

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

0.5030	0.2227	0.1100	0.1498	0.0146
0.4698	0.2797	0.1290	0.1020	0.0195

Employment Size: Model vs Data

0.0893	0.1121	0.1244	0.4879	0.1863
0.0864	0.1611	0.1655	0.3501	0.2369

Polluting Sector

Firm Size and Employment Share

0.3001	0.2215	0.1306	0.2077	0.1401
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0.0218	0.0403	0.0529	0.2490	0.6360
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Non-polluting Sector

Firm Size and Employment Share

0.5265	0.2228	0.1076	0.1431	0
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0.1173	0.1419	0.1540	0.5868	0
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Average Tax =

0.1186

Yd, Yc, Y, Yd_share

0.7622	1.8746	1.4581	0.2232
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Clean Share

0.7310

Executing the no tax case CES = 1.5

wage price_d price_c

0.7756	0.5616	0.6602
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ld ls outlhs outrhs out

0.9924	0.9923	0.2954	0.2955	0.0000
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gamma = 0.93

Whole Distribution

Firm Size: Model vs Data

0.3593	0.2095	0.1259	0.2427	0.0626
0.4698	0.2797	0.1290	0.1020	0.0195

Employment Size: Model vs Data

0.0322	0.0520	0.0697	0.4203	0.4259
0.0864	0.1611	0.1655	0.3501	0.2369

Polluting Sector

Firm Size and Employment Share

0.3044	0.2241	0.1339	0.2735	0.0641
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0.0256	0.0472	0.0628	0.4381	0.4264
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Non-polluting Sector

Firm Size and Employment Share

0.3726	0.2059	0.1240	0.2352	0.0623
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0.0341	0.0534	0.0717	0.4149	0.4258
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Average Tax =

0

Yd, Yc, Y, Yd_share

0.7340	2.4848	1.7901	0.2008
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Clean Share

0.8380

Executing benchmark case CES = 3.0

wage price_d price_c

0.4212	0.5285	0.7260
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ld ls outlhs outrhs out

0.9824	0.9818	0.3518	0.3520	0.0000
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gamma = 0.93

Whole Distribution

Firm Size: Model vs Data

0.5066	0.2302	0.1104	0.1476	0.0053
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0.4698	0.2797	0.1290	0.1020	0.0195
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Employment Size: Model vs Data

0.1059	0.1341	0.1445	0.5613	0.0543
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0.0864	0.1611	0.1655	0.3501	0.2369
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Polluting Sector

Firm Size and Employment Share

0.4341	0.2589	0.1225	0.1593	0.0252
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0.0799	0.1191	0.1264	0.4702	0.2045
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Non-polluting Sector

Firm Size and Employment Share

0.5258	0.2225	0.1071	0.1445	0
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0.1153	0.1395	0.1510	0.5943	0
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Average Tax =

0.1303

Yd, Yc, Y, Yd_share

0.6010	1.7082	1.1979	0.2039
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Clean Share

0.5648

Executing no dirty tax case CES = 3.0

wage price_d price_c

0.4866 0.4618 0.7294

ld ls outlhs outrhs out

0.9854 0.9853 0.6313 0.6303 0.0000

gamma = 0.93

Whole Distribution

Firm Size: Model vs Data

0.5008 0.2233 0.1120 0.1435 0.0204

0.4698 0.2797 0.1290 0.1020 0.0195

Employment Size: Model 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 Share

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 Share

0.5300 0.2241 0.1098 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 CES = 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 Distribution

Firm Size: Model vs Data

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

0.0320	0.0520	0.0695	0.3722	0.4743
0.0864	0.1611	0.1655	0.3501	0.2369

Polluting Sector

Firm Size and Employment Share

0.3018	0.2226	0.1316	0.2119	0.1321
0.0232	0.0429	0.0565	0.2698	0.6077

Non-polluting Sector

Firm Size and Employment Share

0.3741	0.2067	0.1244	0.2315	0.0633
0.0352	0.0553	0.0742	0.4092	0.4261

Average Tax =

0

Yd, Yc, Y, Yd_share

0.7802	2.2187	1.5557	0.2038
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Clean Share

0.8404

Print the tables

Execute: generate_tables_appendix.m

Table 4: Aggregate Impacts Upper (CES = 1.5)

Statistics	Polluting			Non-polluting		
	Benchmark	(i)	(ii)	Benchmark	(i)	(ii)
Output	100.00	129.64	134.63	100.00	129.94	98.03
Price	100.00	99.97	84.99	100.00	100.00	102.34
Revenue	100.00	129.60	114.42	100.00	129.94	100.32
#firms	100.00	42.63	46.44	100.00	41.87	95.38
Mean Size	64.31	152.21	176.17	51.16	123.50	49.38
Pollution	100.00	74.95	80.04			
Intensity	100.00	57.81	59.45			
Clean Share	56.18	83.80	73.10			

Table 4: Aggregate Impacts Lower (CES = 3.0)

Statistics	Polluting			Non-polluting		
	Benchmark	(i)	(ii)	Benchmark	(i)	(ii)
Output	100.00	129.83	160.51	100.00	129.89	89.45
Price	100.00	100.02	87.38	100.00	100.00	100.46
Revenue	100.00	129.85	140.25	100.00	129.88	89.86
#firms	100.00	41.50	48.19	100.00	42.30	89.24
Mean Size	68.36	166.29	214.24	50.16	119.84	46.09
Pollution	100.00	74.69	89.60			
Intensity	100.00	57.53	55.82			
Clean Share	56.48	84.04	74.37			