Log file of replicating the results in the appendix

Executing the Benchmark case CES = 1.5 wage price_d price_c

0.4847 0.5618 0.6602

ld ls outlhs outrhs out

0.9823 0.9817 0.2960 0.2953 0.0000

gamma = 0.93

Whole Distribution

Firm Size: Model vs Data

0.5081 0.2293 0.1099 0.1264 0.0263 0.4698 0.2797 0.1290 0.1020 0.0195

Employment Size: Model vs Data

 0.1066
 0.1343
 0.1446
 0.4090
 0.2055

 0.0864
 0.1611
 0.1655
 0.3501
 0.2369

Polluting Sector

Firm Size and Employment Share

0.4372 0.2596 0.1234 0.1525 0.0273

0.0856 0.1270 0.1354 0.4456 0.2064

Non-polluting Sector

Firm Size and Employment Share

0.5250 0.2221 0.1067 0.1202 0.0261

0.1129 0.1365 0.1473 0.3981 0.2052

Average Tax =

0.1300

Yd, Yc, Y, Yd_share

0.5661 1.9123 1.3784 0.2012

Clean Share

0.5618

Executing the no-dirty tax case CES = 1.5

wage price_d price_c

0.5430 0.4774 0.6756

ld ls outlhs outrhs out

0.9838 0.9843 0.4066 0.4071 0.0000

gamma = 0.93

Whole Distribution

Firm Size: Model vs Data

	0.2227 0.2797		0.1498 0.1020	
	0.1121	0.1244	0.4879 0.3501	
Polluting Sec Firm Size and	Employmer		0.2077	0.1401
			0.2490	
Non-polluting Firm Size and 0.5265	Employmen	nt Share 0.1076	0.1431	0
0.1173	0.1419	0.1540	0.5868	0
Average Tax = 0.1186				
Yd, Yc, Y, Yd 0.7622		1.4581	0.2232	
Clean Share 0.7310				
Executing the wage price_d 0.7756			1.5	
ld ls outlhs 0.9924			0.2955	0.0000
gamma = 0.93 Whole Distrib Firm Size: Mo		:a		
	0.2095 0.2797	0.1259 0.1290	0.2427 0.1020	0.0626 0.0195
	0.0520		0.4203 0.3501	0.4259 0.2369
Polluting Sec Firm Size and 0.3044			0.2735	0.0641
0.0256	0.0472	0.0628	0.4381	0.4264

```
Non-polluting Sector
Firm Size and Employment Share
    0.3726
              0.2059
                        0.1240
                                             0.0623
                                  0.2352
    0.0341
              0.0534
                        0.0717
                                  0.4149
                                             0.4258
Average Tax =
Yd, Yc, Y, Yd_share
    0.7340
              2.4848
                        1.7901
                                  0.2008
Clean Share
    0.8380
Executing benchmark case CES = 3.0
wage price_d price_c
    0.4212
              0.5285
                        0.7260
ld ls outlhs outrhs out
    0.9824
              0.9818
                        0.3518
                                  0.3520
                                             0.0000
gamma = 0.93
Whole Distribution
Firm Size: Model vs Data
    0.5066
              0.2302
                        0.1104
                                  0.1476
                                             0.0053
    0.4698
              0.2797
                        0.1290
                                  0.1020
                                             0.0195
Employment Size: Model vs Data
              0.1341
                                  0.5613
    0.1059
                        0.1445
                                             0.0543
    0.0864
              0.1611
                        0.1655
                                  0.3501
                                             0.2369
Polluting Sector
Firm Size and Employment Share
    0.4341
              0.2589
                        0.1225
                                  0.1593
                                             0.0252
    0.0799
              0.1191
                        0.1264
                                  0.4702
                                             0.2045
Non-polluting Sector
Firm Size and Employment Share
    0.5258
              0.2225
                        0.1071
                                  0.1445
                                                  0
                                                  0
    0.1153
              0.1395
                        0.1510
                                  0.5943
Average Tax =
    0.1303
Yd, Yc, Y, Yd_share
```

0.6010

1.7082

1.1979

0.2039

Clean Share 0.5648

Executing no dirty tax of	case CES =	3.0	
wage price_d price_c 0.4866 0.4618	0.7294		
ld ls outlhs outrhs out 0.9854 0.9853		0.6303	0.0000
gamma = 0.93 Whole Distribution			
Firm Size: Model vs Data			
0.5008 0.2233			
0.4698 0.2797	0.1290	0.1020	0.0195
Employment Size: Model v	vs Data		
0.0831 0.1049	0.1183	0.4077	0.2860
0.0864 0.1611	0.1655	0.3501	0.2369
Polluting Sector			
Firm Size and Employment			
0.2963 0.2177	0.1276	0.1956	0.1627
0.0177 0.0325	0.0424	0.1914	0.7159
Non-polluting Sector			
Firm Size and Employment	t Share		
0.5300 0.2241		0.1360	0
0.1266 0.1530	0.1688	0.5516	0
Average Tax = 0.1210			
Yd, Yc, Y, Yd_share			
0.9646 1.5279	1.2809	0.2856	
Clean Share 0.7437			
Executing no tax case CI	ES = 3.0		
wage price_d price_c			
0.6740 0.5286	0.7260		
ld ls outlhs outrhs out			
0.9925 0.9923	0.3517	0.3517	0.0000

