Supplementary information

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Underestimation of personal carbon footprint inequality in four diverse countries

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Supplementary Table 1. Descriptive statistics. Statistics for continuous variables are reported with mean, standard deviation, and median, whereas categorical variables are reported as percentages.

	Denmark				India Nigeria					United States						
	Ν	Mean	SD	Median	Ν	Mean	SD	Median	Ν	Mean	SD	Median	Ν	Mean	SD	Median
Socio-demographics																
Age	1,001	52.80	15.42	53	1,001	31.11	9.62	29	1,001	35.43	10.51	34	1,000	50.07	17.85	48
Income group	1,001				1,001				1,001				1,000			
General population	501	50%			501	50%			500	50%			500	50%		
Top 10% of income	500	50%			500	50%			501	50%			500	50%		
Income (15 categories)	1,001	8.27	3.33	9.00	1,001	9.01	4.34	9.00	1,001	8.00	4.66	10.00	1,000	8.32	3.66	9.50
Gender	1,001				1,001				1,001				1,000			
Male	540	54%			587	59%			738	74%			408	41%		
Female	460	46%			411	41%			261	26%			583	58%		
Non-binary / third gender	1	0.1%			2	0.2%			1	0.1%			9	0.9%		
Prefer not to say	0	0%			1	0.1%			1	0.1%			0	0%		
Education	1,001				1,001				1,001				1,000			
No schooling completed	1	0.1%			1	0.1%			1	0.1%			3	0.3%		
Primary school	3	0.3%			3	0.3%			1	0.1%			6	0.6%		
Lower secondary school	51	5%			7	0.7%			9	0.9%			9	0.9%		
Vocational degree	241	24%			20	2%			32	3%			59	6%		
High school	89	9%			59	6%			149	15%			221	22%		
College degree	303	30%			487	49%			599	60%			428	43%		
Master's degree or above	313	31%			424	42%			210	21%			274	27%		
Political orientation (left-right)	993	4.17	1.51	4	1,001	4.91	1.55	5	1,001	4.95	1.60	5	998	4.25	1.75	4.00

