

Global inequality in carbon-intensive consumption

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Abstract

In this study ...

Keywords: Climate mitigation, inequality, poverty

JEL Codes:

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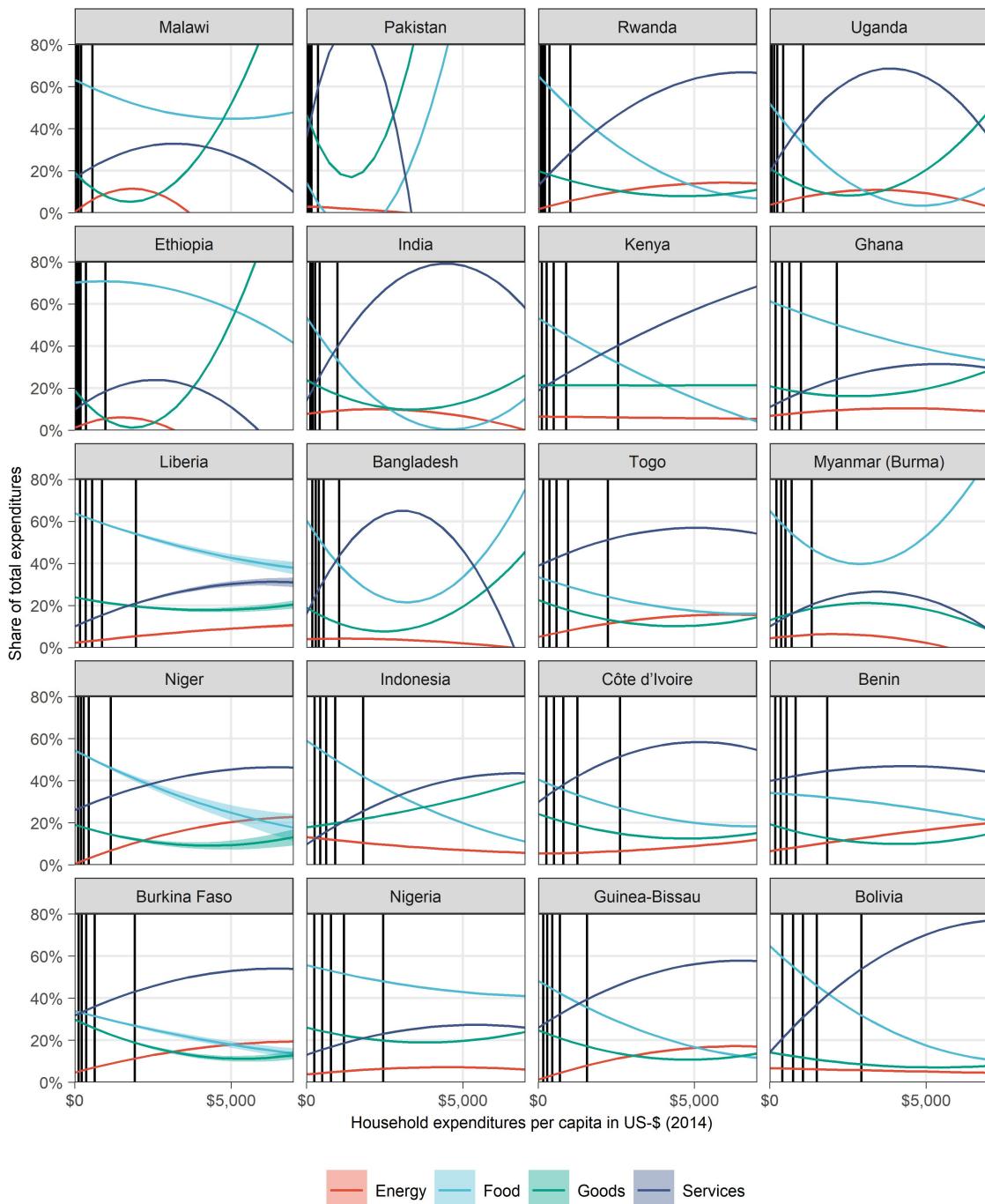
1 Main

2 Data and Methods

A Appendix

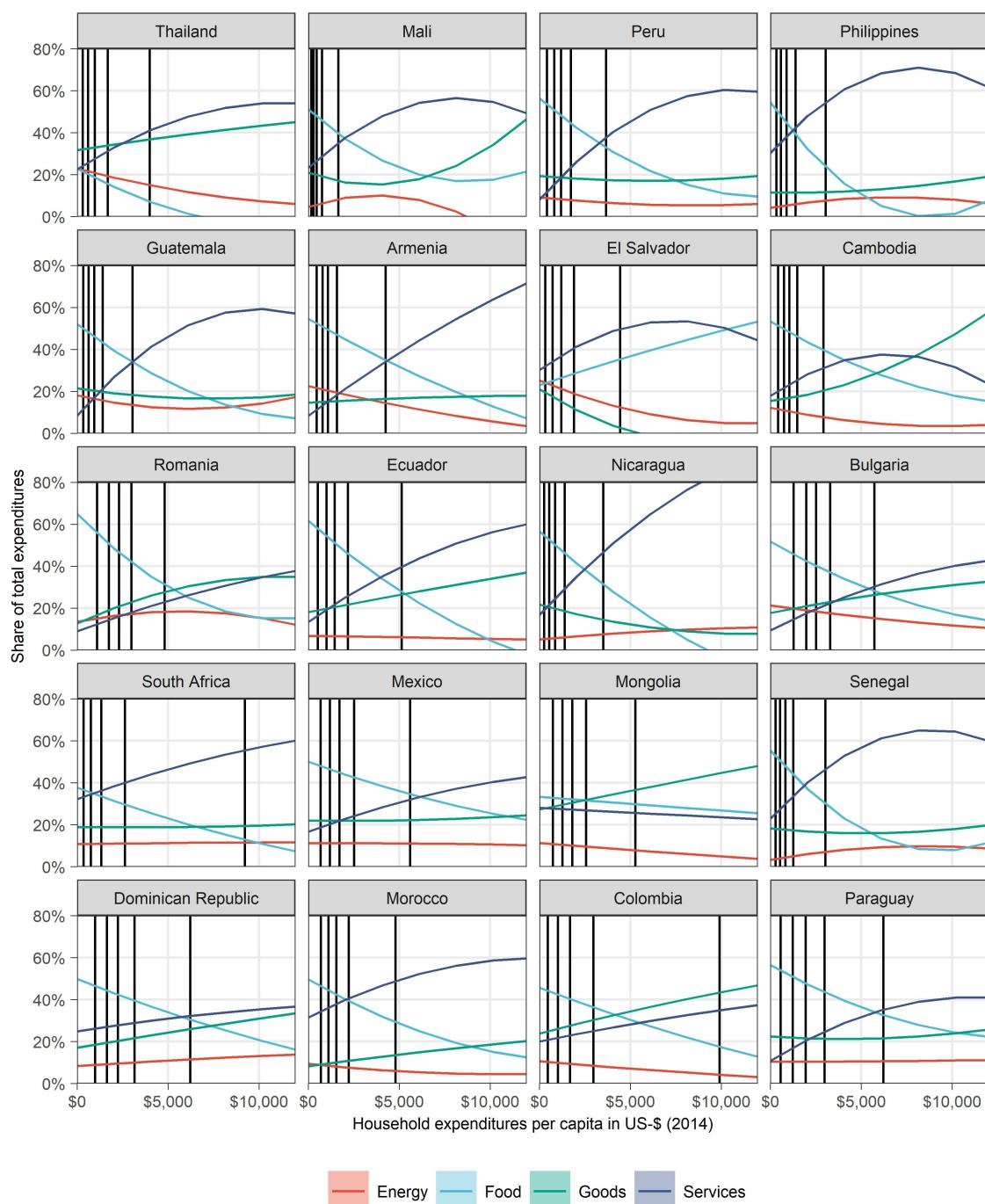
A.1 Supplementary figures

Figure A.1: Engel curves: expenditure shares over total household expenditures - Part A



