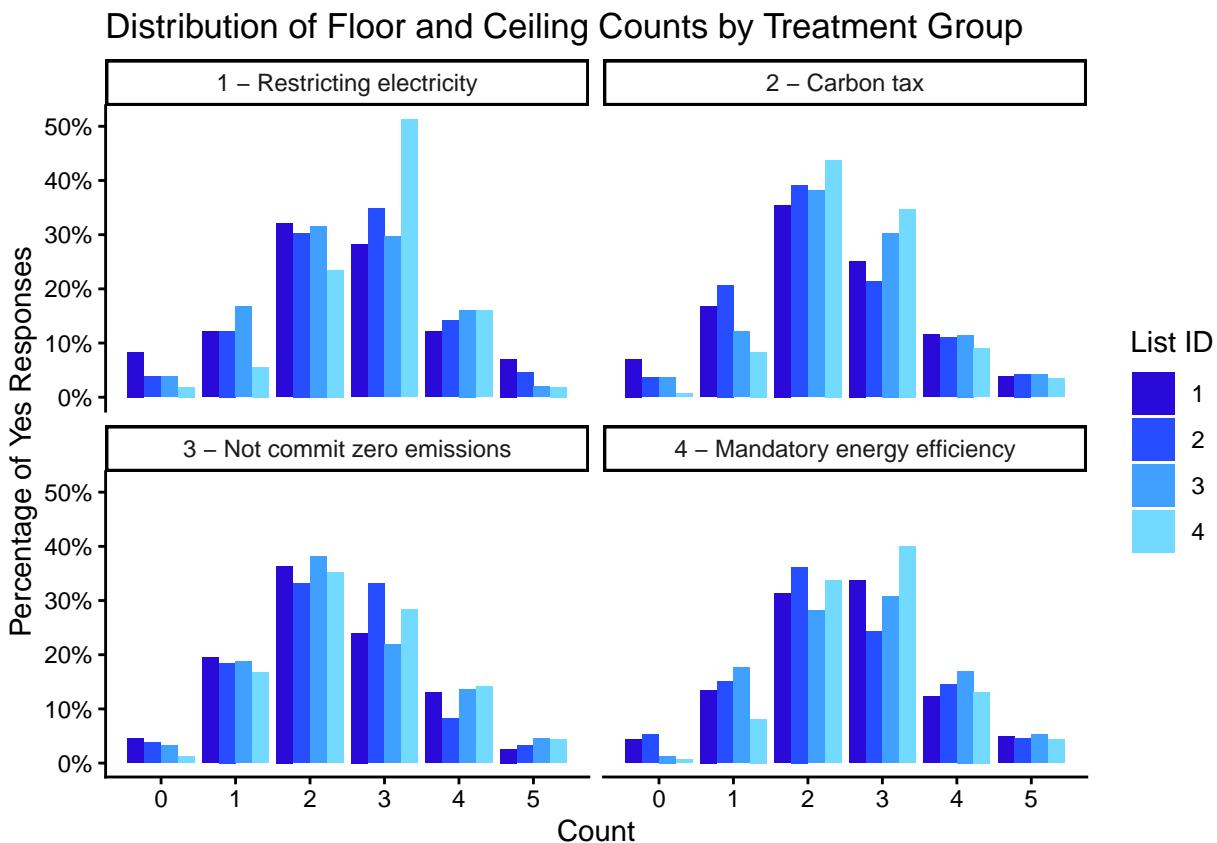


# Summary of List Experiment

## Validating the floor and ceiling of treatment groups

This step validates if the list experiment is working as intended. Selecting floor or ceiling counts (namely, 0 or 5) for the treatment groups will reveal the answer to the sensitive question. The below plot shows that the floor and ceiling all combined is around 10% of the total responses for each treatment group, which should be comparable to the existing literature if not lower.



## Overall percentage of support for sensitive statements

Below table shows the percentage of “yes” for each sensitive statement by control list:

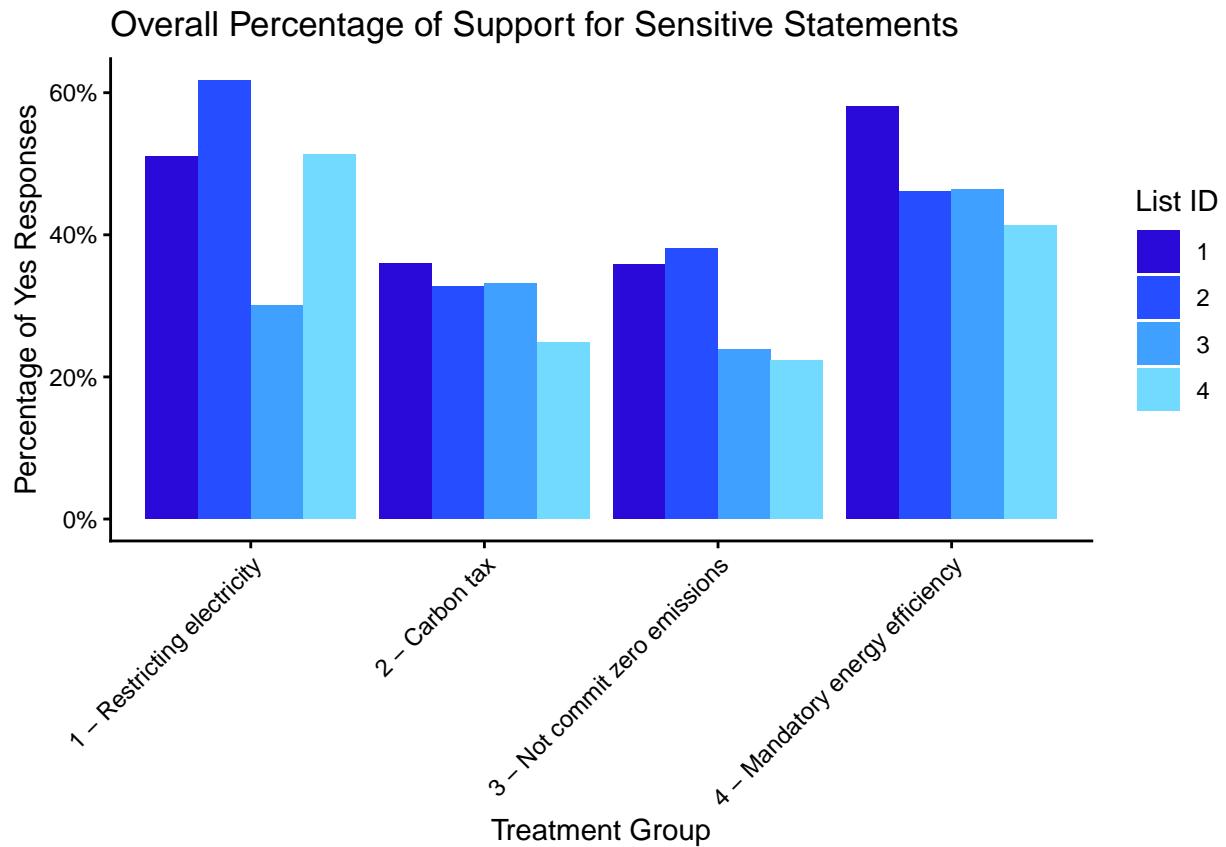
##	treatment	list_id	mean	sd
## 1	1 – Restricting electricity	1	0.5104881	0.10758364
## 2	1 – Restricting electricity	2	0.6170209	0.09722406
## 3	1 – Restricting electricity	3	0.3000848	0.10168917
## 4	1 – Restricting electricity	4	0.5130787	0.07911192
## 5	2 – Carbon tax	1	0.3589855	0.10321752
## 6	2 – Carbon tax	2	0.3267460	0.09632404
## 7	2 – Carbon tax	3	0.3317285	0.09083030

```

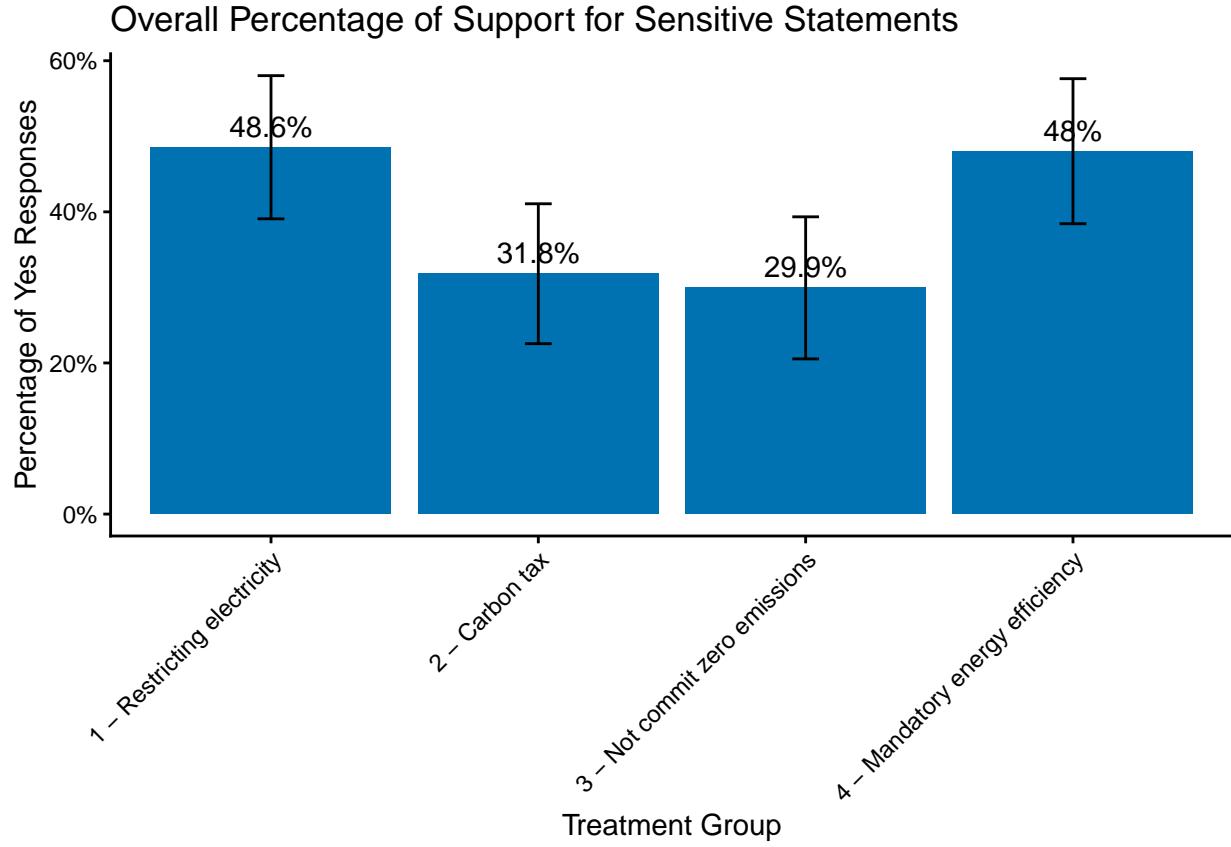
## 8          2 - Carbon tax      4 0.2486412 0.08504887
## 9 3 - Not commit zero emissions 1 0.3580804 0.09938556
## 10 3 - Not commit zero emissions 2 0.3805465 0.09210989
## 11 3 - Not commit zero emissions 3 0.2385630 0.09953159
## 12 3 - Not commit zero emissions 4 0.2232068 0.09282431
## 13 4 - Mandatory energy efficiency 1 0.5801750 0.10182590
## 14 4 - Mandatory energy efficiency 2 0.4606824 0.10286821
## 15 4 - Mandatory energy efficiency 3 0.4632472 0.10191623
## 16 4 - Mandatory energy efficiency 4 0.4133407 0.08451675