1,001	13.21	61.43	8.00	1,001	38.71	215.28	2.00	1,001	12.46	111.63	1.00	1,000	32.64	137.25	17.00
1,001	21.50	97.42	12.90	1,001	35.45	203.19	2.20	1,001	17.07	133.07	4.20	1,000	44.37	146.20	25.00
1,001	26.60	102.33	15.00	1,001	34.30	197.43	2.20	1,001	15.58	104.43	7.50	1,000	56.86	178.24	28.00
957	8.92	3.29	8.00	962	6.97	18.20	2.00	971	2.21	5.99	1.00	958	18.53	10.71	17.00
952	14.37	6.35	12.90	962	7.69	19.85	2.20	962	4.56	6.17	4.20	967	28.71	22.30	25.00
967	18.13	11.97	15.00	976	8.16	23.05	2.20	976	5.98	4.05	7.00	955	34.22	34.59	28.00
1,001	1.20	10.24	0.33	1,001	37.71	215.28	1.00	1,001	12.84	124.03	0.11	1,000	2.37	14.15	0.75
1,001	-0.28	3.28	-0.57	1,001	3.03	23.09	-0.75	1,001	2.88	30.24	-0.045	1,000	-0.41	1.96	-0.67
1,001	-0.71	1.10	-0.84	1,001	0.059	6.09	-0.93	1,001	0.69	11.35	-0.18	1,000	-0.79	0.66	-0.90
957	0.49	0.55	0.33	962	5.97	18.20	1.00	971	1.46	6.66	0.11	958	0.91	1.10	0.75
952	-0.52	0.21	-0.57	962	-0.13	2.26	-0.75	962	0.037	1.40	-0.045	967	-0.62	0.30	-0.67
967	-0.81	0.13	-0.84	976	-0.75	0.71	-0.93	976	-0.35	0.44	-0.24	955	-0.87	0.13	-0.90
1,001	1.92	9.70	1.20	1,001	37.65	212.27	1.89	1,001	12.15	119.04	0.48	1,000	3.15	14.03	1.60
931	1.30	0.58	1.20	949	6.75	18.13	1.89	956	1.42	4.94	0.48	920	1.81	1.12	1.65
1,001	4.40	1.23	4.42	1,001	5.06	1.04	5.08	1,001	4.73	0.97	4.75	1,000	4.04	1.41	4.17
1,001	4.23	1.78	4	1,001	4.60	1.92	5	1,001	4.48	1.84	5	1,000	3.60	2.07	4.00
	1,001 1,001 1,001 957 952 967 1,001 1,001 957 952 967 1,001 931	1,00113.211,00121.501,00126.609578.9295214.3796718.131,0011.201,001-0.281,001-0.719570.49952-0.52967-0.811,0011.929311.301,0014.401,0014.23	1,00113.2161.431,00121.5097.421,00126.60102.339578.923.2995214.376.3596718.1311.971,0011.2010.241,001-0.283.281,001-0.711.109570.490.55952-0.520.21967-0.810.131,0011.929.709311.300.581,0014.401.231,0014.231.78	1,001 13.21 61.43 8.00 $1,001$ 21.50 97.42 12.90 $1,001$ 26.60 102.33 15.00 957 8.92 3.29 8.00 957 8.92 3.29 8.00 957 14.37 6.35 12.90 967 18.13 11.97 15.00 $1,001$ 1.20 10.24 0.33 $1,001$ 1.20 10.24 0.33 $1,001$ -0.71 1.10 -0.84 957 0.49 0.55 0.33 952 -0.52 0.21 -0.57 967 -0.81 0.13 -0.84 $1,001$ 1.92 9.70 1.20 931 1.30 0.58 1.20 $1,001$ 4.40 1.23 4.42 $1,001$ 4.23 1.78 4	1,001 13.21 61.43 8.00 $1,001$ $1,001$ 21.50 97.42 12.90 $1,001$ $1,001$ 26.60 102.33 15.00 $1,001$ 957 8.92 3.29 8.00 962 952 14.37 6.35 12.90 962 967 18.13 11.97 15.00 976 $1,001$ 1.20 10.24 0.33 $1,001$ $1,001$ -0.28 3.28 -0.57 $1,001$ $1,001$ -0.71 1.10 -0.84 $1,001$ 957 0.49 0.55 0.33 962 952 -0.52 0.21 -0.57 962 967 -0.81 0.13 -0.84 976 $1,001$ 1.92 9.70 1.20 $1,001$ 931 1.30 0.58 1.20 949 $1,001$ 4.40 1.23 4.42 $1,001$ $1,001$ 4.23 1.78 4 $1,001$	1,001 13.21 61.43 8.00 $1,001$ 38.71 $1,001$ 21.50 97.42 12.90 $1,001$ 35.45 $1,001$ 26.60 102.33 15.00 $1,001$ 34.30 957 8.92 3.29 8.00 962 6.97 952 14.37 6.35 12.90 962 7.69 967 18.13 11.97 15.00 976 8.16 $1,001$ 1.20 10.24 0.33 $1,001$ 37.71 $1,001$ -0.28 3.28 -0.57 $1,001$ 3.03 $1,001$ -0.71 1.10 -0.84 $1,001$ 0.059 957 0.49 0.55 0.33 962 -0.13 967 -0.81 0.13 -0.84 976 -0.75 967 -0.81 0.13 -0.84 976 -0.75 931 1.30 0.58 1.20 949 6.75 931 4.40 1.23 4.42 $1,001$ 5.06 $1,001$ 4.23 1.78 4 $1,001$ 4.60	1,001 13.21 61.43 8.00 $1,001$ 38.71 215.28 $1,001$ 21.50 97.42 12.90 $1,001$ 35.45 203.19 $1,001$ 26.60 102.33 15.00 $1,001$ 34.30 197.43 957 8.92 3.29 8.00 962 6.97 18.20 952 14.37 6.35 12.90 962 7.69 19.85 967 18.13 11.97 15.00 976 8.16 23.05 $1,001$ 1.20 10.24 0.33 $1,001$ 37.71 215.28 $1,001$ 1.20 10.24 0.33 $1,001$ 37.71 215.28 $1,001$ -0.28 3.28 -0.57 $1,001$ 3.03 23.09 $1,001$ -0.71 1.10 -0.84 $1,001$ 0.059 6.09 957 0.49 0.55 0.33 962 5.97 18.20 957 0.49 0.55 0.33 962 -0.13 2.26 967 -0.81 0.13 -0.84 976 -0.75 0.71 $1,001$ 1.92 9.70 1.20 $1,001$ 37.65 212.27 931 1.30 0.58 1.20 949 6.75 18.13 $1,001$ 4.40 1.23 4.42 $1,001$ 4.60 1.92	1,001 13.21 61.43 8.00 $1,001$ 38.71 215.28 2.00 $1,001$ 21.50 97.42 12.90 $1,001$ 35.45 203.19 2.20 $1,001$ 26.60 102.33 15.00 $1,001$ 34.30 197.43 2.20 957 8.92 3.29 8.00 962 6.97 18.20 2.00 952 14.37 6.35 12.90 962 7.69 19.85 2.20 967 18.13 11.97 15.00 976 8.16 23.05 2.20 $1,001$ 1.20 10.24 0.33 $1,001$ 37.71 215.28 1.00 $1,001$ -0.28 3.28 -0.57 $1,001$ 3.03 23.09 -0.75 $1,001$ -0.71 1.10 -0.84 $1,001$ 0.059 6.09 -0.93 957 0.49 0.55 0.33 962 5.97 18.20 1.00 952 -0.52 0.21 -0.57 962 -0.13 2.26 -0.75 967 -0.81 0.13 -0.84 976 -0.75 0.71 -0.93 931 1.30 0.58 1.20 949 6.75 18.13 1.89 931 1.40 1.23 4.42 $1,001$ 5.06 1.04 5.08 $1,001$ 4.23 1.78 4 $1,001$ 4.60 1.92 5	1,001 13.21 61.43 8.00 $1,001$ 38.71 215.28 2.00 $1,001$ $1,001$ 21.50 97.42 12.90 $1,001$ 35.45 203.19 