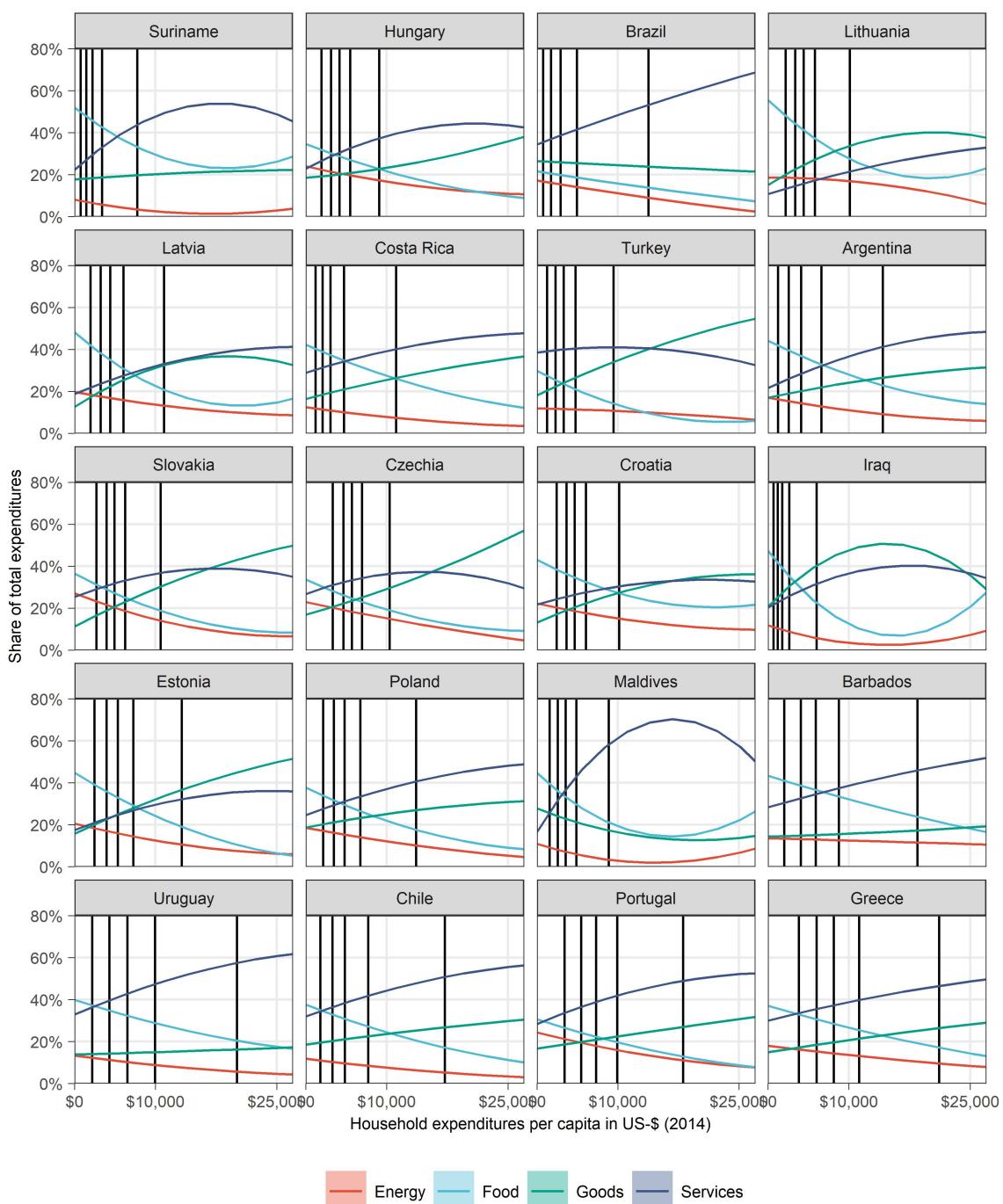
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Figure A.2: Engel curves: expenditure shares over total household expenditures - Part B



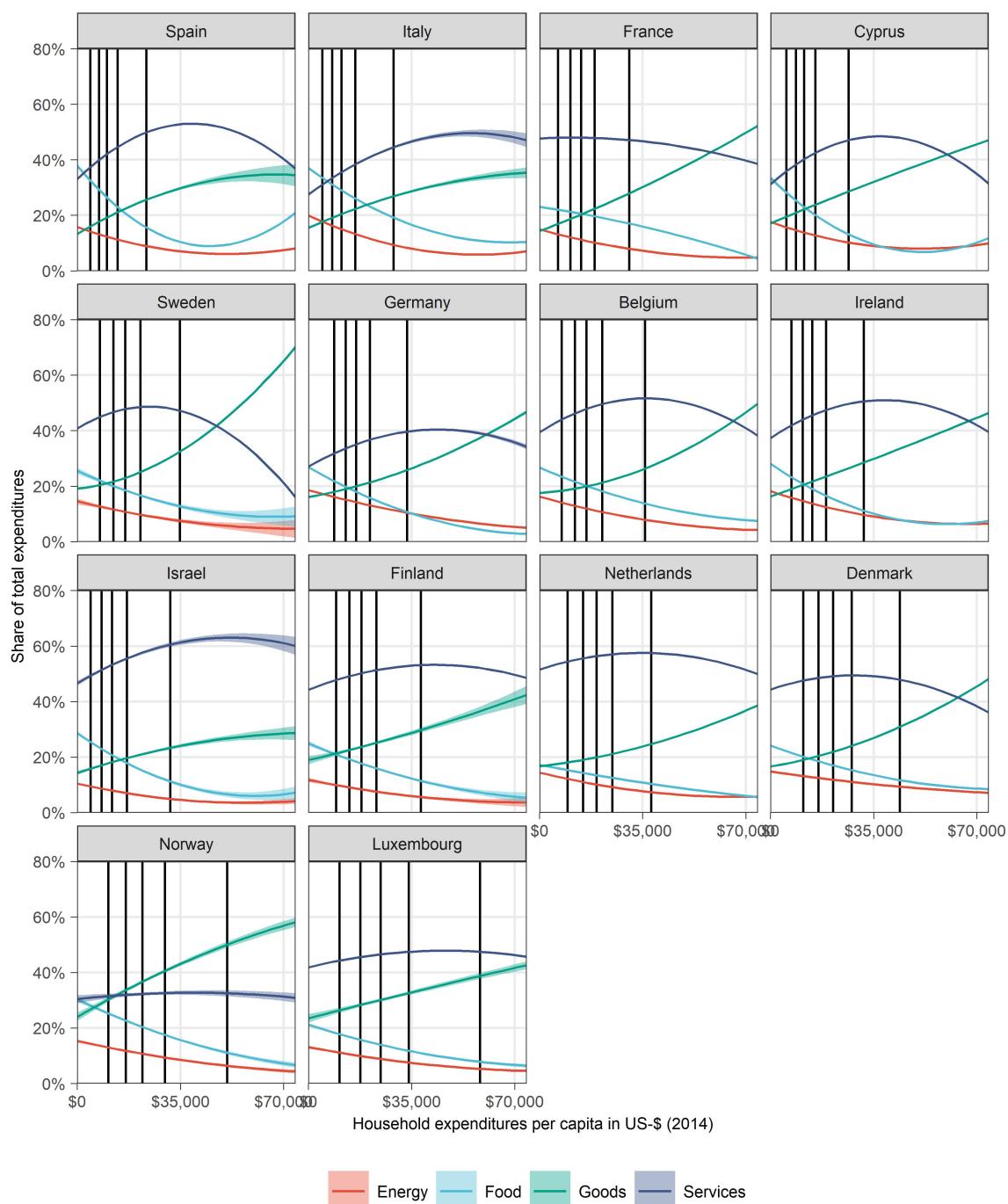
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Figure A.3: Engel curves: expenditure shares over total household expenditures - Part C



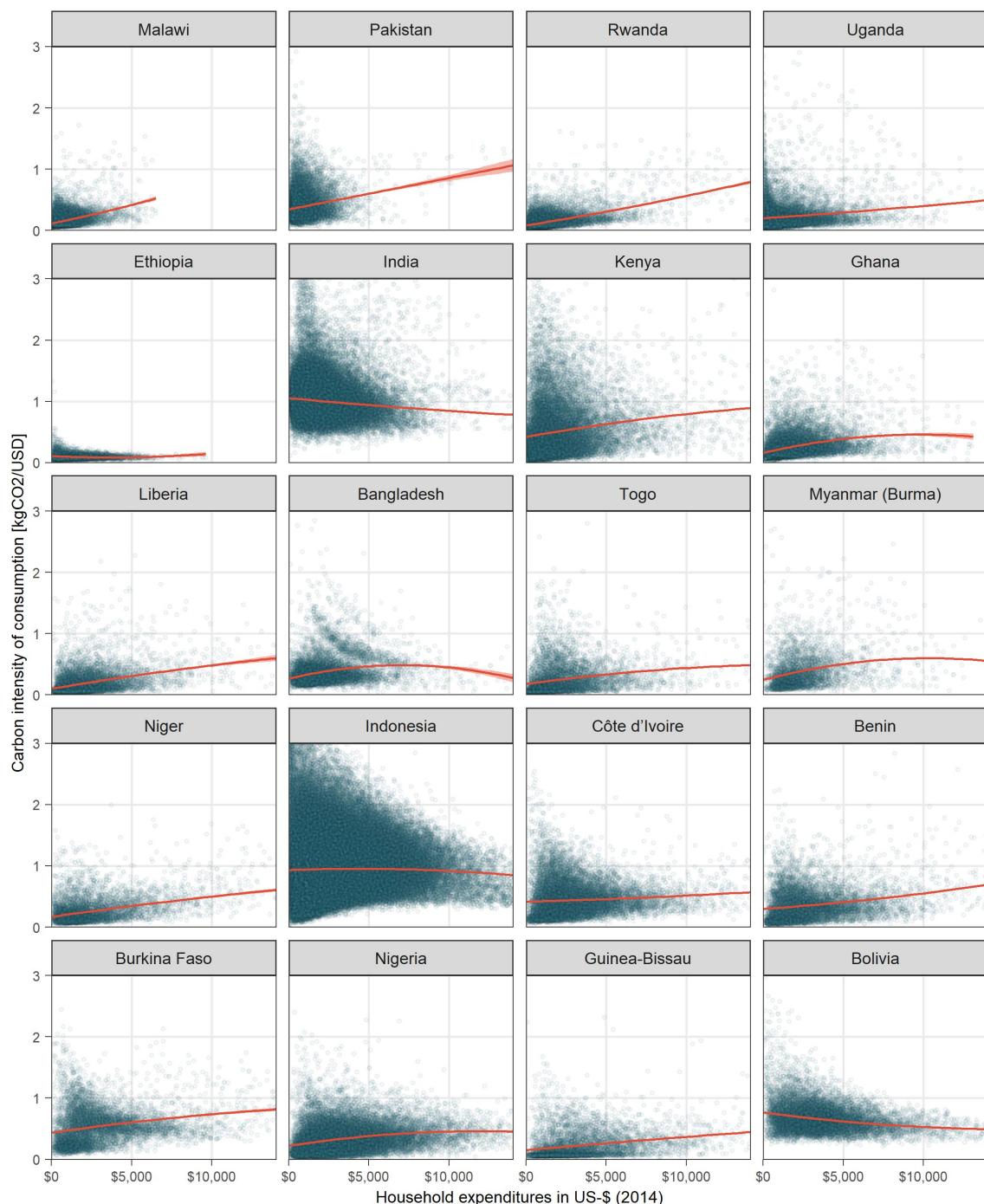
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Figure A.4: Engel curves: expenditure shares over total household expenditures - Part D