```

A plot of the above table. There appears to be some degrees of design effects, namely, the percentage of “yes” responses for the sensitive statements varies by the control list. However, there is not clear pattern that suggest a particular list more likely to get “yes” responses.



A plot of the average mean and 95% confidence level error bar for sensitive statement:



### A intercept only model

The estimated probability of answering “yes” to the sensitive statements is the inverse logit of the coefficient. The below table shows the estimated probability of answering “yes” to the sensitive statements by control list. The results are consistent with the overall percentage of support for sensitive statements. The standard errors of the control list effects were calculated using the delta method.

	statement	control	Prob. coefficient	SE
## 1	Restricting electricity	Control List 1	0.5107758	0.04311006 0.32628185
## 2	Restricting electricity	Control List 2	0.6117795	0.45479856 0.39011905
## 3	Restricting electricity	Control List 3	0.3139744	-0.78160360 0.42881446
## 4	Restricting electricity	Control List 4	0.4487110	-0.20588017 0.51384565
## 5		Carbon tax Control List 1	0.3792319	-0.49280952 0.36704356
## 6		Carbon tax Control List 2	0.3468141	-0.63307292 0.36978341
## 7		Carbon tax Control List 3	0.3466537	-0.63378114 0.38976732
## 8		Carbon tax Control List 4	0.1987311	-1.39424411 0.48598837
## 9	Not commit zero emissions	Control List 1	0.3699126	-0.53259173 0.39375179
## 10	Not commit zero emissions	Control List 2	0.3761272	-0.50601894 0.41236653
## 11	Not commit zero emissions	Control List 3	0.2978059	-0.85776815 0.37593594
## 12	Not commit zero emissions	Control List 4	0.2466019	-1.11681839 0.39634986
## 13	Mandatory energy efficiency	Control List 1	0.5750205	0.30236461 0.37024034
## 14	Mandatory energy efficiency	Control List 2	0.4666670	-0.13352992 0.36215684
## 15	Mandatory energy efficiency	Control List 3	0.4831090	-0.06758964 0.37222744
## 16	Mandatory energy efficiency	Control List 4	0.3582989	-0.58275485 0.43341620
## 17	Restricting electricity	Average	0.4694397	-0.12239379 0.01882246
## 18	Carbon tax	Average	0.3124958	-0.78847692 0.21014457

```

## 19 Not commit zero emissions      Average 0.3201028 -0.75329930 0.20303386
## 20 Mandatory energy efficiency  Average 0.4699419 -0.12037745 0.19740625