2.20 $1,001$ $1,001$ 26.60 102.33 15.00 $1,001$ 34.30 197.43 2.20 $1,001$ 957 8.92 3.29 8.00 962 6.97 18.20 2.00 971 952 14.37 6.35 12.90 962 7.69 19.85 2.20 962 967 18.13 11.97 15.00 976 8.16 23.05 2.20 976 $1,001$ 1.20 10.24 0.33 $1,001$ 37.71 215.28 1.000 $1,001$ $1,001$ -0.28 3.28 -0.57 $1,001$ 3.03 23.09 -0.75 $1,001$ $1,001$ -0.71 1.10 -0.84 $1,001$ 0.059 6.09 -0.93 $1,001$ 957 0.49 0.55 0.33 962 5.97 18.20 1.00 971 952 -0.52 0.21 -0.57 962 -0.13 2.26 -0.75 962 967 -0.81 0.13 -0.84 976 -0.75 0.71 -0.93 976 967 -0.52 0.21 -0.57 962 -0.75 0.71 -0.93 976 967 -0.52 0.21 -0.57 962 -0.75 1.813	1,00113.2161.438.001,001 38.71 215.282.001,00112.461,00121.5097.4212.901,001 35.45 203.192.201,00117.071,00126.60102.3315.001,001 34.30 197.432.201,00115.589578.923.298.009626.9718.202.009712.2195214.376.3512.909627.6919.852.209624.5696718.1311.9715.009768.1623.052.209765.981,0011.2010.240.331,00137.71215.281.001,00112.841,001-0.283.28-0.571,0013.0323.09-0.751,0012.881,001-0.711.10-0.841,0010.0596.09-0.931,0010.699570.490.550.339625.9718.201.009711.46952-0.520.21-0.57962-0.750.71-0.93976-0.359671.300.581.201,00137.65212.271.891,00112.159311.300.581.209496.7518.131.899561.421,0014.401.234.421,0015.061.045.081,0014.731,0014.23 </td <td>1,001 13.21 61.43 8.00 1,001 38.71 215.28 2.00 1,001 12.46 11.63 1,001 21.50 97.42 12.90 1,001 35.45 203.19 2.20 1,001 17.07 133.07 1,001 26.60 102.33 15.00 1,001 34.30 197.43 2.20 1,001 15.58 104.43 957 8.92 3.29 8.00 962 7.69 18.20 2.00 971 2.21 5.99 952 14.37 6.35 12.90 962 7.69 19.85 2.20 962 4.56 6.17 967 18.13 11.97 15.00 976 8.16 23.05 2.20 976 5.98 4.05 1,001 1.22 10.24 0.33 1,001 37.1 21.528 1.00 1,001 12.84 12.03 1,001 -0.28 3.28 -0.57 1,001 3.03 2.09</td> 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6.97 18.20 2.00 971 2.21 5.99 1.00 958 18.53 952 14.37 6.35 12.90 962 7.69 19.85 2.20 976 5.98 4.05 7.00 955 34.22 1,001 1.20 10.24 0.33 1.001 37.71 215.28 1.00 1.001 12.84 124.03 0.11 1.000 2.37</td> <td>1.001 13.21 61.43 8.00 1.001 38.71 21.528 2.00 1.001 12.46 111.63 1.000 32.64 13.725 1.001 21.50 97.42 12.90 1.001 35.45 203.19 2.20 1.001 17.07 133.07 4.20 1.000 44.37 146.20 1.001 26.60 102.33 15.00 1.001 34.30 197.43 2.20 1.001 15.8 104.43 7.50 1.000 56.86 178.24 957 8.92 3.29 8.00 962 6.97 18.20 2.00 971 2.21 5.99 1.00 958 18.53 1.071 957 14.37 6.35 12.09 962 7.69 19.85 2.20 962 4.56 6.17 4.20 967 34.22 34.21 1.001 1.22 0.33 1.001 3.71 12.528 1.00 1.001 1.28 1.203 0.11 1.00<</td>	1,001 13.21 61.43 8.00 1,001 38.71 215.28 2.00 1,001 12.46 11.63 1,001 21.50 97.42 12.90 1,001 35.45 203.19 2.20 1,001 17.07 133.07 1,001 26.60 102.33 15.00 1,001 34.30 197.43 2.20 1,001 15.58 104.43 957 8.92 3.29 8.00 962 7.69 18.20 2.00 971 2.21 5.99 952 14.37 6.35 12.90 962 7.69 19.85 2.20 962 4.56 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Expand public transport	1,001	4.98	1.72	5	1,001	6.05	1.38	7	1,001	5.66	1.49	6	1,000	5.09	1.64	5.00
Increase price of peak electricity consumption	1,001	3.12	1.79	3	1,001	3.76	2.05	4	1,001	4.08	2.09	4	1,000	3.05	1.94	3.00
Subsize renewable energy	1,001	5.50	1.55	6	1,001	5.89	1.53	7	1,001	5.18	1.71	5	1,000	4.85	1.92	5.00
Strengthen energy efficiency requirements in buildings	1,001	5.20	1.45	5	1,001	5.74	1.40	6	1,001	5.50	1.48	6	1,000	5.04	1.70	5.00
Mandate GHG disclosure by banks and investment companies	1,001	4.21	1.80	4	1,001	5.46	1.56	6	1,001	5.14	1.65	5	1,000	4.31	1.96	4.00
Tax on red meat	1,001	3.25	2.00	3	1,001	4.64	2.10	5	1,001	3.82	1.92	4	1,000	2.88	1.96	2.00
Tax on air travel	1,001	4.30	1.95	4	1,001	4.19	1.97	4	1,001	4.13	1.87	4	1,000	3.26	1.98	3.00
Introduce mandatory carbon footprint label	1,001	4.46	1.71	4	1,001	5.48	1.55	6	1,001	5.04	1.62	5	1,000	4.19	1.94	4.00
Ban diesel and petrol cars	1,001	3.27	1.95	3	1,001	3.97	2.03	4	1,001	3.82	2.16	4	1,000	2.94	1.96	3.00
Subsidize CDR technologies	1,001	5.39	1.49	6	1,001	5.44	1.79	6	1,001	5.15	1.66	5	1,000	4.80	1.86	5.00
Subsidize low-impact foods	1,001	4.85	1.71	5	1,001	5.52	1.66	6	1,001	4.80	1.84	5	1,000	4.51	1.93	5.00
Perceived fairness of actual carbon footprint inequality	1,001	3.12	1.65	3	1,001	4.01	2.11	4	1,001	4.17	1.80	4	1,000	3.37	1.91	3.00
Psychological																
Climate change concern	1,001	4.43	1.48	4.50	1,001	6.15	1.14	6.50	1,001	5.53	1.34	5.50	1,000	4.55	1.92	5.00
Personal norms	1,001	4.53	1.69	5	1,001	6.02	1.26	7	1,001	5.56	1.34	6	1,000	4.37	1.94	5.00
Descriptive norms	1,001	4.01	1.46	4	1,001	5.28	1.58	6	1,001	4.86	1.59	5	1,000	3.81	1.84	4.00
Trust in government	1,001	3.57	1.58	4	1,001	5.21	1.64	5	1,001	3.96	2.06	4	1,000	3.29	1.88	3.00

