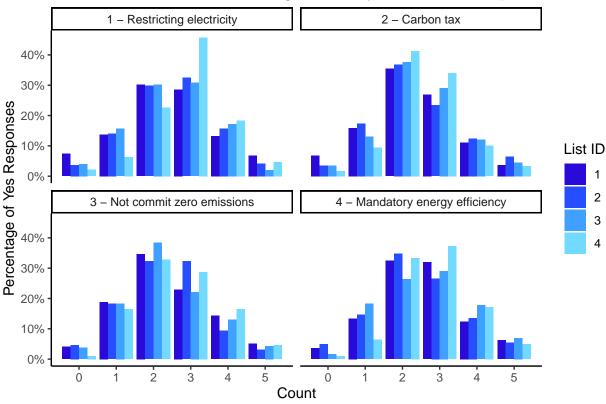
Summary of List Experiment

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.





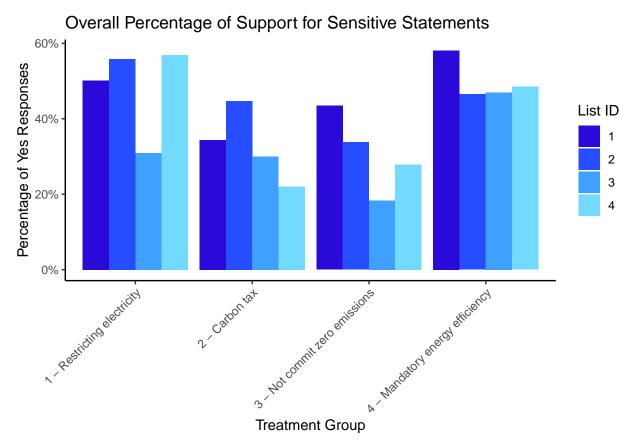
Overall percentage of support for sensitive statements

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

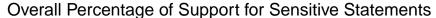
##		treatmer	nt list_id	mean	sd
##	1	1 - Restricting electricit	y 1	0.5015271	0.10152792
##	2	1 - Restricting electricit	y 2	0.5583330	0.09167678
##	3	1 - Restricting electricit	y 3	0.3097951	0.08847535
##	4	1 - Restricting electricit	y 4	0.5694451	0.07875690
##	5	2 - Carbon ta	ix 1	0.3441390	0.09298441

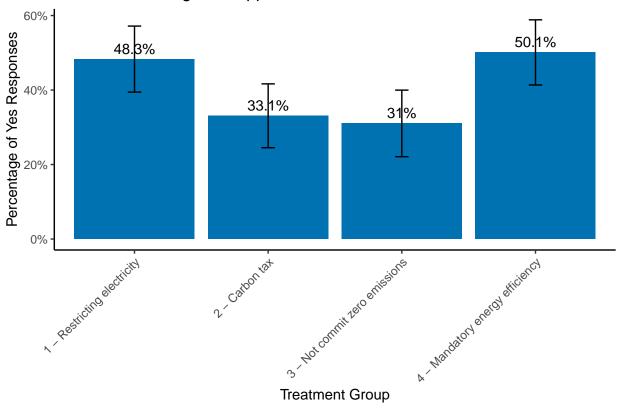
```
## 6
                         - Carbon tax
                                             2 0.4470026 0.09124424
## 7
                         - Carbon tax
                                             3 0.2998976 0.08522557
## 8
                       2 - Carbon tax
                                             4 0.2206746 0.07801469
## 9
                                             1 0.4345786 0.09427211
        3 - Not commit zero emissions
##
  10
        3 - Not commit zero emissions
                                             2 0.3378175 0.08670809
## 11
        3 - Not commit zero emissions
                                             3 0.1835561 0.09440420
        3 - Not commit zero emissions
                                             4 0.2788052 0.08906561
## 13 4 - Mandatory energy efficiency
                                             1 0.5811699 0.09278478
## 14 4 - Mandatory energy efficiency
                                             2 0.4649293 0.09337199
## 15 4 - Mandatory energy efficiency
                                             3 0.4701617 0.09630434
## 16 4 - Mandatory energy efficiency
                                             4 0.4851863 0.07511538
```