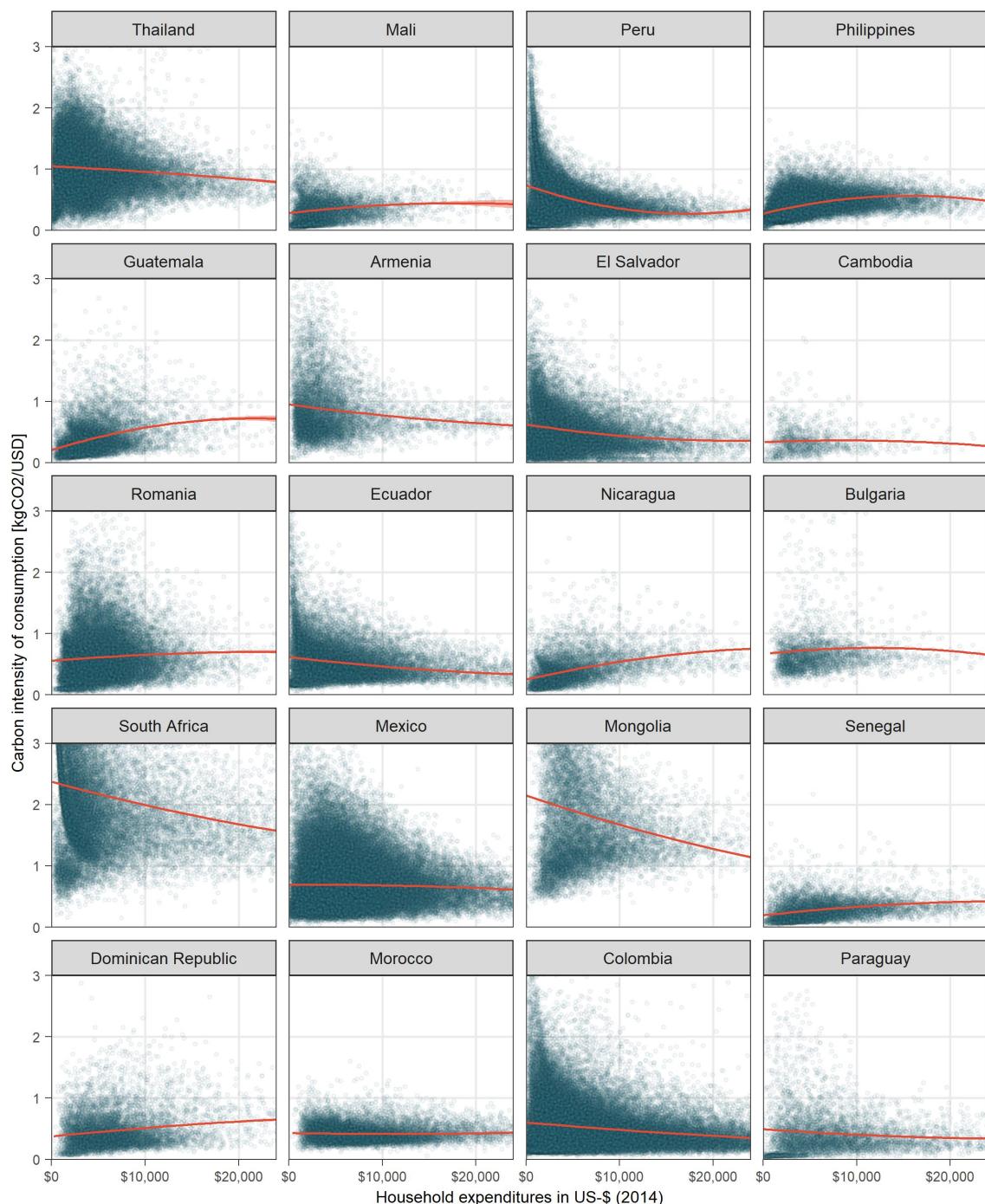
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Figure A.5: Carbon intensity of consumption over total household expenditures - Part A



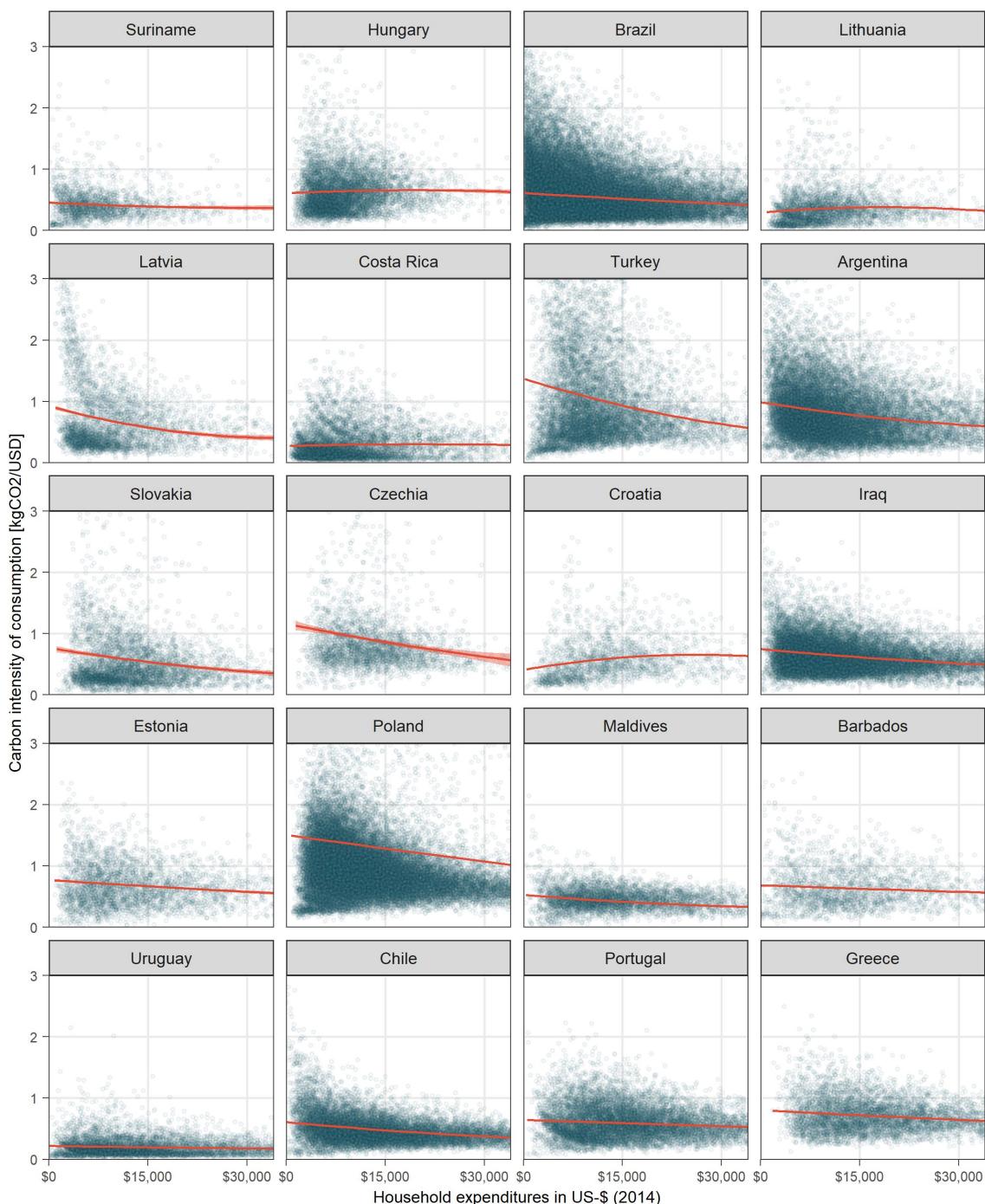
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Figure A.6: Carbon intensity of consumption over total household expenditures - Part B