	Withou (pre-re	t outliers gistered)	Full	sample
	Estimates	95% CI	Estimates	95% CI
(Intercept)	2.21 ***	1.42, 3.01	14.65 ***	8.83, 20.47
Estimation error (Top 1%)	-2.90 ***	-3.15, -2.65	-13.72 ***	-16.77, -10.67
Estimation error (Top 10%)	-2.51 ***	-2.76, -2.26	-12.23 ***	-15.27, -9.18
Income segment (Top 10%)	-0.01	-0.23, 0.21	-2.25	-5.10, 0.60
Random Effects				
σ^2	31.37		4,841.87	
$ au_{00}$	1.71 ResponseId		503.16 Response	seId
	0.61 country		27.80 country	
ICC	0.07		0.10	
Ν	4 country		4 country	
	3,970 ResponseId		4,003 Responsed	'd
Observations	11,565		12,009	
Marginal R ² / Conditional R ²	0.047 / 0.112		0.007 / 0.105	5

Supplementary Table 2. Relative estimation error associated with estimated personal carbon footprints (test of hypothesis 1).

Income segment (Top 10%) refers to participants belonging to the Top 10% of income within their country and shows coefficients relative to belonging to the general population. ${}^*p < .05$, ${}^{**}p < .01$, ${}^{***}p < .001$

	Total	Denmark	India	Nigeria	United States
(Intercept)	1.25 **	1.31 ***	6.76 ***	1.51 ***	1.85 ***
	[0.49, 2.00]	[1.24, 1.37]	[4.82, 8.69]	[1.01, 2.02]	[1.70, 2.00]
Climate change	-0.21	0.01	-0.25	-0.82 ***	-0.15 *
concern	[-0.65, 0.23]	[-0.05, 0.07]	[-1.82, 1.32]	[-1.24, -0.40]	[-0.29, -0.01]
Personal norm	-0.25	-0.07 *	-1.44	0.54 **	0.10
	[-0.71, 0.21]	[-0.13, -0.01]	[-3.03, 0.15]	[0.13, 0.94]	[-0.05, 0.25]
Descriptive norm	0.54 **	0.03	1.45 *	0.35	0.06
	[0.16, 0.92]	[-0.01, 0.08]	[0.06, 2.84]	[-0.03, 0.73]	[-0.05, 0.18]
Trust in government	0.39 *	-0.02	1.25	-0.09	0.02
	[0.06, 0.72]	[-0.05, 0.02]	[-0.07, 2.57]	[-0.44, 0.25]	[-0.07, 0.10]
Political orientation	0.59 ***	0.06 **	1.98 **	-0.02	0.05
	[0.28, 0.90]	[0.02, 0.10]	[0.74, 3.21]	[-0.35, 0.32]	[-0.03, 0.13]
Age	-0.26	-0.02	-0.18	-0.97 ***	-0.08 *
	[-0.57, 0.06]	[-0.05, 0.02]	[-1.36, 1.01]	[-1.31, -0.62]	[-0.16, -0.00]
Top 10% of income	-0.19	-0.07	0.09	-0.18	-0.12
	[-0.83, 0.44]	[-0.14, 0.01]	[-2.26, 2.44]	[-0.89, 0.53]	[-0.27, 0.04]
Female	0.29	0.06	-0.00	0.05	0.04
	[-0.35, 0.92]	[-0.02, 0.13]	[-2.35, 2.34]	[-0.66, 0.76]	[-0.12, 0.20]
Ref. (Denmark)					
India	5.50 *** [4.64, 6.35]				
Nigeria	0.18 [-0.68, 1.05]				
United States	0.48 [-0.39, 1.35]				
Observations	3,747	923	949	956	919
R^2 / R^2 adjusted	0.065 / 0.061	0.030 / 0.021	0.030 / 0.020	0.052 / 0.043	0.020 / 0.010

Supplementary Table 3. Linear regression models predicting carbon footprint inequality perception with covariates by country.

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. $p^* < .05$, $p^* < .01$, $p^* < .001$

	Without outliers (pre-registered)		Full	sample	Top 10% reference		
	Estimates	95% CI	Estimates	95% CI	Estimates	95% CI	
(Intercept)	4.52 ***	4.14, 4.91	4.50 ***	4.13, 4.88	4.53 ***	4.16, 4.91	
CF inequality perception	-0.07 ***	-0.11, -0.03	-0.03	-0.06, 0.01	-0.07 ***	-0.10, -0.03	
Top 10% of income	0.08 *	0.01, 0.16	0.11 **	0.04, 0.18	0.09 *	0.01, 0.16	
Random Effects							
σ^2	1.34		1.37		1.34		
$ au_{00}$	0.15 country		0.14 country		$0.14 _{country}$		
ICC	0.10		0.09		0.10		
Ν	4 country		4 country		4 country		
Observations	3,756		4,003		3,757		
Marginal R ² / Conditional R ²	0.004 / 0.1	06	0.002 / 0.0)96	0.004 / 0.1	01	

Supplementary Table 4. Composite climate policy support (test of hypothesis 2).