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.

```
##
                                                                                 SF.
                        statement
                                         control
                                                     Prob.
                                                              coefficient
##
  1
          Restricting electricity Control List 1 0.5037517
                                                             1.500698e-02 0.2978413
  2
                                                             2.372446e-01 0.3417785
##
          Restricting electricity Control List 2 0.5590345
##
  3
          Restricting electricity Control List 3 0.3316474 -7.007435e-01 0.3724475
## 4
          Restricting electricity Control List 4 0.5656498 2.641241e-01 0.3986168
## 5
                       Carbon tax Control List 1 0.3614113 -5.692438e-01 0.3424446
                       Carbon tax Control List 2 0.4530782 -1.882413e-01 0.3114529
## 6
##
  7
                       Carbon tax Control List 3 0.3323109 -6.977517e-01 0.3458617
## 8
                       Carbon tax Control List 4 0.2012282 -1.378636e+00 0.4334045
## 9
        Not commit zero emissions Control List 1 0.4433695 -2.274983e-01 0.3141549
## 10
        Not commit zero emissions Control List 2 0.3440396 -6.453438e-01 0.3693499
## 11
        Not commit zero emissions Control List 3 0.2648701 -1.020808e+00 0.3514574
        Not commit zero emissions Control List 4 0.3012282 -8.414563e-01 0.3466860
## 13 Mandatory energy efficiency Control List 1 0.5767541 3.094627e-01 0.3382995
## 14 Mandatory energy efficiency Control List 2 0.4729547 -1.082867e-01 0.3275894
  15 Mandatory energy efficiency Control List 3 0.4999935 -2.606897e-05 0.3168785
  16 Mandatory energy efficiency Control List 4 0.4646243 -1.417397e-01 0.3755386
## 17
          Restricting electricity
                                         Average 0.4884791 -4.609195e-02 0.0168345
```

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***
                                                                     < 0.001***
## 3
          Restricting electricity Control List 3
## 4
          Restricting electricity Control List 4
                                                                     < 0.001***
## 5
                        Carbon tax Control List 1
## 6
                        Carbon tax Control List 2
                                                                          0.401
## 7
                        Carbon tax Control List 3
                                                                          0.788
## 8
                        Carbon tax Control List 4
                                                                          0.104
## 9
        Not commit zero emissions Control List 1
## 10
        Not commit zero emissions Control List 2
                                                                          0.367
## 11
        Not commit zero emissions Control List 3
                                                                          0.103
## 12
        Not commit zero emissions Control List 4
                                                                          0.266
   13 Mandatory energy efficiency Control List 1
                                                                          0.389
   14 Mandatory energy efficiency Control List 2
  15 Mandatory energy efficiency Control List 3
                                                                          0.511
  16 Mandatory energy efficiency Control List 4
                                                                          0.335
##
      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***
                             0.583
## 5
                             0.401
                                                          0.788
## 6
                                                          0.313
## 7
                             0.313
## 8
                           0.023**
                                                          0.212
## 9
                             0.367
                                                          0.103
## 10
                                                            0.42
                              0.42
## 11
                                                          0.746
## 12
                             0.713
## 13
                             0.389
                                                          0.511
## 14
                                                           0.832
## 15
                             0.832
## 16
                             0.947
                                                          0.774
##
      vs. Control List 4, p-value
                        < 0.001***
## 1
## 2
                             0.583
                        < 0.001***
## 3
## 4
                             0.104
## 5
## 6
                           0.023**
## 7
                             0.212
## 8
                             0.266
## 9
```

10	0.713
11	0.746
12	-
13	0.335
14	0.947
15	0.774
16	-
	10 11 12 13 14 15