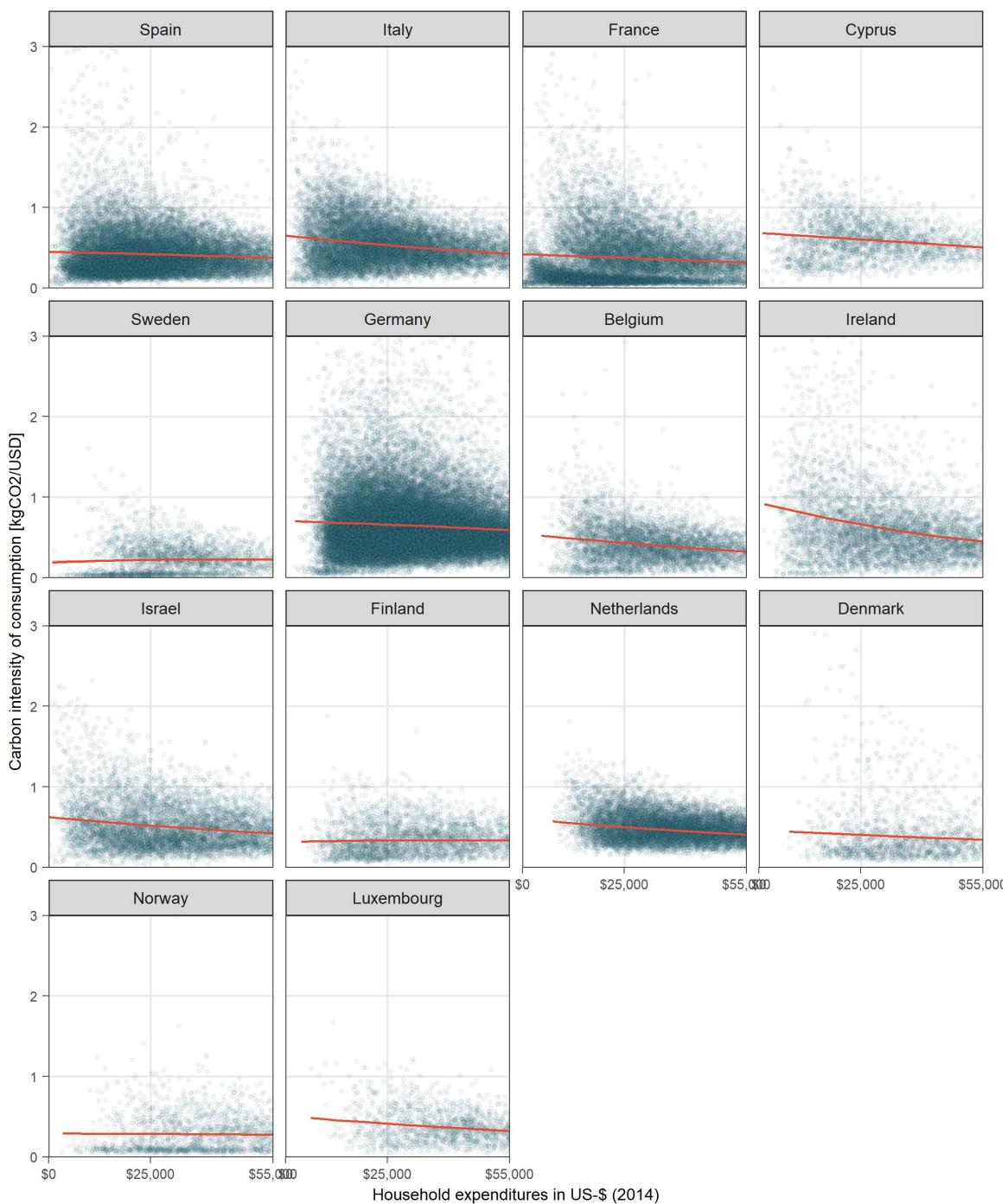
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Figure A.7: Carbon intensity of consumption over total household expenditures - Part C



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Figure A.8: Carbon intensity of consumption over total household expenditures - Part D



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A.2 Supplementary tables

Table A.1: Summary statistics

Country	Observations	Average Household Size	Urban Population	Electricity Access	Average Household Expenditures [USD]	Car Ownership	Share of Firewood or Charcoal Cons.
ARG	21,539	3.19		99.9%	14,437	49%	5%
ARM	7,776	3.63	66%	99.8%	5,371	32%	1%
BEL	6,135	2.31	96%		36,297		9%
BEN	8,012	5.21	47%	33.1%	3,127	3%	97%
BFA	7,010	6.51	31%	24.4%	3,095	4%	92%
BGD	12,240	4.50	27%	55.2%	2,125	1%	39%
BGR	2,966	2.37	71%		6,376		37%
BOL	11,859	3.34	69%	94.7%	3,688	17%	12%
BRA	57,889	3.01	86%	99.5%	12,247	46%	3%
BRB	2,434	2.62		94.7%	16,842	52%	0%
CHL	15,237	3.29			19,547		11%
CIV	12,992	4.48	52%	64.1%	3,718	3%	77%
COL	86,866	3.35	79%	98.3%	8,586	14%	9%
CRI	7,046	3.24	71%	99.7%	12,177	45%	5%
CYP	2,876	2.70	74%		31,922		21%
CZE	2,929	2.22	67%		12,615		22%
DEU	52,412	2.00	90%		32,812		0%
DNK	2,205	2.12	67%		43,812		21%
DOM	8,884	3.21	81%	97.5%	7,786	21%	7%
ECU	28,263	3.68	69%	90.5%	6,432	19%	5%
ESP	22,127	2.50	75%		26,216		0%
EST	3,395	2.24	51%		13,491		33%
ETH	6,767	4.48	32%	55.9%	1,100	1%	96%
FIN	3,673	2.02	71%		36,791		43%
FRA	16,978	2.23	69%		31,107		0%
GHA	13,521	3.91	56%	83.1%	2,312	4%	83%
GNB	5,351	8.18	47%	21.7%	4,172	3%	99%
GRC	6,150	2.58	72%		22,585		28%
GTM	11,534	4.77	54%	81%	4,830	17%	70%
HRV	2,029	2.89	59%		14,048		51%
HUN	7,185	2.34	56%		9,596		42%
IDN	295,116	3.77	55%	98.5%	2,799	11%	29%
IND	101,581	4.43	31%	79.9%	1,514	4%	63%
IRL	6,839	2.73	65%		39,751		31%
IRQ	24,994	6.73	72%	99.3%	13,940	35%	3%
ISR	8,786	3.28	90%		39,641	72%	0%
ITA	15,010	2.34	82%		27,521		15%
KEN	21,714	3.98	44%	56.4%	2,372		82%
KHM	1,206	4.34	27%		5,263	11%	73%
LBR	8,332	4.27	52%	16.7%	2,617	2%	99%
LTU	3,443	2.15	47%		10,068		33%
LUX	3,167	2.42	81%		57,666		0%
LVA	3,844	2.37	56%		11,616		0%
MAR	15,970	4.74	65%		8,194		21%
MDV	4,749	5.19			19,238	5%	0%
MEX	88,899	3.55	79%	99.7%	6,846	40%	15%
MLI	6,602	7.14	28%	27.5%	4,011	4%	99%
MMR	3,648	4.53	29%	63%	2,541	4%	88%
MNG	11,197	3.58	66%		7,174		44%
MWI	11,374	4.40	16%	10.7%	734	2%	99%
NER	6,024	5.96	17%	15.7%	2,206	2%	97%
NGA	22,110	5.08	40%	63.4%	3,955	8%	70%
NIC	6,850	4.38	60%	86.8%	4,985	8%	51%

Table A.1: Summary statistics (*continued*)

Country	Observations	Average Household Size	Urban Population	Electricity Access	Average Household Expenditures [USD]	Car Ownership	Share of Firewood or Charcoal Cons.
NLD	14,408	2.19	90%		39,679		1%
NOR	3,363	2.77	82%		64,706	88%	0%
PAK	17,986	6.35	36%	91.5%	862	4%	20%
PER	34,542	3.56	77%	95.6%	4,866	12%	15%
PHL	41,540	4.60	44%	91.1%	4,838	7%	45%
POL	37,148	2.80	64%		14,962		6%
PRT	11,398	2.53	73%		20,295		9%
PRY	5,410	3.90	61%	97.8%	8,371	25%	29%
ROU	30,625	2.66	58%		6,039		9%
RWA	14,577	4.39	19%		1,353	1%	41%
SEN	7,156	8.91	53%	63.7%	7,639	5%	86%
SLV	23,622	3.67	64%	95.7%	5,707	15%	12%
SUR	2,025	3.39	72%		8,490	38%	0%
SVK	4,785	2.93	71%		15,012		19%
SWE	2,871	2.13	45%		33,704		0%
TGO	6,171	4.23	47%	51.8%	2,733	3%	92%
THA	42,711	3.04	36%	99.8%	3,917	14%	26%
TUR	10,060	3.64	70%		12,906	39%	4%
UGA	15,627	4.82	28%	39.2%	1,494	3%	95%
URY	6,888	2.82	83%	99.7%	20,528	46%	13%
ZAF	22,964	3.53	70%	92.7%	7,223	27%	10%

Note:

This table provides summary statistics for households in our sample. All values (except observations) are household-weighted averages.