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country. *p < .05, **p < .01, ***p < .001

	Total	Denmark	India	Nigeria	United States
(Intercept)	4.37 *** [4.29, 4.45]	4.38 *** [4.27, 4.49]	4.92 *** [4.92, 5.01]	4.77 *** [4.69, 4.86]	4.02 *** [3.89, 4.15]
CF inequality perception	-0.07 *** [-0.11, -0.03]	-0.17 *** [-0.25, -0.09]	0.00 [-0.06, 0.07]	-0.12 *** [-0.18, -0.06]	0.00 [-0.09, 0.09]
Top 10% of income	0.08 * [0.01, 0.16]	0.07 [-0.08, 0.23]	0.29 *** [0.16, 0.42]	-0.03 [-0.15, 0.09]	-0.01 [-0.19, 0.17]
Ref. (Denmark)					
India	0.65 *** [0.55, 0.76]				
Nigeria	0.34 *** [0.24, 0.45]				
United States	-0.40 *** [-0.50, -0.29]				
Observations	3,756	931	949	956	920
R^2 / R^2 adjusted	0.106 / 0.105	0.020 / 0.018	0.020 / 0.018	0.015 / 0.013	0.000 / -0.002

Supplementary Table 5. Linear regression models predicting composite climate policy support by country.

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country. p < .05, p < .01, p < .01

Supplementary Table 6. Linear regression models predicting composite climate policy support with an interaction effect between carbon footprint inequality perception and participants' income segment.

	Total	Denmark	India	Nigeria	United States
(Intercept)	4.37 *** [4.29, 4.46]	4.37 *** [4.26, 4.49]	4.92 *** [4.83, 5.01]	4.77 *** [4.69, 4.86]	4.02 *** [3.89, 4.15]
CF inequality perception	-0.09 *** [-0.13, -0.04]	-0.10 * [-0.20, -0.01]	-0.01 [-0.11, 0.09]	-0.15 *** [-0.21, -0.08]	-0.05 [-0.17, 0.07]
Top 10% of income	0.09 * [0.01, 0.16]	0.07 [-0.09, 0.23]	0.29 *** [0.16, 0.42]	-0.03 [-0.15, 0.09]	-0.01 [-0.19, 0.18]
CF inequality perception × Top 10% of income	0.05 [-0.03, 0.12]	-0.18 * [-0.35, -0.02]	0.03 [-0.11, 0.16]	0.13 [-0.02, 0.28]	0.12 [-0.07, 0.30]
Ref. (Denmark)					
India	0.65 *** [0.55, 0.76]				
Nigeria	0.34 *** [0.24, 0.45]				
United States	-0.40 *** [-0.50, -0.29]				
Observations	3,756	931	949	956	920
R^2 / R^2 adjusted	0.107 / 0.105	0.026 / 0.022	0.020 / 0.017	0.018 / 0.015	0.002 / -0.002

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country. p < .05, p < .01, p < .01

	Climate po	olicy support
	Estimates	95% CI
(Intercept)	4.38 ***	4.30, 4.45
CF inequality perception	-0.05 ***	-0.08, -0.02
Climate change concern	0.40 ***	0.36, 0.44
Personal norm	0.23 ***	0.19, 0.28
Descriptive norm	0.08 ***	0.04, 0.12
Trust in government	0.18 ***	0.15, 0.21
Political orientation	-0.11 ***	-0.14, -0.08
Age	0.02	-0.01, 0.05
Top 10% of income	0.06 *	0.00, 0.12
Female	0.00	-0.06, 0.07
Ref. (Denmark)		
India	0.66 ***	0.58, 0.74
Nigeria	0.34 ***	0.26, 0.42
United States	-0.38 ***	-0.47, -0.30
Random Effects		
σ^2	2.66	
τ_{00} ResponseId	0.60	
ICC	0.19	
N ResponseId	3,747	
Observations	44,964	
Marginal R ² / Conditional R ²	0.171 / 0.324	

Supplementary Table 7. Mixed-effects model predicting composite climate policy support with covariates

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. *p < .05, **p < .01, ***p < .001

	Total	Denmark	India	Nigeria	United States
(Intercept)	4.38 ***	4.33 ***	5.01 ***	4.83 ***	4.06 ***
	[4.30, 4.45]	[4.24, 4.42]	[4.91, 5.11]	[4.74, 4.92]	[3.93, 4.18]
CF inequality perception	-0.05 ***	-0.06 *	-0.02	-0.09 **	-0.01
	[-0.08, -0.02]	[-0.12, -0.01]	[-0.08, 0.03]	[-0.14, -0.03]	[-0.07, 0.05]
Climate change	0.40 ^{***}	0.52 ***	0.18 ***	0.25 ***	0.61 ***
concern	[0.36, 0.44]	[0.43, 0.60]	[0.10, 0.26]	[0.18, 0.32]	[0.49, 0.72]
Personal norm	0.23 ***	0.29 ***	0.19 ***	0.13 ***	0.17 **
	[0.19, 0.28]	[0.20, 0.38]	[0.11, 0.27]	[0.06, 0.20]	[0.04, 0.29]
Descriptive norm	0.08 ***	0.00	0.06	0.10 **	0.14 **
	[0.04, 0.12]	[-0.06, 0.06]	[-0.01, 0.13]	[0.03, 0.16]	[0.05, 0.23]
Trust in government	0.18 ^{***}	0.17 ***	0.07 *	0.06	0.23 ***
	[0.15, 0.21]	[0.11, 0.22]	[0.00, 0.14]	[-0.00, 0.12]	[0.15, 0.30]
Political orientation	-0.11 ***	-0.20 ***	0.13 ***	0.04	-0.12 ***
	[-0.14, -0.08]	[-0.26, -0.15]	[0.07, 0.19]	[-0.02, 0.10]	[-0.19, -0.06]
Age	0.02	-0.03	0.13 ***	0.19 ***	-0.12 ***
	[-0.01, 0.05]	[-0.08, 0.03]	[0.07, 0.19]	[0.13, 0.26]	[-0.18, -0.06]
Top 10% of income	0.06 *	0.10	0.14 *	-0.05	-0.07
	[0.00, 0.12]	[-0.01, 0.21]	[0.03, 0.26]	[-0.17, 0.08]	[-0.19, 0.06]
Female	0.36	0.06	-0.04	-0.21 ***	0.03
	[-0.06, 0.07]	[-0.05, 0.17]	[-0.16, 0.08]	[-0.34, -0.09]	[-0.66, 0.72]
Ref. (Denmark)					
India	0.66 *** [0.57, 0.74]				
Nigeria	0.34 *** [0.26, 0.42]				
United States	-0.38 *** [-0.47, -0.30]				
Observations	3,747	923	949	956	919
R^2 / R^2 adjusted	0.449 / 0.447	0.569 / 0.564	0.245 / 0.236	0.254 / 0.246	0.577 / 0.573

