ECON7103HW2

Sedat Ors

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1 Python

1. See Table ?? 1 for regression results. There is a significant difference in electricity usage between the two groups.

		Control Mean (Std dev)	Treat Mean (Std dev)	p-value
electricity	0	1181.33	1086.75	0.00
	1	454.31	423.96	
sqft	0	1633.05	1657.55	0.57
	1	682.90	686.27	
$_{ m temp}$	0	79.89	79.89	0.99
	1	2.16	1.97	

Table 1: Regression results with heteroskedasticity-robust standard errors.

- 2. See Figure ?? 1 for distribution of electricity usage for treated and control groups
- 3. See Table ?? 2 and Table ?? 3 for regression results

2 Stata

- 1. See table **??** 4
- 2. See table ?? 5
- 3. See figure ?? 2

	Estimates
Constant	-83.602758
sqft	0.615339
$_{ m temp}$	3.255075
retrofit	-109.666176

Table 2: Regression Results for OLS

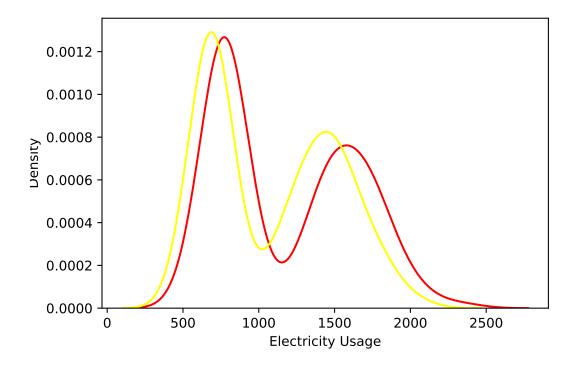


Figure 1: Electricity Usage

	Estimates
sqft	0.62
retrofit	-109.67
$_{ m temp}$	-83.60
Observations	1000.00

Table 3: Regression Results for OLS

	Control mean/sd	Treatment mean/sd	Comparison b
electricity	1181.33	1086.75	94.58***
	454.31	423.96	
sqft	1633.05	1657.55	-24.50
	682.90	686.27	
temp	79.89	79.89	-0.00
	2.16	1.97	
Observations	501	499	1000

Table 4: t-test for Treatment, Control and Difference

		(4)
		(1)
	VARIABLES	model1
	sqft	0.615***
		(0.006)
	retrofit	-109.666***
[]article		(7.948)
	$_{ m temp}$	3.255*
		(1.924)
	Constant	-83.603
		(154.360)
	Observations	1,000
	R-squared	0.919
	Standard error	s in parentheses
	*** p<0.01, **	p<0.05, * p<0.1

 ${\it Table 5: Regression \ results \ with \ heterosked a sticity-robust \ standard \ errors.}$

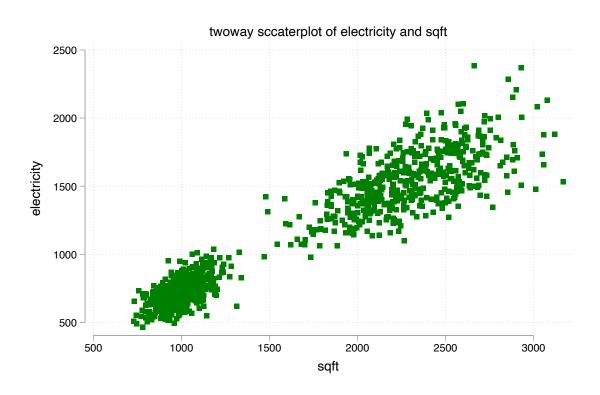


Figure 2: Scatterplot of electricity usage and home size