Table A.2: Average carbon footprint and average USD/tCO₂ carbon price incidence per expenditure quintile

Country	Average carbon footprint [tCO ₂]						Average incidence from USD 40/tCO ₂ carbon price					
	All	Expenditure quintile					All	Expenditure quintile				
		EQ1	EQ2	EQ3	EQ4	EQ5		EQ1	EQ2	EQ3	EQ4	EQ5
ARG	10.4	5.0	7.7	9.6	12.8	16.6	3.19%	3.93%	3.44%	3.18%	2.93%	2.45%
ARM	4.2	1.9	2.7	3.4	4.1	8.8	3.44%	3.91%	3.62%	3.53%	3.3%	2.86%
BEL	12.9	11.0	12.9	13.0	13.2	14.7	1.58%	1.8%	1.69%	1.67%	1.49%	1.25%
BEN	1.3	0.4	0.7	1.0	1.4	3.1	1.47%	1.26%	1.34%	1.37%	1.43%	1.95%
BFA	1.9	0.5	0.9	1.3	2.1	4.7	2.16%	1.98%	2.02%	2.06%	2.17%	2.56%
BGD	0.9	0.3	0.4	0.6	1.0	1.9	1.48%	1.2%	1.24%	1.38%	1.63%	1.93%
BGR	4.7	2.8	3.4	4.5	5.7	7.1	2.94%	2.83%	2.84%	3.09%	3.05%	2.88%
BOL	2.3	1.2	1.9	2.4	2.8	3.3	2.64%	2.84%	2.72%	2.67%	2.62%	2.36%
BRA	5.7	1.8	3.1	4.6	6.7	12.4	2.17%	2.78%	2.23%	2.11%	1.98%	1.73%
BRB	9.9	4.4	7.6	10.6	12.0	14.8	2.49%	2.65%	2.58%	2.66%	2.5%	2.09%
CHL	7.9	4.1	5.8	7.2	9.2	13.3	1.85%	2.41%	2%	1.82%	1.65%	1.37%
CIV	1.8	0.8	1.3	1.7	2.0	3.0	1.8%	1.89%	1.84%	1.77%	1.69%	1.79%
COL	3.6	1.2	2.2	2.9	4.0	7.7	2.05%	2.52%	2.31%	2.11%	1.84%	1.46%
CRI	3.5	1.4	2.4	3.0	4.3	6.2	1.16%	1.14%	1.24%	1.19%	1.2%	1.04%
CYP	17.2	11.8	16.3	17.2	19.8	21.0	2.32%	2.61%	2.51%	2.29%	2.18%	2.01%
CZE	10.8	9.8	10.6	10.9	10.7	12.0	3.65%	4.11%	3.76%	3.87%	3.49%	3.03%
DEU	20.1	18.3	18.8	19.7	20.6	22.9	2.56%	3.04%	2.71%	2.57%	2.42%	2.06%
DNK	15.2	14.8	15.0	13.8	15.0	17.6	1.47%	1.73%	1.54%	1.45%	1.37%	1.25%
DOM	4.1	1.8	2.7	3.5	4.2	8.2	1.92%	1.78%	1.8%	1.88%	1.86%	2.29%
ECU	3.0	1.3	2.0	2.5	3.4	6.0	2.1%	2.57%	2.08%	1.96%	1.95%	1.92%
ESP	10.5	6.1	9.2	11.0	12.6	13.7	1.66%	1.8%	1.79%	1.73%	1.6%	1.41%
EST	8.5	4.6	6.5	8.2	9.4	13.8	2.72%	3%	2.95%	2.72%	2.56%	2.39%
ETH	0.1	0.0	0.1	0.1	0.1	0.2	0.4%	0.46%	0.4%	0.37%	0.38%	0.38%
FIN	12.0	9.4	10.7	12.2	12.4	15.3	1.32%	1.4%	1.36%	1.4%	1.28%	1.16%
FRA	10.6	7.9	10.2	11.4	11.3	12.1	1.45%	1.67%	1.56%	1.51%	1.37%	1.14%
GHA	0.7	0.3	0.5	0.7	1.0	1.3	1.11%	0.86%	0.99%	1.08%	1.24%	1.36%
GNB	1.2	0.3	0.6	0.9	1.4	2.9	0.98%	0.73%	0.76%	0.92%	1.09%	1.4%
GRC	14.5	9.9	12.2	14.0	15.4	20.8	2.75%	3.11%	2.94%	2.8%	2.6%	2.3%
GTM	2.3	0.5	1.1	1.8	2.7	5.2	1.59%	0.96%	1.22%	1.59%	1.92%	2.25%
HRV	8.4	5.0	7.3	8.2	9.7	11.8	2.31%	2.05%	2.4%	2.35%	2.37%	2.37%
HUN	6.2	3.9	5.4	6.3	7.1	8.1	2.56%	2.44%	2.64%	2.72%	2.6%	2.4%
IDN	2.6	0.9	1.6	2.3	3.2	5.2	3.79%	3.67%	3.62%	3.74%	3.89%	4.01%
IND	1.5	0.7	1.0	1.3	1.8	2.7	4.08%	4.2%	4.2%	4.16%	4.07%	3.77%
IRL	20.1	15.1	19.1	20.7	23.3	22.3	2.3%	2.79%	2.55%	2.24%	2.18%	1.72%
IRQ	8.1	3.9	5.8	7.4	9.4	14.0	2.53%	2.83%	2.63%	2.58%	2.45%	2.18%
ISR	17.2	11.8	15.6	17.6	19.7	21.4	1.92%	2.54%	2.08%	1.82%	1.73%	1.42%
ITA	13.5	9.1	12.3	13.5	15.4	17.3	2.12%	2.53%	2.28%	2.07%	1.96%	1.73%
KEN	1.4	0.3	0.7	1.1	1.7	3.5	2.08%	1.59%	1.92%	2.06%	2.23%	2.59%
KHM	1.9	0.8	1.3	1.6	2.2	3.5	1.42%	1.42%	1.52%	1.39%	1.38%	1.39%
LBR	0.7	0.1	0.3	0.6	1.0	1.6	0.84%	0.57%	0.68%	0.84%	0.93%	1.19%
LTU	3.6	2.1	2.7	3.2	4.4	5.4	1.4%	1.33%	1.37%	1.47%	1.47%	1.34%
LUX	17.0	14.7	15.5	16.9	18.5	19.2	1.32%	1.68%	1.42%	1.25%	1.21%	1.04%
LVA	6.9	4.4	5.2	5.9	7.5	11.3	2.69%	3.66%	2.81%	2.47%	2.38%	2.13%
MAR	3.5	1.9	2.5	3.0	3.8	6.3	1.68%	1.79%	1.67%	1.65%	1.63%	1.68%
MDV	7.2	4.8	6.7	7.4	8.2	8.7	1.61%	1.95%	1.8%	1.6%	1.44%	1.25%
MEX	4.6	2.0	3.4	4.4	5.5	7.6	2.75%	2.65%	2.79%	2.88%	2.85%	2.56%
MLI	1.5	0.5	0.8	1.2	1.9	3.0	1.37%	1.32%	1.34%	1.3%	1.4%	1.48%
MMR	1.1	0.4	0.6	0.9	1.3	2.4	1.54%	1.27%	1.41%	1.46%	1.59%	1.99%
MNG	11.8	7.1	9.5	10.9	12.7	18.9	7.25%	8.13%	7.82%	7.33%	6.92%	6.05%
MWI	0.1	0.0	0.0	0.1	0.1	0.4	0.62%	0.54%	0.52%	0.56%	0.63%	0.87%
NER	0.7	0.2	0.3	0.4	0.6	2.0	0.99%	0.9%	0.84%	0.88%	0.96%	1.38%
NGA	1.5	0.4	0.9	1.4	2.1	2.6	1.37%	0.96%	1.17%	1.41%	1.6%	1.71%
NIC	2.5	0.4	0.9	1.5	2.7	6.9	1.58%	0.99%	1.28%	1.51%	1.84%	2.25%
NLD	17.1	16.9	17.3	16.0	16.3	19.1	1.83%	2.16%	1.95%	1.81%	1.68%	1.53%
NOR	15.9	10.2	14.4	16.6	18.1	20.5	1.06%	1.11%	1.14%	1.13%	1.03%	0.88%

Table A.2: Average carbon footprint and average USD/tCO₂ carbon price incidence per expenditure quintile (*continued*)

Country	All	EQ1	EQ2	EQ3	EQ4	EQ5	All	EQ1	EQ2	EQ3	EQ4	EQ5
PAK	0.4	0.1	0.2	0.3	0.4	0.9	1.56%	1.26%	1.42%	1.59%	1.67%	1.85%
PER	2.2	1.0	1.8	2.2	2.6	3.5	2.16%	2.56%	2.43%	2.17%	1.95%	1.67%
PHL	2.2	0.6	1.1	1.8	2.8	4.8	1.64%	1.17%	1.44%	1.7%	1.9%	2.01%
POL	17.2	10.8	15.1	16.9	19.1	23.9	5.15%	5.05%	5.65%	5.67%	5.35%	4.04%
PRT	11.0	7.3	9.4	10.8	12.4	15.0	2.3%	2.81%	2.48%	2.3%	2.12%	1.81%
PRY	3.3	1.3	2.7	3.3	3.8	5.4	1.7%	1.77%	2.06%	1.75%	1.53%	1.39%
ROU	3.8	1.9	3.0	3.9	4.5	5.7	2.48%	1.93%	2.4%	2.63%	2.73%	2.7%
RWA	0.3	0.0	0.1	0.1	0.2	1.0	0.57%	0.43%	0.44%	0.5%	0.58%	0.92%
SEN	2.6	0.8	1.4	2.5	3.3	4.8	1.19%	0.82%	0.95%	1.23%	1.38%	1.56%
SLV	2.7	0.9	1.8	2.5	3.1	5.0	2.09%	2.75%	2.4%	2.04%	1.75%	1.52%
SUR	3.4	1.5	2.4	3.2	4.3	5.8	1.68%	1.8%	1.77%	1.7%	1.66%	1.46%
SVK	7.5	6.8	7.0	7.9	7.7	8.4	2.2%	2.66%	2.29%	2.36%	2.06%	1.65%
SWE	7.3	6.2	7.1	7.7	7.1	8.5	0.88%	0.99%	0.92%	0.9%	0.78%	0.78%
TGO	0.9	0.2	0.5	0.7	1.1	1.8	1.06%	0.76%	0.98%	1.01%	1.13%	1.41%
THA	3.8	1.2	2.2	3.5	5.0	7.2	4.06%	4.06%	4.47%	4.46%	3.96%	3.36%
TUR	11.5	7.2	10.2	11.8	12.7	15.5	4.04%	4.43%	4.74%	4.32%	3.76%	2.97%
UGA	0.4	0.1	0.1	0.2	0.4	1.1	0.91%	1.03%	0.75%	0.74%	0.83%	1.2%
URY	3.7	1.8	2.6	3.4	4.5	6.4	0.78%	0.92%	0.81%	0.77%	0.72%	0.66%
ZAF	13.0	4.0	6.2	8.5	14.0	32.3	8.51%	9.67%	8.79%	8.67%	8.36%	7.03%

Note:

This table shows average carbon footprints in tCO₂ and average levels of carbon price incidence for households in all countries of our sample. We estimate household-weighted averages for the whole population and per expenditure quintile.