```

However, there seems to be some degree of design effects. Also, the design effects seems more pronounced for the sensitive statement 1, i.e., restricting electricity, than the others. The table below shows the p-value of the effect of control list on the probability of answering “yes” to the sensitive statements relative to each other. For example, the first row shows the effect of control list 1 minus the effect of control list 1, 2, 3, and 4 for each sensitive statement. The p-value is calculated using the delta method.

```

##          statement control_list vs. Control List 1, p-value
## 1      Restricting electricity Control List 1                  -
## 2      Restricting electricity Control List 2             < 0.001***
## 3      Restricting electricity Control List 3             < 0.001***
## 4      Restricting electricity Control List 4             < 0.001***
## 5          Carbon tax Control List 1                  -
## 6          Carbon tax Control List 2            0.783
## 7          Carbon tax Control List 3            0.794
## 8          Carbon tax Control List 4            0.139
## 9      Not commit zero emissions Control List 1                  -
## 10     Not commit zero emissions Control List 2            0.959
## 11     Not commit zero emissions Control List 3            0.544
## 12     Not commit zero emissions Control List 4            0.337
## 13    Mandatory energy efficiency Control List 1                  -
## 14    Mandatory energy efficiency Control List 2            0.445
## 15    Mandatory energy efficiency Control List 3            0.497
## 16    Mandatory energy efficiency Control List 4            0.113
##          vs. Control List 2, p-value vs. Control List 3, p-value
## 1          < 0.001***           < 0.001*** 
## 2          -                  < 0.001*** 
## 3          < 0.001***           - 
## 4          < 0.001***           < 0.001*** 
## 5          0.783              0.794
## 6          -                  0.999
## 7          0.999              - 
## 8          0.238              0.256
## 9          0.959              0.544
## 10         -                  0.513
## 11         0.513              - 
## 12         0.317              0.678
## 13         0.445              0.497
## 14         -                  0.906
## 15         0.906              - 
## 16         0.432              0.346
##          vs. Control List 4, p-value
## 1          < 0.001*** 
## 2          < 0.001*** 
## 3          < 0.001*** 
## 4          - 
## 5          0.139 
## 6          0.238 
## 7          0.256 
## 8          - 
## 9          0.337 
## 10         0.317 
## 11         0.678 

```

```

## 12          -
## 13      0.113
## 14      0.432
## 15      0.346
## 16          -

```

## Principal Component Analysis Results

The following section presents the principal component analysis (PCA) results for the climate attitude questions (Q10 and Q12). We use ordinal PCA (ordPCA) from the ordPens package, which handles ordinal variables by optimally scaling them before computing principal components.

### PCA for Q10 (Sustainable Behaviors)

Q10 measures the frequency of sustainable behaviors with 5-point scale (1 = Almost Always, 5 = Never).

```

##      Variable   PC1   PC2
## Q10_1    Q10_1  0.716  0.582
## Q10_2    Q10_2  0.814  0.372
## Q10_3    Q10_3  0.835  0.123
## Q10_4    Q10_4  0.865 -0.021
## Q10_5    Q10_5  0.797  0.076
## Q10_6    Q10_6  0.848 -0.103
## Q10_7    Q10_7  0.838 -0.231
## Q10_8    Q10_8  0.843 -0.154
## Q10_9    Q10_9  0.866 -0.088
## Q10_10   Q10_10 0.773  0.036
## Q10_11   Q10_11 0.869 -0.163
## Q10_12   Q10_12 0.861 -0.168
## Q10_13   Q10_13 0.839 -0.178

```

### PCA for Q12 (Climate Change Beliefs)

Q12 measures climate change beliefs with 5-point scale (1 = Strongly agree, 5 = Strongly disagree).

```

##      Variable   PC1   PC2
## Q12_1    Q12_1  0.621  0.571
## Q12_2    Q12_2 -0.596  0.318
## Q12_3    Q12_3 -0.567  0.341
## Q12_4    Q12_4  0.688  0.331
## Q12_5    Q12_5  0.672  0.367
## Q12_6    Q12_6 -0.570  0.406

```

### Variance Explained

```

##   Question Component Variance Explained (%)
## 1     Q10        PC1           56.43
## 2     Q10        PC2            4.35
## 3     Q12        PC1           37.07
## 4     Q12        PC2           11.90