Supplementary Table 8. Linear regression models predicting composite support for climate policies with covariates by country

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. $p^* < .05$, $p^* < .01$, $p^* < .001$

	Withou (pre-re	Without outliers (pre-registered)		sample	Top 10% referenc		
	Estimates	95% CI	Estimates	95% CI	Estimates	95% CI	
(Intercept)	3.43 ***	3.00, 3.87	3.45 ***	3.02, 3.88	3.43 ***	2.99, 3.87	
CF inequality perception	0.16 ***	0.10, 0.22	0.09 **	0.03, 0.14	0.19 ***	0.13, 0.25	
Top 10% of income	0.44 ***	0.32, 0.56	0.43 ***	0.31, 0.54	0.44 ***	0.32, 0.56	
Random Effects							
σ^2	3.45		3.47		3.44		
$ au_{00}$	$0.19_{country}$		$0.19_{\text{ country}}$		$0.19_{\text{ country}}$		
ICC	0.05		0.05		0.05		
Ν	4 country		4 country		4 country		
Observations	3,756		4,003		3,757		
Marginal R ² / Conditional R ²	0.020 / 0.0	71	0.014 / 0.0	64	0.022 / 0.0	74	

Supplementary Table 9. Perceived fairness of actual carbon footprint inequality (test of hypothesis 3).

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country. *p < .05, **p < .01, ***p < .001

	Total	Denmark	India	Nigeria	United States
(Intercept)	2.89 *** [2.75, 3.02]	2.88 *** [2.73, 3.03]	3.89 *** [3.70, 4.08]	3.86 *** [3.70, 4.02]	3.12 *** [2.95, 3.29]
CF inequality perception	0.16 *** [0.10, 0.22]	0.06 [-0.05, 0.17]	0.36 *** [0.23, 0.50]	0.09 [-0.02, 0.20]	0.15 * [0.03, 0.27]
Top 10% of income	0.44 *** [0.32, 0.56]	0.46 *** [0.25, 0.67]	0.20 [-0.06, 0.47]	0.62 *** [0.39, 0.84]	0.46 *** [0.22, 0.71]
Ref. (Denmark)					
India	0.88 *** [0.72, 1.05]				
Nigeria	1.07 *** [0.90, 1.23]				
United States	0.24 ** [0.07, 0.41]				
Observations	3,756	931	949	956	920
R^2 / R^2 adjusted	0.072 / 0.070	0.020 / 0.018	0.032 / 0.030	0.031 / 0.029	0.020 / 0.018

Supplementary Table 10. Linear regression models predicting perceived fairness of actual carbon footprint inequality by country.

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country. $p^* < .05$, $p^* < .01$, $p^* < .01$

Supplementary Table 11. Linear regression models predicting perceived fairness actual carbon footprint inequality with an interaction effect between carbon footprint inequality perception and participants' income segment.

	Total	Denmark	India	Nigeria	United States
(Intercept)	2.89 *** [2.76, 3.02]	2.88 *** [2.73, 3.03]	3.89 *** [3.70, 4.08]	3.87 *** [3.71, 4.02]	3.12 *** [2.95, 3.30]
CF inequality perception	0.09 * [0.01, 0.16]	0.04 [-0.09, 0.18]	0.25 * [0.05, 0.45]	0.06 [-0.07, 0.18]	0.06 [-0.10, 0.22]
Top 10% of income	0.45 *** [0.33, 0.56]	0.46 *** [0.25, 0.67]	0.20 [-0.06, 0.47]	0.62 *** [0.40, 0.85]	0.47 *** [0.22, 0.71]
CF inequality perception × Top 10% of income	0.19 ** [0.07, 0.31]	0.04 [-0.18, 0.26]	0.21 [-0.06, 0.47]	0.15 [-0.13, 0.42]	0.20 [-0.05, 0.45]
Ref. (Denmark)					
India	0.88 *** [0.71, 1.05]				
Nigeria	1.07 *** [0.90, 1.23]				
United States	0.24 ** [0.08, 0.41]				
Observations	3,756	931	949	956	920
R^2 / R^2 adjusted	0.074 / 0.073	0.020 / 0.017	0.034 / 0.031	0.032 / 0.029	0.023 / 0.019

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country. p < .05, p < .01, p < .01

	Perceive	Perceived fairness		
	Estimates	95% CI		
(Intercept)	3.59 ***	3.16, 4.02		
CF inequality perception	0.10 ***	0.05, 0.16		
Climate change concern	-0.13 **	-0.21, -0.05		
Personal norm	-0.06	-0.14, 0.03		
Descriptive norm	0.21 ***	0.14, 0.28		
Trust in government	0.31 ***	0.25, 0.37		
Political orientation	0.46 ***	0.41, 0.52		
Age	-0.09 **	-0.15, -0.03		
Top 10% of income	0.28 ***	0.16, 0.39		
Female	-0.17 **	-0.28, -0.05		
Random Effects				
σ^2	3.03			
$\tau_{00 \text{ country}}$	0.18			
ICC	0.06			
N country	4			
Observations	3,747			
Marginal R ² / Conditional R ²	0.132 / 0.181			

Supplementary Table 12. Mixed-effects model predicting perceived fairness of actual carbon footprint inequality with covariates.