Table A.3: Share of households using cooking fuels

Country	Solid fuels					Liquid or gaseous fuels					Electricity				
	Expenditure quintile					Expenditure quintile					Expenditure quintile				
	EQ1	EQG2	EQ3	EQ4	EQ5	EQ1	EQG2	EQ3	EQ4	EQ5	EQ1	EQG2	EQ3	EQ4	EQ5
ARG	-	-	-	-	-	99%	99%	99%	98%	96%	1%	0%	1%	2%	4%
BEN	100%	100%	99%	96%	77%	-	0%	1%	3%	23%	-	-	-	-	-
BFA	99%	100%	98%	89%	43%	0%	0%	1%	11%	56%	-	-	0%	-	-
BOL	36%	12%	6%	3%	2%	63%	87%	92%	93%	89%	-	0%	0%	0%	1%
BRA	3%	1%	0%	0%	0%	95%	98%	98%	99%	98%	0%	1%	1%	1%	1%
BRB	0%	0%	-	-	-	89%	95%	94%	94%	88%	4%	4%	5%	5%	11%
CIV	97%	92%	73%	49%	27%	2%	8%	26%	49%	68%	-	-	-	-	0%
COL	28%	10%	4%	3%	1%	68%	86%	92%	92%	92%	3%	3%	3%	3%	5%
CRI	11%	4%	3%	2%	1%	52%	54%	47%	44%	29%	36%	41%	50%	54%	69%
DOM	10%	4%	3%	2%	1%	89%	94%	93%	92%	91%	0%	-	0%	0%	0%
ECU	15%	4%	2%	1%	0%	80%	94%	95%	96%	95%	0%	0%	0%	0%	1%
ETH	99%	99%	98%	90%	64%	0%	1%	0%	1%	2%	0%	0%	1%	8%	29%
GHA	97%	87%	70%	55%	31%	2%	11%	25%	35%	51%	-	0%	0%	0%	1%
GNB	100%	99%	98%	99%	93%	-	0%	0%	1%	6%	-	-	-	-	-
GTM	98%	92%	75%	58%	28%	1%	7%	23%	41%	68%	-	-	-	-	-
IDN	42%	21%	12%	6%	2%	57%	78%	87%	92%	92%	0%	0%	0%	1%	1%
IND	92%	84%	70%	41%	9%	2%	9%	25%	56%	79%	0%	0%	0%	0%	0%
IRQ	2%	0%	0%	0%	0%	98%	99%	100%	99%	99%	1%	1%	0%	1%	0%
KEN	98%	94%	79%	52%	24%	1%	5%	18%	44%	70%	0%	0%	1%	2%	2%
KHM	82%	59%	59%	44%	24%	17%	41%	41%	54%	74%	1%	0%	1%	0%	2%
LBR	100%	99%	99%	99%	98%	0%	0%	0%	0%	0%	0%	-	-	0%	0%
MDV	2%	0%	0%	-	-	96%	96%	98%	97%	95%	0%	1%	1%	1%	2%
MEX	38%	16%	9%	5%	2%	60%	83%	90%	93%	95%	1%	1%	1%	2%	2%
MLI	100%	100%	100%	99%	94%	-	-	-	1%	5%	-	-	-	-	0%
MMR	95%	90%	85%	78%	66%	1%	0%	1%	1%	3%	3%	10%	14%	19%	30%
MWI	100%	100%	100%	100%	95%	-	-	-	-	0%	-	-	0%	0%	5%
NER	98%	99%	99%	98%	81%	-	-	0%	1%	18%	-	-	-	-	-
NGA	98%	91%	72%	47%	19%	1%	9%	27%	52%	77%	-	-	-	-	-
NIC	94%	75%	49%	28%	10%	5%	24%	50%	70%	88%	0%	0%	1%	1%	0%
PER	31%	10%	4%	2%	0%	60%	85%	89%	87%	76%	1%	3%	5%	11%	21%
PRY	83%	56%	28%	17%	5%	12%	38%	65%	74%	81%	2%	4%	5%	8%	10%
RWA	-	-	-	-	0%	-	-	-	0%	5%	99%	99%	99%	100%	94%
SEN	98%	90%	71%	48%	18%	2%	10%	29%	51%	79%	-	-	-	0%	0%
SIV	32%	12%	7%	3%	2%	62%	87%	91%	95%	88%	0%	0%	1%	1%	4%
SUR	-	-	-	-	-	99%	98%	99%	97%	96%	0%	2%	0%	2%	2%
TGO	100%	99%	96%	90%	62%	-	0%	3%	9%	36%	-	-	-	-	-
THA	56%	33%	16%	8%	4%	38%	63%	77%	76%	67%	1%	1%	2%	4%	7%
TUR	16%	3%	1%	1%	0%	80%	96%	98%	98%	98%	3%	1%	0%	1%	2%
UGA	96%	98%	97%	95%	85%	0%	0%	0%	1%	6%	0%	0%	0%	1%	2%
URY	3%	1%	1%	1%	0%	93%	96%	96%	94%	90%	3%	3%	3%	6%	10%
ZAF	28%	13%	6%	2%	0%	8%	9%	9%	6%	8%	63%	77%	85%	91%	92%

Note:

This table shows the share of households using different cooking fuels, such as solid fuels (e.g., firewood, charcoal, coal, biomass), liquid fuels (e.g., LPG, natural gas, kerosene), or electricity over expenditure quintiles.

Table A.4: Share of households using lighting fuels

Country	Kerosene					Electricity					Other lighting fuels				
	Expenditure quintile					Expenditure quintile					Expenditure quintile				
	EQ1	EQ2	EQ3	EQ4	EQ5	EQ1	EQ2	EQ3	EQ4	EQ5	EQ1	EQ2	EQ3	EQ4	EQ5
BEN	1%	0%	1%	0%	1%	20%	30%	42%	60%	74%	80%	70%	58%	40%	25%
BFA	0%	0%	0%	0%	0%	29%	38%	44%	66%	91%	65%	59%	52%	30%	8%
BRB	1%	1%	1%	0%	-	88%	95%	97%	97%	97%	3%	3%	2%	2%	1%
CIV	0%	0%	0%	0%	0%	60%	74%	84%	90%	95%	37%	24%	15%	9%	4%
CRI	-	-	-	-	-	99%	100%	100%	100%	100%	-	-	-	-	-
DOM	2%	2%	1%	1%	0%	96%	97%	98%	98%	99%	2%	1%	1%	1%	0%
ECU	-	-	-	-	-	95%	99%	99%	100%	100%	-	-	-	-	-
ETH	30%	27%	23%	14%	3%	30%	43%	48%	68%	90%	41%	29%	29%	18%	7%
GHA	1%	1%	1%	1%	-	60%	80%	88%	92%	96%	36%	17%	11%	7%	4%
GNB	1%	0%	0%	0%	0%	43%	46%	49%	58%	72%	48%	48%	47%	37%	25%
GTM	-	-	-	-	-	58%	82%	89%	96%	97%	37%	15%	9%	4%	2%
IDN	-	-	-	-	-	96%	98%	99%	100%	100%	-	-	-	-	-
IND	48%	28%	15%	6%	2%	51%	72%	85%	94%	98%	0%	0%	0%	0%	0%
IRQ	1%	0%	0%	0%	0%	99%	100%	100%	100%	100%	0%	-	-	-	-
KEN	56%	53%	37%	20%	9%	23%	38%	57%	75%	88%	18%	8%	5%	4%	2%
KHM	2%	1%	-	-	1%	85%	94%	96%	96%	98%	12%	5%	4%	4%	1%
LBR	-	0%	0%	-	-	0%	3%	9%	20%	38%	98%	96%	90%	78%	59%
MLI	1%	1%	0%	0%	0%	61%	66%	68%	80%	94%	27%	26%	26%	18%	5%
MMR	13%	5%	4%	5%	2%	46%	55%	61%	69%	77%	41%	39%	35%	27%	21%
MWI	1%	1%	0%	0%	0%	0%	1%	3%	10%	39%	97%	97%	95%	88%	58%
NER	1%	0%	0%	0%	0%	3%	6%	13%	25%	58%	95%	94%	87%	74%	41%
NIC	14%	4%	3%	2%	0%	62%	85%	92%	96%	99%	-	-	-	-	-
PER	1%	0%	0%	0%	0%	86%	96%	98%	99%	99%	-	-	-	-	-
RWA	-	-	-	-	-	79%	83%	83%	85%	92%	20%	16%	16%	14%	8%
SEN	1%	1%	0%	0%	0%	40%	61%	83%	91%	96%	55%	35%	14%	8%	3%
SLV	4%	1%	0%	0%	0%	87%	96%	98%	99%	99%	9%	3%	2%	1%	1%
SUR	-	-	-	-	-	89%	96%	99%	99%	99%	6%	2%	1%	0%	1%
TGO	0%	0%	1%	0%	0%	13%	36%	62%	79%	89%	85%	63%	37%	19%	10%
UGA	44%	50%	40%	24%	10%	14%	21%	33%	52%	76%	8%	3%	3%	5%	4%
URY	0%	0%	-	-	-	99%	100%	100%	100%	100%	1%	0%	0%	0%	0%
ZAF	3%	2%	2%	1%	0%	85%	89%	92%	96%	99%	12%	8%	6%	3%	0%

Note:

This table shows the share of households using different lighting fuels over expenditure quintiles.

