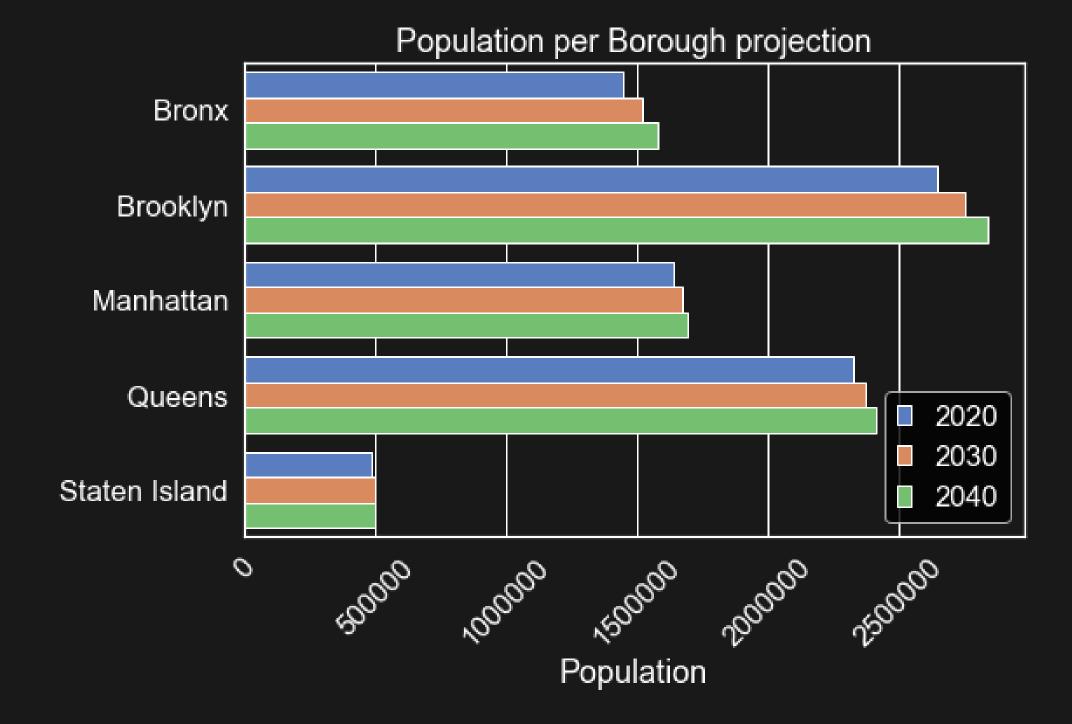


ENERGY CONSUMPTION PER YEAR



ENERGY CONSUMPTION PER BOROUGH





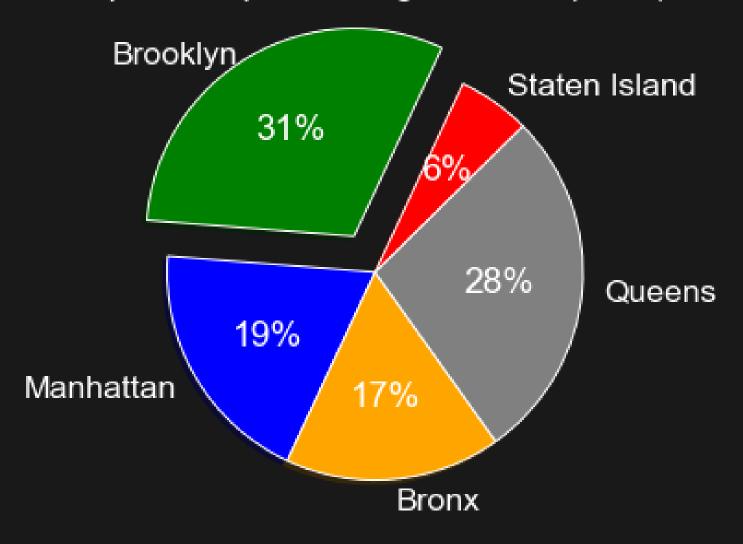
TOTAL NYC POPULATION IS

CURRENTLY 8.5 MILLION AND KEEPS

GROWING

ANALYSING NYC POPULATION

Population per borough in NYC (2019)



IS ENERGY BEING MORE WASTED OR NOT?

GET THREE SAMPLES FROM JULY IN 2015, 2017 AND 2019

COMPARE IF THE MEAN ENERGY CONSUMED IN JULY OF

RESULTS

TESTI

JULY 2015 AND JULY 2017

(SAMPLE SIZE = 500)

THERE ARE NO
SIGNIFICANT
DIFFERENCES BETWEEN
THESE TWO PERIODS OF
TIME

TEST 2

JULY 2015 AND JULY 2019

(SAMPLE SIZE = 500)

THERE ARE SIGNIFICANT
DIFFERENCES BETWEEN
THESE TWO PERIODS OF
TIME

CONCLUSIONS

JULY AND AUGUST ARE MONTHS WHERE ENERGY IS MORE CONSUMED

BROOKLYN IS THE BOROUGH WITH HIGHER ENERGY CONSUMPTION

AVERAGE ENERGY CONSUMPTION WAS SIGNIFICANTLY THE SAME IN JULY 2015 AND JULY 2017

AVERAGE ENERGY CONSUMPTION WAS SIGNIFICANTLY DIFFERENT IN JULY 2015 AND JULY 2019

FURTHER WORK...

ANALYSE ENERGY CONSUMPTION AND POPULATION TRENDS FOR THE NEXT 10 YEARS

REDUCE ENERGY CONSUMPTION IN NYC WITH BUILDING'S ENERGY EFFICIENCY IMPROVEMENTS WHERE EFFICIENCY IS LOWER THAN 50%

ANY QUESTIONS?