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. $p^* < .05$, $p^* < .01$, $p^{***} < .001$

	Total	Denmark	India	Nigeria	United States
(Intercept)	3.04 ***	3.00 ***	3.89 ***	4.04 ***	3.34 ***
	[2.90, 3.18]	[2.83, 3.17]	[3.68, 4.10]	[3.87, 4.21]	[3.11, 3.57]
CF inequality perception	0.10 ***	-0.02	0.24 ***	0.11 *	0.08
	[0.05, 0.16]	[-0.12, 0.08]	[0.11, 0.37]	[0.00, 0.21]	[-0.04, 0.19]
Climate change	-0.13 **	-0.25 **	-0.06	0.20 **	-0.37 ***
concern	[-0.21, -0.05]	[-0.41, -0.09]	[-0.23, 0.11]	[0.05, 0.34]	[-0.58, -0.16]
Personal norm	-0.06	-0.10	-0.15	0.16 *	-0.04
	[-0.14, 0.03]	[-0.27, 0.06]	[-0.32, 0.02]	[0.03, 0.30]	[-0.27, 0.20]
Descriptive norm	0.21 ***	0.08	0.38 ***	0.09	0.21 *
	[0.14, 0.28]	[-0.04, 0.20]	[0.23, 0.53]	[-0.04, 0.22]	[0.04, 0.38]
Trust in government	0.31 ***	0.15 **	0.36 ***	0.38 ***	0.39 ***
	[0.25, 0.37]	[0.05, 0.25]	[0.22, 0.50]	[0.26, 0.49]	[0.26, 0.53]
Political orientation	0.46 ***	0.41 ***	0.34 ***	0.24 ***	0.53 ***
	[0.41, 0.52]	[0.30, 0.52]	[0.20, 0.47]	[0.13, 0.35]	[0.40, 0.65]
Age	-0.09 **	-0.25 ***	-0.03	0.12 *	-0.23 ***
	[-0.15, -0.03]	[-0.35, -0.15]	[-0.16, 0.10]	[0.00, 0.24]	[-0.35, -0.12]
Top 10% of income	0.28 ***	0.40 ***	0.07	0.49 ***	0.24
	[0.16, 0.39]	[0.20, 0.61]	[-0.19, 0.32]	[0.25, 0.73]	[-0.00, 0.48]
Female	-0.16 **	-0.21 *	0.20	-0.47 ***	-0.20
	[-0.28, -0.05]	[-0.41, -0.01]	[-0.05, 0.46]	[-0.71, -0.24]	[-0.44, 0.05]
Ref. (Denmark)					
India	0.90 *** [0.74, 1.06]				
Nigeria	1.04 *** [0.88, 1.20]				
United States	0.27 ** [0.11, 0.43]				
Observations	3,747	923	949	956	919
R^2 / R^2 adjusted	0.183 / 0.180	0.163 / 0.153	0.155 / 0.145	0.209 / 0.200	0.191 / 0.182

Supplementary Table 13. Linear regression models predicting perceived fairness of actual carbon footprint inequality with covariates by country.

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. $p^* < .05$, $p^* < .01$, $p^* < .001$

	Sensitivity analysis			
	Estimates	95% CI		
(Intercept)	1.45 ***	0.94, 1.95		
Estimation error (Top 1%)	-2.21 ***	-2.36, -2.05		
Estimation error (Top 10%)	-1.70 ***	-1.85, -1.55		
Income segment (Top 10%)	0.07	-0.06, 0.20		
Random Effects				
σ^2	11.20			
τ_{00} ResponseId	0.27			
$\tau_{00 \text{ country}}$	0.25			
ICC	0.04			
N country	4			
N ResponseId	3,943			
Observations	11,302			
Marginal R ² / Conditional R ²	0.071 / 0.112			

Supplementary Table 14. Sensitivity analysis of relative estimation error associated with estimated personal carbon footprints with additional outlier removal (*H1*).

Income segment (Top 10%) refers to participants belonging to the Top 10% of income within their country and shows coefficients relative to belonging to the general population. *p < .05, **p < .01, ***p < .001

Supplementary Table 15. Sensitivity analysis of linear regression models predicting carbon footprint inequality perception with covariates by country with additional outlier removal (+/-3SD).