Table A.5: Share of households possessing different assets

Country	Car			TV			Refrigerator			AC			Washing machine		
	All	EQ1	EQ5	All	EQ1	EQ5	All	EQ1	EQ5	All	EQ1	EQ5	All	EQ1	EQ5
ARG	49%	26%	66%	97%	96%	97%	98%	95%	99%	53%	33%	72%	87%	81%	87%
ARM	32%	24%	41%	99%	99%	99%	96%	94%	98%	8%	4%	14%	92%	91%	95%
BEN	3%	0%	12%	23%	3%	52%	4%	0%	14%	0%	0%	1%	0%	0%	1%
BFA	4%	0%	17%	30%	3%	78%	9%	0%	38%	2%	0%	8%	0%	0%	0%
BGD	1%	0%	2%	36%	9%	71%	12%	0%	44%	-	-	-	0%	0%	1%
BOL	17%	5%	31%	84%	61%	92%	61%	28%	77%	10%	2%	22%	18%	2%	40%
BRA	46%	17%	77%	97%	94%	98%	98%	96%	99%	20%	6%	42%	65%	37%	87%
BRB	52%	21%	75%	49%	34%	61%	94%	84%	97%	8%	2%	18%	75%	60%	86%
CIV	3%	0%	10%	45%	15%	70%	15%	1%	35%	2%	0%	9%	2%	1%	5%
COL	14%	1%	39%	92%	81%	97%	83%	66%	92%	4%	1%	7%	61%	34%	82%
CRI	45%	19%	74%	97%	95%	98%	96%	92%	98%	-	-	-	-	-	-
DOM	21%	6%	45%	87%	83%	89%	83%	74%	87%	14%	2%	37%	80%	72%	84%
ECU	19%	2%	52%	91%	78%	98%	80%	56%	93%	6%	0%	17%	45%	15%	71%
ETH	1%	0%	4%	18%	1%	51%	7%	0%	25%	-	-	-	-	-	-
GHA	4%	1%	9%	64%	31%	85%	36%	7%	57%	1%	0%	3%	1%	0%	3%
GNB	3%	0%	12%	26%	5%	59%	13%	0%	40%	1%	0%	2%	0%	0%	1%
GTM	17%	2%	44%	71%	34%	92%	5%	0%	16%	-	-	-	11%	0%	36%
IDN	11%	1%	36%	14%	2%	38%	57%	25%	80%	8%	0%	29%	-	-	-
IND	4%	1%	15%	59%	23%	82%	20%	1%	58%	12%	2%	30%	9%	0%	32%
IRQ	35%	17%	62%	-	-	-	92%	83%	98%	41%	21%	59%	69%	41%	89%
ISR	72%	53%	82%	88%	76%	93%	100%	100%	100%	93%	89%	97%	96%	97%	94%
KHM	11%	2%	34%	-	-	-	-	-	-	-	-	-	-	-	-
LBR	2%	0%	6%	18%	1%	43%	4%	0%	15%	0%	0%	1%	-	-	-
MDV	5%	2%	8%	87%	86%	81%	90%	92%	82%	68%	58%	65%	90%	92%	82%
MEX	40%	21%	57%	67%	75%	54%	88%	74%	94%	100%	100%	100%	71%	50%	82%
MLI	4%	0%	17%	37%	13%	73%	10%	0%	34%	2%	0%	10%	0%	0%	0%
MMR	4%	0%	11%	49%	26%	72%	14%	1%	34%	3%	0%	11%	4%	0%	12%
MNG	-	-	-	97%	94%	99%	-	-	-	-	-	-	-	-	-
MWI	2%	0%	6%	11%	0%	38%	4%	0%	19%	0%	0%	0%	0%	0%	0%
NER	2%	0%	9%	10%	0%	41%	4%	0%	18%	1%	0%	4%	0%	0%	0%
NGA	8%	1%	19%	48%	11%	76%	24%	2%	49%	3%	0%	9%	2%	0%	8%
NIC	8%	0%	29%	75%	39%	95%	40%	7%	79%	1%	0%	6%	10%	0%	31%
NOR	88%	85%	93%	97%	96%	98%	96%	96%	97%	-	-	-	94%	93%	96%
PAK	4%	0%	16%	56%	26%	83%	43%	9%	79%	5%	0%	18%	47%	14%	79%
PER	12%	2%	29%	81%	52%	93%	53%	15%	80%	-	-	-	30%	3%	61%
PHL	7%	0%	27%	77%	45%	95%	41%	6%	81%	12%	0%	40%	36%	4%	72%
PRY	25%	2%	57%	87%	71%	93%	80%	59%	90%	25%	2%	60%	66%	40%	77%
RWA	1%	0%	5%	10%	0%	37%	2%	0%	8%	-	-	-	0%	0%	0%
SEN	5%	0%	20%	58%	17%	85%	32%	4%	65%	2%	0%	11%	0%	0%	2%
SLV	15%	1%	40%	87%	68%	95%	67%	36%	84%	1%	0%	5%	17%	2%	44%
SUR	38%	29%	44%	66%	66%	58%	80%	67%	84%	31%	10%	54%	83%	69%	88%
TGO	3%	0%	10%	36%	3%	70%	6%	0%	21%	1%	0%	3%	0%	0%	1%
THA	14%	1%	39%	97%	93%	97%	90%	82%	90%	18%	1%	45%	63%	39%	72%
TUR	39%	17%	65%	41%	23%	64%	99%	97%	100%	21%	13%	36%	96%	91%	98%
UGA	3%	0%	11%	17%	0%	52%	5%	0%	19%	-	-	-	-	-	-
URY	46%	26%	67%	97%	96%	97%	99%	97%	99%	42%	20%	60%	85%	74%	90%
ZAF	27%	3%	75%	79%	70%	91%	69%	54%	90%	-	-	-	34%	12%	69%

Note:

This table shows the share of households possessing different assets for all households (first and fifth expenditure quintile, respectively) in different countries.

Table A.6: Logit-model coefficients for carbon-intensive consumers in Brazil

Dependent Variables: Test	Upper 20% (1)	Lower 20% (2)
<i>Variables</i>		
(Intercept)	6.08*** (0.304)	-5.75*** (0.336)
HH Exp. (log)	-0.898*** (0.022)	0.735*** (0.025)
HH Size	0.094*** (0.010)	-0.264*** (0.014)
Urban Area	-0.440*** (0.034)	0.261*** (0.043)
Electricity Acc.	-0.286** (0.133)	-0.962*** (0.140)
Car Ownership	1.45*** (0.037)	-1.01*** (0.044)
CF = Firewood	-0.595** (0.252)	0.994*** (0.263)
CF = Liquidfuel	0.866 (0.992)	0.866 (1.06)
CF = LPG	0.096 (0.219)	-0.490** (0.235)
CF = Unknown	0.194 (0.292)	0.075 (0.276)
ISCED = 0	0.043 (0.079)	-0.036 (0.088)
ISCED = 2	0.064* (0.038)	0.020 (0.040)
ISCED = 6	-0.103* (0.058)	0.147*** (0.055)
ISCED = 7	-0.577* (0.301)	0.220 (0.173)
ISCED = 8	-0.375 (0.364)	0.328 (0.252)
ISCED = 9	-0.032 (0.061)	-0.138** (0.069)
ETH = Amarela	-0.038 (0.274)	0.014 (0.226)
ETH = Branca	0.026 (0.034)	0.120*** (0.037)
ETH = Indigena	-0.379* (0.210)	0.217 (0.197)
ETH = Preta	-0.076 (0.051)	0.091* (0.054)
ETH = Semdeclaracao	-0.366 (0.324)	0.604 (0.376)
Standard-Errors	Heteroskedasticity-robust	
Observations	57,889	57,889
Squared Correlation	0.10921	0.07823

*Heteroskedasticity-robust standard-errors in parentheses
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Note:

This table displays regression results from equation LOGIT on the log-odds transformed probability of higher (lower) additional costs than 80% of the population in Brazil as the dependent variable.

Table A.7: Logit-model coefficients for carbon-intensive consumers in Colombia

Dependent Variables: Test	Upper 20% (1)	Lower 20% (2)
<i>Variables</i>		
(Intercept)	4.97*** (0.309)	-2.92*** (0.248)
HH Exp. (log)	-0.979*** (0.027)	0.443*** (0.026)
HH Size	0.154*** (0.010)	-0.219*** (0.014)
Urban Area	-0.184*** (0.059)	0.034 (0.062)
Electricity Acc.	0.569*** (0.217)	-1.05*** (0.127)
Car Ownership	1.43*** (0.056)	-0.899*** (0.072)
CF = Coal	-0.633 (0.720)	0.577 (0.503)
CF = Firewood	-1.50*** (0.186)	1.10*** (0.115)
CF = Gas	1.20*** (0.141)	-1.24*** (0.085)
CF = Kerosene	0.672 (0.607)	-1.06** (0.418)
CF = LPG	0.918*** (0.144)	-0.418*** (0.090)
CF = Unknown	-1.01*** (0.308)	1.13*** (0.142)
ISCED = 0	0.021 (0.075)	0.236*** (0.075)
ISCED = 2	-0.175*** (0.055)	0.096 (0.061)
ISCED = 3	-0.310*** (0.046)	0.204*** (0.050)
ISCED = 6	-0.439*** (0.057)	0.279*** (0.056)
ISCED = 7	-0.610*** (0.131)	0.419*** (0.114)
ISCED = 9	1.32** (0.616)	0.083 (0.533)
ETH = Afrodescendiente	-0.104 (0.068)	0.293*** (0.063)
ETH = Gitano-Rrom	-2.39** (1.03)	-1.17 (0.903)
ETH = Indigena	-0.355*** (0.130)	0.300*** (0.103)
ETH = PalenquerodeSanBasilio	-0.766 (0.776)	0.293 (0.784)
ETH = SanAndresyProvidencia	0.999** (0.455)	-0.783 (0.487)
Standard-Errors	Heteroskedasticity-robust	
Observations	86,866	86,866
Squared Correlation	0.12474	0.13571

*Heteroskedasticity-robust standard-errors in parentheses
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Note:

This table displays regression results from equation LOGIT on the log-odds transformed probability of higher (lower) additional costs than 80% of the population in Colombia as the dependent variable.

