Homework 2

rbulkunde3 Bulkunde

January 2023

1 Introduction

2 Sample mean table

See table 1.

2.1 Python version

	Mean		Diff
	(s.d.)	(s.d.)	(p value)
Electricity (kWh)	1181.33	1086.75	-3.403304
	(454.31)	(423.96)	0.000692
Home (sqft)	1633.05	1657.55	0.565839
	(682.90)	(686.27)	0.571630
Temperature	79.89	79.89	0.016128
	(2.16)	(1.97)	0.987135
Observations	501	499	1000.000000

Table 1: Standard deviation are in paranthesis

2.2 Stata version

	(1)		(2)		(3)	
	mean	sd	mean	sd	b	t
electricity	1181.329	454.308	1086.745	423.960	94.584***	(3.404)
sqft	1633.052	682.904	1657.551	686.271	-24.499	(-0.566)
temp	79.891	2.163	79.893	1.968	-0.002	(-0.016)
Observations	501		499		1000	

Table 2: Summary statistics produced using Stata

	(1)	
VARIABLES	Ordinary least squares	
sqft	0.62**	
	(0.01)	
retrofit	-109.67**	
	(7.94)	
temp	3.26	
	(1.93)	
Constant	-83.60	
	(154.69)	
Observations	1,000	
R-squared	0.92	
Robust standard errors in parentheses		

Robust standard errors in parentheses ** p<0.01, * p<0.05

Table 3: Regression produced using Stata

3 STATA Regression

4 Graphs

- 4.1 Python version: Kernel Density Plot
- 4.2 Stata version: two-way scatterplot

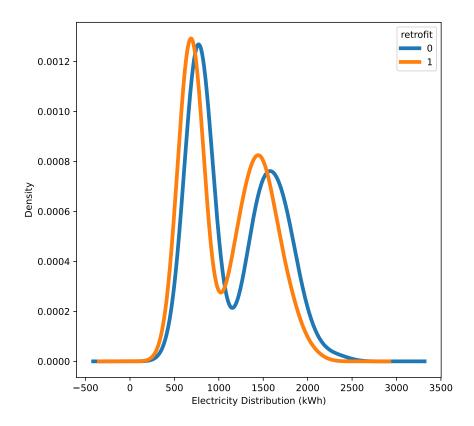


Figure 1: Sample kernel density plot of the outcome variable.

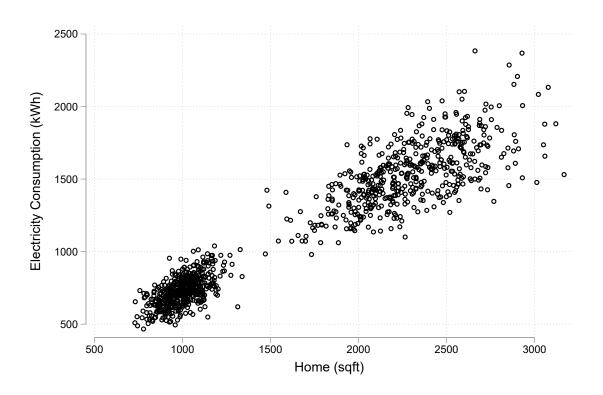


Figure 2: two-way scatterplot