```

## Demographic Effects

### Model using information treatment

	statement	variable	coefficient	SE
## 1	Restricting electricity	(Intercept)	0.143852412	0.5830805

```

## 2 Restricting electricity as.factor(list_id)2 0.472410623 0.5220837
## 3 Restricting electricity as.factor(list_id)3 -0.810837945 0.5496857
## 4 Restricting electricity as.factor(list_id)4 -0.086426114 0.6104463
## 5 Restricting electricity framing_effectconsequence -0.162295946 0.5968084
## 6 Restricting electricity framing_effectMetOffice 0.008723764 0.5663349
## 7 Restricting electricity framing_effectUN -0.737230966 0.6889059
## 8 Restricting electricity co2_value 0.025527179 0.1829441
## 9 Carbon tax (Intercept) -0.314339760 0.6237300
## 10 Carbon tax as.factor(list_id)2 -0.096687213 0.5409588
## 11 Carbon tax as.factor(list_id)3 -0.081491381 0.5400236
## 12 Carbon tax as.factor(list_id)4 -0.820199284 0.6337214
## 13 Carbon tax framing_effectconsequence -0.076353888 0.6031979
## 14 Carbon tax framing_effectMetOffice 0.248227958 0.5472269
## 15 Carbon tax framing_effectUN 0.124471225 0.6204745
## 16 Carbon tax co2_value -0.210387293 0.2093325
## 17 Not commit zero emissions (Intercept) -0.355469155 0.5958775
## 18 Not commit zero emissions as.factor(list_id)2 0.057763381 0.5590289
## 19 Not commit zero emissions as.factor(list_id)3 -0.403839761 0.5557098
## 20 Not commit zero emissions as.factor(list_id)4 -0.565598188 0.5498179
## 21 Not commit zero emissions framing_effectconsequence 0.138993319 0.5814990
## 22 Not commit zero emissions framing_effectMetOffice 0.184667666 0.5139842
## 23 Not commit zero emissions framing_effectUN 0.093743887 0.6080815
## 24 Not commit zero emissions co2_value -0.157669878 0.1721928
## 25 Mandatory energy efficiency (Intercept) 0.289057764 0.6312974
## 26 Mandatory energy efficiency as.factor(list_id)2 -0.454395080 0.5245945
## 27 Mandatory energy efficiency as.factor(list_id)3 -0.372258127 0.5371030
## 28 Mandatory energy efficiency as.factor(list_id)4 -0.813569280 0.6022336
## 29 Mandatory energy efficiency framing_effectconsequence 0.366958492 0.5921964
## 30 Mandatory energy efficiency framing_effectMetOffice 0.081113272 0.5495788
## 31 Mandatory energy efficiency framing_effectUN 0.483928595 0.5846447
## 32 Mandatory energy efficiency co2_value -0.125162350 0.1739478

## p star
## 1 0.8051319
## 2 0.3655416
## 3 0.1401873
## 4 0.8874129
## 5 0.7856683
## 6 0.9877100
## 7 0.2845529
## 8 0.8890271
## 9 0.6142841
## 10 0.8581473
## 11 0.8800519
## 12 0.1955762
## 13 0.8992714
## 14 0.6501091
## 15 0.8410063
## 16 0.3148782
## 17 0.5508096
## 18 0.9177026
## 19 0.4674037
## 20 0.3036202
## 21 0.8110855
## 22 0.7193807

```

```

## 23 0.8774809
## 24 0.3598457
## 25 0.6470394
## 26 0.3863895
## 27 0.4882561
## 28 0.1767211
## 29 0.5354838
## 30 0.8826650
## 31 0.4078228
## 32 0.4718084

```

### Climate Awareness, Q5

For this part, we planed to include both Q5 and Q7, but Q7 will result in singular matrix. For climate\_important, Q5 >= 4, i.e., important or very important.

	statement	variable	coefficient	SE
## 1	Restricting electricity	(Intercept)	-0.65524613	0.4856761
## 2	Restricting electricity	as.factor(list_id)2	0.39956912	0.5253959
## 3	Restricting electricity	as.factor(list_id)3	-0.91682559	0.5719608
## 4	Restricting electricity	as.factor(list_id)4	-0.17542603	0.6961455
## 5	Restricting electricity	climate_importantyes	0.98801383	0.4657548
## 6	Carbon tax	(Intercept)	-1.36836574	0.5615023
## 7	Carbon tax	as.factor(list_id)2	-0.15126938	0.5426783
## 8	Carbon tax	as.factor(list_id)3	-0.09780477	0.5697829
## 9	Carbon tax	as.factor(list_id)4	-1.17901289	0.6380318
## 10	Carbon tax	climate_importantyes	1.18494080	0.5371761
## 11	Not commit zero emissions	(Intercept)	-0.41736482	0.4918950
## 12	Not commit zero emissions	as.factor(list_id)2	-0.02515698	0.5695342
## 13	Not commit zero emissions	as.factor(list_id)3	-0.33596856	0.5408032
## 14	Not commit zero emissions	as.factor(list_id)4	-0.59466910	0.5598084
## 15	Not commit zero emissions	climate_importantyes	-0.18009303	0.4338537
## 16	Mandatory energy efficiency	(Intercept)	-0.33725556	0.5137937
## 17	Mandatory energy efficiency	as.factor(list_id)2	-0.37328152	0.5303387
## 18	Mandatory energy efficiency	as.factor(list_id)3	-0.42220723	0.5420185
## 19	Mandatory energy efficiency	as.factor(list_id)4	-0.90851970	0.5971988
## 20	Mandatory energy efficiency	climate_importantyes	0.84570322	0.4531154
##	p star			
## 1	0.17729131			
## 2	0.44694942			
## 3	0.10894532			
## 4	0.80104400			
## 5	0.03389510	**		
## 6	0.01481080	**		
## 7	0.78043979			
## 8	0.86371058			
## 9	0.06461818	*		
## 10	0.02739310	**		
## 11	0.39616868			
## 12	0.96476798			
## 13	0.53444178			
## 14	0.28811197			
## 15	0.67806809			
## 16	0.51156507			
## 17	0.48152309			

```

## 18 0.43600712
## 19 0.12818406
## 20 0.06198276 *