Table A.8: Logit-model coefficients for carbon-intensive consumers in Germany

Dependent Variables: Test	Upper 20% (1)	Lower 20% (2)
<i>Variables</i>		
(Intercept)	8.11*** (0.386)	-7.60*** (0.389)
HH Exp. (log)	-0.992*** (0.031)	0.706*** (0.034)
HH Size	0.353*** (0.013)	-0.608*** (0.019)
Urban Area	-0.859*** (0.037)	0.711*** (0.056)
ISCED = 2	0.607** (0.256)	-0.477** (0.230)
ISCED = 3	0.770*** (0.249)	-0.644*** (0.221)
ISCED = 4	0.379 (0.253)	-0.405* (0.225)
ISCED = 5	0.576** (0.260)	-0.608*** (0.233)
ISCED = 6	0.818*** (0.250)	-0.767*** (0.223)
ISCED = 9	0.480* (0.249)	-0.398* (0.222)
Standard-Errors	Heteroskedasticity-robust	
Observations	52,412	52,412
Squared Correlation	0.05250	0.05730

Heteroskedasticity-robust standard-errors in parentheses
*Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Note:

This table displays regression results from equation LOGIT on the log-odds transformed probability of higher (lower) additional costs than 80% of the population in Germany as the dependent variable.

Table A.9: Logit-model coefficients for carbon-intensive consumers in India

Dependent Variables: Test	Upper 20% (1)	Lower 20% (2)
<i>Variables</i>		
(Intercept)	2.08*** (0.332)	-9.63*** (0.364)
HH Exp. (log)	-0.592*** (0.038)	1.38*** (0.039)
HH Size	0.102*** (0.008)	-0.256*** (0.011)
Urban Area	-1.62*** (0.042)	1.36*** (0.049)
Electricity Acc.	1.69*** (0.062)	-1.60*** (0.052)
Car Ownership	1.02*** (0.058)	-0.863*** (0.067)
CF = Charcoal	-1.58*** (0.607)	0.738 (0.450)
CF = Coal	2.51*** (0.247)	-2.26*** (0.320)
CF = Firewood	-1.25*** (0.224)	0.565** (0.261)
CF = Gas	-0.170 (0.391)	-0.315 (0.516)
CF = Kerosene	-0.853*** (0.248)	-0.364 (0.276)
CF = LPG	-0.391* (0.222)	-0.468* (0.258)
CF = Otherbiomass	-0.942*** (0.231)	0.504* (0.269)
CF = Unknown	-1.68*** (0.241)	0.345 (0.275)
ISCED = 0	-0.167*** (0.051)	0.324*** (0.057)
ISCED = 2	0.143*** (0.052)	0.062 (0.058)
ISCED = 3	0.340*** (0.066)	0.083 (0.073)
ISCED = 6	0.315*** (0.072)	-0.013 (0.077)
ISCED = 7	0.375*** (0.093)	-0.136 (0.108)
ISCED = 9	2.13** (1.02)	-3.96*** (1.19)
ETH = Others	0.083** (0.037)	-0.186*** (0.040)
ETH = ScheduledCastes	-0.078* (0.044)	-0.205*** (0.048)
ETH = ScheduledTribes	0.141** (0.058)	-0.308*** (0.067)
Standard-Errors	Heteroskedasticity-robust	
Observations	101,581	101,581
Squared Correlation	0.14859	0.14483

*Heteroskedasticity-robust standard-errors in parentheses
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Note:

This table displays regression results from equation LOGIT on the log-odds transformed probability of higher (lower) additional costs than 80% of the population in India as the dependent variable.

Table A.10: Logit-model coefficients for carbon-intensive consumers in Myanmar (Burma)

Dependent Variables: Test	Upper 20% (1)	Lower 20% (2)
<i>Variables</i>		
(Intercept)	-5.08*** (0.702)	1.79*** (0.663)
HH Exp. (log)	0.412*** (0.091)	-0.430*** (0.087)
HH Size	0.048* (0.025)	-0.111*** (0.029)
Urban Area	-0.277** (0.132)	-0.065 (0.146)
Electricity Acc.	0.357*** (0.130)	-0.446*** (0.112)
Car Ownership	1.11*** (0.209)	-0.658 (0.490)
CF = Charcoal	-0.236 (0.173)	0.935*** (0.257)
CF = Coal	2.64*** (0.963)	-12.1*** (0.264)
CF = Firewood	-0.076 (0.161)	1.05*** (0.241)
CF = Kerosene	0.133 (1.00)	0.263 (1.07)
CF = LPG	0.159 (0.362)	0.193 (0.742)
CF = Otherbiomass	-1.00** (0.428)	1.39*** (0.377)
CF = Unknown	2.00*** (0.480)	-0.882 (0.687)
ISCED = 0	0.523 (0.439)	0.049 (0.361)
ISCED = 2	0.154 (0.147)	-0.122 (0.136)
ISCED = 3	0.503*** (0.182)	-0.454** (0.213)
ISCED = 4	1.98*** (0.529)	-1.43 (1.06)
ISCED = 5	0.961 (1.15)	0.386 (1.09)
ISCED = 6	0.070 (0.259)	-0.849** (0.427)
ISCED = 7	-0.710 (1.08)	2.09 (1.39)
ISCED = 9	-0.011 (0.165)	-0.043 (0.141)
Standard-Errors	Heteroskedasticity-robust	
Observations	3,648	3,648
Squared Correlation	0.06542	0.08562

*Heteroskedasticity-robust standard-errors in parentheses
Signif. Codes: ***: 0.01, **: 0.05, *: 0.1*

Note:

This table displays regression results from equation LOGIT on the log-odds transformed probability of higher (lower) additional costs than 80% of the population in Myanmar (Burma) as the dependent variable.

Table A.11: Logit-model coefficients for carbon-intensive consumers in Peru

Dependent Variables: Test	Upper 20% (1)	Lower 20% (2)
<i>Variables</i>		
(Intercept)	15.9*** (0.491)	-9.74*** (0.523)
HH Exp. (log)	-2.24*** (0.063)	1.14*** (0.066)
HH Size	0.016 (0.016)	-0.140*** (0.016)
Urban Area	0.297*** (0.053)	-0.233*** (0.064)
Electricity Acc.	0.292*** (0.111)	-0.785*** (0.080)
Car Ownership	0.977*** (0.082)	-0.760*** (0.093)
CF = Coal	-3.64*** (0.725)	2.61*** (0.208)
CF = Firewood	-5.97*** (0.257)	4.52*** (0.141)
CF = Gas	-0.194 (0.194)	0.195 (0.119)
CF = LPG	0.446*** (0.141)	-0.672*** (0.088)
CF = Otherbiomass	-7.86*** (1.10)	5.10*** (0.300)
CF = Unknown	-6.18*** (0.494)	4.12*** (0.180)
ISCED = 0	-0.205** (0.101)	0.474*** (0.096)
ISCED = 2	-0.046 (0.075)	-0.129 (0.090)
ISCED = 3	-0.080 (0.061)	-0.211*** (0.073)
ISCED = 4	-0.021 (0.085)	0.059 (0.090)
ISCED = 6	-0.219 (0.162)	0.247* (0.137)
ISCED = 7	-0.088 (0.111)	-0.132 (0.103)
ISCED = 8	-0.044 (0.243)	0.001 (0.157)
ETH = Aaymara	0.519*** (0.100)	0.001 (0.162)
ETH = Blanco	-0.027 (0.132)	0.255** (0.116)
ETH = Nativooindigenadelaamazonia	0.599*** (0.185)	-0.400** (0.172)
ETH = Negro/moreno/zambo/mulato/afroperuano	-0.151 (0.094)	0.175* (0.094)
ETH = Nosabe/noresponde	0.195* (0.106)	0.378*** (0.112)
ETH = Otro	0.141 (0.127)	0.246** (0.125)
ETH = Otropuebloindigenauoriginario	-0.758** (0.361)	0.403 (0.808)
ETH = Quechua	-0.032 (0.055)	0.142** (0.064)
Standard-Errors	Heteroskedasticity-robust	
Observations	34,542	34,542
Squared Correlation	0.36884	0.47704

Heteroskedasticity-robust standard-errors in parentheses

Signif. Codes: ***: 0.01, **: 0.05, *: 0.1

Note:

This table displays regression results from equation LOGIT on the log-odds transformed probability of higher (lower) additional costs than 80% of the population in Peru as the dependent variable.