	Total	Denmark	India	Nigeria	United States
(Intercept)	1.18 ***	1.25 ***	4.86 ***	0.64 ***	1.71 ***
	[0.75, 1.62]	[1.20, 1.30]	[3.74, 5.99]	[0.43, 0.86]	[1.59, 1.84]
Climate change	-0.10	-0.02	-0.27	-0.12	-0.02
concern	[-0.35, 0.15]	[-0.06, 0.03]	[-1.19, 0.64]	[-0.30, 0.06]	[-0.14, 0.09]
Personal norm	-0.28 *	-0.03	-0.91	0.02	-0.01
	[-0.54, -0.01]	[-0.08, 0.01]	[-1.85, 0.03]	[-0.15, 0.19]	[-0.13, 0.12]
Descriptive norm	0.41 ***	0.03	1.06 *	0.26 **	0.03
	[0.19, 0.62]	[-0.00, 0.07]	[0.25, 1.87]	[0.10, 0.42]	[-0.06, 0.13]
Trust in government	0.20 *	-0.00	0.80 *	-0.20 **	0.04
	[0.01, 0.39]	[-0.04, 0.03]	[0.03, 1.56]	[-0.34, -0.05]	[-0.04, 0.11]
Political orientation	0.18 *	0.06 ***	0.47	-0.09	0.06
	[0.01, 0.36]	[0.03, 0.09]	[-0.25, 1.20]	[-0.23, 0.05]	[-0.00, 0.13]
Age	-0.09	-0.00	0.13	-0.57 ***	-0.05
	[-0.27, 0.09]	[-0.03, 0.03]	[-0.56, 0.82]	[-0.72, -0.43]	[-0.11, 0.01]
Top 10% of income	-0.25	-0.02	-1.00	0.54 ***	-0.07
	[-0.61, 0.11]	[-0.08, 0.04]	[-2.37, 0.37]	[0.24, 0.83]	[-0.20, 0.05]
Female	0.43 *	0.06 *	0.88	0.23	0.10
	[0.07, 0.80]	[0.00, 0.12]	[-0.48, 2.25]	[-0.07, 0.53]	[-0.03, 0.23]
Ref. (Denmark)					
India	3.45 *** [2.96, 3.94]				
Nigeria	-0.22 [-0.71, 0.27]				
United States	0.42 [-0.07, 0.91]				
Observations	3,640	896	912	939	893
R ² / R ² adjusted	0.082 / 0.078	0.037 / 0.027	0.028 / 0.017	0.081 / 0.072	0.016 / 0.006

Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. *p < .05, **p < .01, ***p < .001

Supplementary Fig. 1. Support for individual climate policies (Denmark). Results of linear regression models predicting support for individual climate policies. All covariates were standardized, except 'Top 10% of income' and Female (see Methods). Female shows a coefficient relative to identifying as male. Dots represent point estimates with 95% confidence intervals. The sample size is N = 923 for all policies.



Supplementary Fig. 2. Support for individual climate policies (India). Results of linear regression models predicting support for individual climate policies. All covariates were standardized, except 'Top 10% of income' and Female (see Methods). Female shows a coefficient relative to identifying as male. Dots represent point estimates with 95% confidence intervals. The sample size is N = 949 for all policies.



Supplementary Fig. 3. Support for individual climate policies (Nigeria). Results of linear regression models predicting support for individual climate policies. All covariates were standardized, except 'Top 10% of income' and Female (see Methods). Female shows a coefficient relative to identifying as male. Dots represent point estimates with 95% confidence intervals. The sample size is N = 956 for all policies.



Supplementary Fig. 4. Support for individual climate policies (United States). Results of linear regression models predicting support for individual climate policies. All covariates were standardized, except 'Top 10% of income' and Female (see Methods). Female shows a coefficient relative to identifying as male. Dots represent point estimates with 95% confidence intervals. The sample size is N = 919 for all policies.



Supplementary Fig. 5. Sensitivity analysis with additional outlier removal from relative estimation error variables and carbon footprint inequality perception. A, relative estimation error for the Bottom 50% of income with additional outlier removal (+/- 3SD from the pre-registered 2.5-97.5 percentiles per income group and country). B, relative estimation error for the Top 10% of income (+/- 3SD from the pre-registered 2.5-97.5 percentiles per income group and country). C, relative estimation error for the Top 1% of income (+/- 3SD from the pre-registered 2.5-97.5 percentiles per income group and country). D, carbon footprint inequality perception with additional outlier removal. Positive values reflect an underestimation of the average carbon footprint of the Top 1% income group relative to the Bottom 50% income group. In contrast, negative values indicate an overestimation of the average carbon footprint jerception z-standardized at the country level.



Supplementary Fig. 6. Sensitivity analysis of predictors of composite climate policy support with additional outlier removal (+/- 3SD; H2). A, Mixed-effects regression model predicting composite climate policy support at the aggregate level (N = 3,649). B, Countryspecific linear regression models predicting composite climate policy support. The sample sizes are Denmark (N = 904), India (N = 912), Nigeria (N = 939), and the United States (N =894). C, Country-specific linear regression models predicting composite climate policy support with socio-demographic and psychological covariates. All covariates were standardized at the country level, except for Top 10% of income and Female (see Methods). Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. The sample sizes are Denmark (N = 896), India (N = 912), Nigeria (N = 939), and the United States (N = 893). Dots represent point estimates with 95% confidence intervals.



Supplementary Fig. 7. Sensitivity analysis of perceived fairness of actual carbon footprint inequality with additional outlier removal (+/- 3SD; H3). A, Mixed-effects regression model predicting perceived fairness of actual carbon footprint inequality at the aggregate level (N = 3,649). B, Country-specific linear regression models predicting perceived fairness of actual carbon footprint inequality. The sample sizes are Denmark (N =904), India (N = 912), Nigeria (N = 939), and the United States (N = 894). C, Countryspecific linear regression models predicting perceived fairness of actual carbon footprint inequality with socio-demographic and psychological covariates. All covariates were standardized at the country level, except for Top 10% of income and Female (see Methods). Top 10% of income shows a coefficient relative to participants belonging to the 'general population' in their country, whereas Female shows a coefficient relative to identifying as male. The sample sizes are Denmark (N = 896), India (N = 912), Nigeria (N = 939), and the United States (N = 893). Dots represent point estimates with 95% confidence intervals.