```

### Climate Attitudes, First Principal Component of Q12

	statement	variable	coefficient	SE
## 1	Restricting electricity	(Intercept)	0.04426806	0.3291147
## 2	Restricting electricity as.factor(list_id)2	0.43696710	0.5052746	
## 3	Restricting electricity as.factor(list_id)3	-0.85373391	0.5436284	
## 4	Restricting electricity as.factor(list_id)4	-0.26229795	0.6099979	
## 5	Restricting electricity	Q12_PC1	0.01938051	0.1228659
## 6	Carbon tax	(Intercept)	-0.60503594	0.4117093
## 7	Carbon tax as.factor(list_id)2	-0.14477647	0.5388347	
## 8	Carbon tax as.factor(list_id)3	-0.18745576	0.5568905	
## 9	Carbon tax as.factor(list_id)4	-0.76192882	0.6288474	
## 10	Carbon tax	Q12_PC1	-0.21406102	0.1707182
## 11	Not commit zero emissions	(Intercept)	-0.69336209	0.4304301
## 12	Not commit zero emissions as.factor(list_id)2	0.02372272	0.6034149	
## 13	Not commit zero emissions as.factor(list_id)3	-0.08840773	0.5703849	
## 14	Not commit zero emissions as.factor(list_id)4	-0.58553591	0.5809146	
## 15	Not commit zero emissions	Q12_PC1	-0.35850019	0.1553459
## 16	Mandatory energy efficiency	(Intercept)	0.28183963	0.3703445
## 17	Mandatory energy efficiency as.factor(list_id)2	-0.40238933	0.5200152	
## 18	Mandatory energy efficiency as.factor(list_id)3	-0.38255751	0.5247836	
## 19	Mandatory energy efficiency as.factor(list_id)4	-0.85886916	0.5731129	
## 20	Mandatory energy efficiency	Q12_PC1	-0.02376833	0.1146017
##	p star			
## 1	0.89300207			
## 2	0.38714244			
## 3	0.11631357			
## 4	0.66719701			
## 5	0.87466393			
## 6	0.14167806			
## 7	0.78817257			
## 8	0.73640976			
## 9	0.22565497			
## 10	0.20988372			
## 11	0.10721048			
## 12	0.96863996			
## 13	0.87682398			
## 14	0.31347595			
## 15	0.02101281	**		
## 16	0.44664505			
## 17	0.43904725			
## 18	0.46601299			
## 19	0.13397644			
## 20	0.83569786			

### Climate Attitudes, First Principal Component of Q10

	statement	variable	coefficient	SE
## 1	Restricting electricity	(Intercept)	0.01902803	0.35391163
## 2	Restricting electricity as.factor(list_id)2	0.41031970	0.54570123	
## 3	Restricting electricity as.factor(list_id)3	-0.83393610	0.58212053	

```

## 4      Restricting electricity as.factor(list_id)4 -0.10308374 0.68015509
## 5      Restricting electricity                  Q10_PC1 -0.15704142 0.06782718
## 6          Carbon tax              (Intercept) -0.18597560 0.43167768
## 7          Carbon tax as.factor(list_id)2 -0.94826039 0.69059840
## 8          Carbon tax as.factor(list_id)3 -0.34943134 0.63936988
## 9          Carbon tax as.factor(list_id)4 -2.01351508 0.75112219
## 10         Carbon tax                  Q10_PC1 -0.35732380 0.08576400
## 11 Not commit zero emissions              (Intercept) -0.50160995 0.41942352
## 12 Not commit zero emissions as.factor(list_id)2 -0.05200241 0.60952157
## 13 Not commit zero emissions as.factor(list_id)3 -0.39592085 0.57289017
## 14 Not commit zero emissions as.factor(list_id)4 -0.76556778 0.59941330
## 15 Not commit zero emissions                  Q10_PC1 -0.11624578 0.06576556
## 16 Mandatory energy efficiency             (Intercept) 0.44596729 0.41191764
## 17 Mandatory energy efficiency as.factor(list_id)2 -0.53984009 0.57022171
## 18 Mandatory energy efficiency as.factor(list_id)3 -0.71839724 0.58644405
## 19 Mandatory energy efficiency as.factor(list_id)4 -1.17003540 0.65254111
## 20 Mandatory energy efficiency                  Q10_PC1 -0.17590796 0.06750053

##          p star
## 1  9.571225e-01
## 2  4.521035e-01
## 3  1.519770e-01
## 4  8.795346e-01
## 5  2.059558e-02 ** 
## 6  6.665989e-01
## 7  1.697214e-01
## 8  5.847054e-01
## 9  7.347366e-03 ***
## 10 3.095001e-05 ***
## 11 2.317157e-01
## 12 9.320096e-01
## 13 4.895066e-01
## 14 2.015334e-01
## 15 7.713142e-02 *
## 16 2.789588e-01
## 17 3.437817e-01
## 18 2.205731e-01
## 19 7.296577e-02 *
## 20 9.160020e-03 ***