gamma = 0.93

Whole Dist	ribution			
Firm Size:	Model vs Da	ta		
0.3592	0.2100	0.1259	0.2275	0.0775
0.4698	0.2797	0.1290	0.1020	0.0195
Employment	Size: Model	vs Data		
	0.0520		0.3722	0.4743
	0.1611			
Polluting	Sector			
	and Employme	nt Share		
	0.2226		0.2119	0.1321
0.0232	0.0429	0.0565	0.2698	0.6077
Non-pollut	ing Sector			
Firm Size	and Employme	nt Share		
0.3741	0.2067	0.1244	0.2315	0.0633
0.0352	0.0553	0.0742	0.4092	0.4261
Average Ta	x =			
Yd, Yc, Y, 0.7802	Yd_share 2.2187	1.5557	0.2038	
Clean Shar 0.8404				

Drint results by compute tabl

Print results by compute_tables_ces.m
Print Results for the CES Benchmark

=======================================		
•	Table 4: Aggregate Impacts	
	Polluting	Non-polluting
Output Price Output Value	2.830687 0.561786 1.590240	2.390392 0.660155 1.578030
Number of Firms Mean Size	0.017611 64.309729	0.018464 51.162608
Aggregate Pollution Aggregate Intensity Clean Share	0.006816 0.002408 0.561755	

Print Results for the CES No Dirty Tax

Table 4: Aggregate Impacts								
Polluting Non-polluting								
Output Price Output Value	3.810842 0.477449 1.819484	2.343220 0.675579 1.583031						
Number of Firms Mean Size	0.008179 176.170997	0.017611 49.376319						
Aggregate Pollution Aggregate Intensity Clean Share	0.005456 0.001432 0.731029	=======================================						
Print Results for the	e CES No Tax	===========						
Ta	able 4: Aggregate Impacts							
	Polluting	Non-polluting						
Output Price Output Value	3.669773 0.561600 2.060944	3.105987 0.660185 2.050526						
Number of Firms Mean Size	0.007507 152.214516	0.007732 123.500126						
Aggregate Pollution Aggregate Intensity Clean Share	0.005109 0.001392 0.838035							
Print Results for the								
	able 4: Aggregate Impacts							
=======================================	Polluting	Non-polluting						
Output Price Output Value	3.004783 0.528500 1.588028	2.135221 0.726014 1.550201						
	0.019065 68.358894	0.017986 50.157141						
Aggregate Pollution Aggregate Intensity								

Clean Share	0.5647	790 				
Print Results for th		-				
٦	Table 4:	Aggregate	e Impacts			
		 ing		Non-pollut		
Output Price Output Value	4.8236 0.4618 2.2272	300		1.909920 0.729353 1.393005	3	
Number of Firms Mean Size	214.24	11229		0.016056 46.08666	92	
Aggregate Pollution Aggregate Intensity Clean Share	0.0064 0.0013	115 330			-======	
Print Results for th			:======			
7		Aggregate				
		ing		Non-pollut		
•	3.9016 0.5286 2.0626	505		2.773345 0.726016 2.013477)	
Number of Firms Mean Size				0.007608 119.8444		
Aggregate Pollution Aggregate Intensity Clean Share	0.0013 0.8404	371 147	:======	.=======		
Compute again Table						
Table	s 5: Aggr	regate Imp	acts CES	= 1.5		
		Polluting			polluting	
Statistics Ber	nchmark	(i)	(ii)	Benchmark	(i)	(ii)
•				100 100		

Output Value	100	129.60	114.42	100	129.90	100.32	
#firms Mean Size	100 64.31	42.63 152.21	46.44 176.17	100 51.16	41.88 123.50	95.38 49.38	
Pollution Intensity Clean Share	100 100 56.18	74.69 57.81 83.80	80.05 59.47 73.10				
==========		=======	=======	========	========	=========	

Lower Panel

Table	5:	Aggregate	Impacts	CES	=	3.6)
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-	Polluting			Non-polluting		
Statistics	Benchmark	(i)	(ii)	Benchmark	(i)	(ii)
Output Price Output Value	100 100 100	129.83 100.02 129.85	160.51 87.38 140.25	100 100 100	129.89 100.00 129.88	89.45 100.46 89.86
#firms Mean Size	100 68.36	41.50 166.29	48.19 214.24	100 50.16	42.30 119.84	89.24 46.09
Pollution Intensity Clean Share	100 100 56.48	74.69 57.53 84.04	89.61 55.81 74.37			