```

### Climate Attitudes, First Principal Components of Q12 and Q10

	statement	variable	coefficient	SE
## 1	Restricting electricity	(Intercept)	0.03883589	0.36402864
## 2	Restricting electricity as.factor(list_id)2		0.43019717	0.54263672
## 3	Restricting electricity as.factor(list_id)3		-0.81406418	0.58747034
## 4	Restricting electricity as.factor(list_id)4		-0.11808889	0.69542018
## 5	Restricting electricity	Q12_PC1	0.11344109	0.14623988
## 6	Restricting electricity	Q10_PC1	-0.18246308	0.07542029
## 7	Carbon tax	(Intercept)	-0.20783020	0.44968241
## 8	Carbon tax as.factor(list_id)2		-0.93602822	0.69372896
## 9	Carbon tax as.factor(list_id)3		-0.33672064	0.64506955
## 10	Carbon tax as.factor(list_id)4		-1.98627435	0.76712372
## 11	Carbon tax	Q12_PC1	-0.04915802	0.17241437
## 12	Carbon tax	Q10_PC1	-0.35706967	0.08774831

```

## 13 Not commit zero emissions (Intercept) -0.60124025 0.45550172
## 14 Not commit zero emissions as.factor(list_id)2 -0.04478300 0.63933068
## 15 Not commit zero emissions as.factor(list_id)3 -0.18875442 0.59956809
## 16 Not commit zero emissions as.factor(list_id)4 -0.80695174 0.63733096
## 17 Not commit zero emissions Q12_PC1 -0.32136352 0.15342918
## 18 Not commit zero emissions Q10_PC1 -0.10120939 0.06786773
## 19 Mandatory energy efficiency (Intercept) 0.43834858 0.41305379
## 20 Mandatory energy efficiency as.factor(list_id)2 -0.51089096 0.56849869
## 21 Mandatory energy efficiency as.factor(list_id)3 -0.70166807 0.59008643
## 22 Mandatory energy efficiency as.factor(list_id)4 -1.15230716 0.65282388
## 23 Mandatory energy efficiency Q12_PC1 0.06300599 0.13176659
## 24 Mandatory energy efficiency Q10_PC1 -0.19062839 0.07190190
## p star
## 1 9.150400e-01
## 2 4.279000e-01
## 3 1.658351e-01
## 4 8.651600e-01
## 5 4.379148e-01
## 6 1.555111e-02 **
## 7 6.439586e-01
## 8 1.772500e-01
## 9 6.016764e-01
## 10 9.618550e-03 ***
## 11 7.755556e-01
## 12 4.716508e-05 ***
## 13 1.868512e-01
## 14 9.441565e-01
## 15 7.529004e-01
## 16 2.054621e-01
## 17 3.621192e-02 **
## 18 1.358896e-01
## 19 2.885815e-01
## 20 3.688301e-01
## 21 2.344028e-01
## 22 7.754497e-02 *
## 23 6.325338e-01
## 24 8.019951e-03 ***

```

### Combined Model: First Principal Components of Q12, Q10 and Demographics

	statement	variable	coefficient	SE
## 1	Restricting electricity	(Intercept)	-0.725845213	0.89129787
## 2	Restricting electricity	as.factor(list_id)2	0.546240066	0.61120461
## 3	Restricting electricity	as.factor(list_id)3	-0.866133605	0.66882281
## 4	Restricting electricity	as.factor(list_id)4	0.017284759	0.79427042
## 5	Restricting electricity	Q12_PC1	0.106289438	0.18405678
## 6	Restricting electricity	Q10_PC1	-0.220716958	0.10909472
## 7	Restricting electricity	where_liveRuralarea	0.042218592	0.84021589
## 8	Restricting electricity	where_liveTownorsuburb	-0.076137719	0.67388826
## 9	Restricting electricity	age35_54	1.436092998	0.68783777
## 10	Restricting electricity	age55_	0.613660404	0.80235870
## 11	Restricting electricity	is_manyes	-0.140177179	0.49907801
## 12	Restricting electricity	higher_educationyes	-0.595043384	0.64322266
## 13	Restricting electricity	income20_30k	0.071369272	0.73908576

```

## 14 Restricting electricity income30_40k -0.385051589 0.82665595
## 15 Restricting electricity income40k_ 0.719939083 0.76035384
## 16 Restricting electricity income50_60k 2.369791223 1.24877499
## 17 Restricting electricity incomenot_specified -0.692583663 1.25799699
## 18 Carbon tax (Intercept) -0.550222896 0.92416536
## 19 Carbon tax as.factor(list_id)2 -1.309082115 0.77578007
## 20 Carbon tax as.factor(list_id)3 -0.597543745 0.74263230
## 21 Carbon tax as.factor(list_id)4 -2.497983784 0.90613622
## 22 Carbon tax Q12_PC1 0.007963280 0.17711343
## 23 Carbon tax Q10_PC1 -0.382108842 0.10210525
## 24 Carbon tax where_liveRuralarea 0.471996900 0.85069203
## 25 Carbon tax where_liveTownorsuburb -0.690483155 0.60490661
## 26 Carbon tax age35_54 0.875542436 0.66785961
## 27 Carbon tax age55_ 0.063063822 0.79442975
## 28 Carbon tax is_manyes -0.699154606 0.58886492
## 29 Carbon tax higher_educationyes -0.028373422 0.60937948
## 30 Carbon tax income20_30k 0.807722418 0.87181481
## 31 Carbon tax income30_40k 0.671411217 1.01572238
## 32 Carbon tax income40k_ 1.507502110 0.93119488
## 33 Carbon tax income50_60k 0.828840828 1.07190789
## 34 Carbon tax incomenot_specified -0.991141807 1.38788167
## 35 Not commit zero emissions (Intercept) -0.673341830 0.88675335
## 36 Not commit zero emissions as.factor(list_id)2 -0.231735253 0.70481794
## 37 Not commit zero emissions as.factor(list_id)3 -0.226525870 0.65539326
## 38 Not commit zero emissions as.factor(list_id)4 -0.938537342 0.71545146
## 39 Not commit zero emissions Q12_PC1 -0.346669733 0.15737223
## 40 Not commit zero emissions Q10_PC1 -0.125681874 0.08089077
## 41 Not commit zero emissions where_liveRuralarea 0.146994888 0.73857916
## 42 Not commit zero emissions where_liveTownorsuburb 0.193734795 0.55772259
## 43 Not commit zero emissions age35_54 0.711568090 0.56927711
## 44 Not commit zero emissions age55_ -0.010332754 0.64356479
## 45 Not commit zero emissions is_manyes 0.345494825 0.46904615
## 46 Not commit zero emissions higher_educationyes 0.028938416 0.56092497
## 47 Not commit zero emissions income20_30k 0.316917869 0.73266994
## 48 Not commit zero emissions income30_40k -0.910265560 0.84912564
## 49 Not commit zero emissions income40k_ -0.970416522 0.78138933
## 50 Not commit zero emissions income50_60k 0.267232405 0.92146819
## 51 Not commit zero emissions incomenot_specified -0.343785397 0.94179558
## 52 Mandatory energy efficiency (Intercept) 0.424153956 0.93457771
## 53 Mandatory energy efficiency as.factor(list_id)2 -0.784121948 0.66074122
## 54 Mandatory energy efficiency as.factor(list_id)3 -0.745080819 0.63012532
## 55 Mandatory energy efficiency as.factor(list_id)4 -1.404232091 0.75467631
## 56 Mandatory energy efficiency Q12_PC1 0.083586112 0.14877673
## 57 Mandatory energy efficiency Q10_PC1 -0.194180730 0.08673095
## 58 Mandatory energy efficiency where_liveRuralarea 0.127210970 0.94535758
## 59 Mandatory energy efficiency where_liveTownorsuburb 0.276121331 0.56748830
## 60 Mandatory energy efficiency age35_54 0.009346443 0.55300990
## 61 Mandatory energy efficiency age55_ -0.471637527 0.73218506
## 62 Mandatory energy efficiency is_manyes 0.628475287 0.50658771
## 63 Mandatory energy efficiency higher_educationyes -0.369527255 0.53203497
## 64 Mandatory energy efficiency income20_30k 0.267440799 0.78390244
## 65 Mandatory energy efficiency income30_40k -0.246366944 0.78863019
## 66 Mandatory energy efficiency income40k_ 0.140518601 0.73804033
## 67 Mandatory energy efficiency income50_60k 0.266687854 0.90523610

```

```

## 68 Mandatory energy efficiency      incomenot_specified -1.581123765 1.33256549
##          p star
## 1  0.415433681
## 2  0.371476727
## 3  0.195316066
## 4  0.982637961
## 5  0.563614039
## 6  0.043055819 ** 
## 7  0.959925307
## 8  0.910044266
## 9  0.036812561 ** 
## 10 0.444378420
## 11 0.778808364
## 12 0.354915431
## 13 0.923072438
## 14 0.641362779
## 15 0.343716528
## 16 0.057736571 *
## 17 0.581945778
## 18 0.551594320
## 19 0.091518830 *
## 20 0.421033597
## 21 0.005838039 ***
## 22 0.964138019
## 23 0.000182341 ***
## 24 0.579004960
## 25 0.253674107
## 26 0.189868648
## 27 0.936728386
## 28 0.235112466
## 29 0.962862980
## 30 0.354194543
## 31 0.508600493
## 32 0.105470925
## 33 0.439381037
## 34 0.475140618
## 35 0.447652875
## 36 0.742316392
## 37 0.729618164
## 38 0.189583795
## 39 0.027604286 **
## 40 0.120250439
## 41 0.842244068
## 42 0.728315123
## 43 0.211317703
## 44 0.987190116
## 45 0.461371559
## 46 0.958854966
## 47 0.665340245
## 48 0.283718510
## 49 0.214269159
## 50 0.771810733
## 51 0.715087622
## 52 0.649939981

```

```
## 53 0.235333829
## 54 0.237034031
## 55 0.062785453      *
## 56 0.574236978
## 57 0.025163325    **
## 58 0.892956714
## 59 0.626564898
## 60 0.986515562
## 61 0.519477709
## 62 0.214751671
## 63 0.487334569
## 64 0.732978674
## 65 0.754737637
## 66 0.849000240
## 67 0.768294989
## 68 0.235414592
```