

Supplementary Materials

Table S1 Full name and abbreviation of the countries along the Belt and Road.

Code	Name	Abbrev.	Code	Name	Abbrev.
<i>B&R China</i>			<i>B&R North Africa</i>		
-	China	CHN	68	Algeria	DZA
<i>B&R Northeast Asia</i>			69	Libya	LBY
1	Mongolia	MNG	70	Morocco	MAR
2	Russia	RUS	71	Tunisia	TUN
3	South Korea	KOR	<i>B&R Sub-Saharan Africa</i>		
<i>B&R Central Asia</i>			72	Angola	AGO
4	Kazakhstan	KAZ	73	Benin	BEN
5	Kyrgyzstan	KGZ	74	Botswana	BWA
6	Tajikistan	TJK	75	Burkina Faso	BFA
7	Turkmenistan	TKM	76	Burundi	BDI
8	Uzbekistan	UZB	77	Cameroon	CMR
<i>B&R South Asia</i>			78	Cape Verde	CPV
9	Afghanistan	AFG	79	Central African Republic	CAF
10	Bangladesh	BGD	80	Chad	TCD
11	Maldives	MDV	81	Congo	COG
12	Nepal	NPL	82	Cote d'Ivoire	CIV
13	Pakistan	PAK	83	Djibouti	DJI
14	Sri Lanka	LKA	84	DR Congo	COD
<i>B&R Southeast Asia</i>			85	Eritrea	ERI
15	Brunei	BRN	86	Ethiopia	ETH
16	Cambodia	KHM	87	Gabon	GAB
17	Indonesia	IDN	88	Gambia	GMB
18	Laos	LAO	89	Ghana	GHA
19	Malaysia	MYS	90	Guinea	GIN
20	Myanmar	MMR	91	Kenya	KEN
21	Philippines	PHL	92	Lesotho	LSO
22	Singapore	SGP	93	Liberia	LBR
23	Thailand	THA	94	Madagascar	MDG
24	Viet Nam	VNM	95	Malawi	MWI
<i>B&R West Asia and Middle East</i>			96	Mali	MLI
25	Armenia	ARM	97	Mauritania	MRT
26	Azerbaijan	AZE	98	Mozambique	MOZ
27	Bahrain	BHR	99	Namibia	NAM
28	Egypt	EGY	100	Niger	NER
29	Gaza Strip	PSE	101	Nigeria	NGA
30	Georgia	GEO	102	Rwanda	RWA
31	Iran	IRN	103	Sao Tome and Principe	STP
32	Iraq	IRQ	104	Senegal	SEN

Code	Name	Abbrev.	Code	Name	Abbrev.
33	Kuwait	KWT	105	Seychelles	SYC
34	Lebanon	LBN	106	Sierra Leone	SLE
35	Oman	OMN	107	Somalia	SOM
36	Qatar	QAT	108	South Africa	ZAF
37	Saudi Arabia	SAU	109	Sudan	SUD
38	Syria	SYR	110	Tanzania	TZA
39	Turkey	TUR	111	Togo	TGO
40	UAE	ARE	112	Uganda	UGA
41	Yemen	YEM	113	Zambia	ZMB
<i>B&R Central and Eastern Europe</i>			114	Zimbabwe	ZWE
42	Albania	ALB	<i>B&R North America</i>		
43	Belarus	BLR	115	Antigua	ATG
44	Bosnia and Herzegovina	BIH	116	Barbados	BRB
45	Bulgaria	BGR	117	Costa Rica	CRI
46	Croatia	HRV	118	Cuba	CUB
47	Cyprus	CYP	119	Dominican Republic	DOM
48	Czech Republic	CZE	120	Jamaica	JAM
49	Estonia	EST	121	Nicaragua	NIC
50	Hungary	HUN	122	Panama	PAN
51	Latvia	LVA	123	El Salvador	SLV
52	Lithuania	LTU	124	Trinidad and Tobago	TTO
53	Moldova	MDA	<i>B&R South America</i>		
54	Montenegro	MNE	125	Argentina	ARG
55	Poland	POL	126	Bolivia	BOL
56	Romania	ROU	127	Chile	CHL
57	Serbia	SRB	128	Ecuador	ECU
58	Slovakia	SVK	129	Guyana	GUY
59	Slovenia	SVN	130	Peru	PER
60	TFYR Macedonia	MKD	131	Suriname	SUR
61	Ukraine	UKR	132	Uruguay	URY
<i>B&R Western Europe</i>			133	Venezuela	VEN
62	Austria	AUT	<i>B&R Oceania</i>		
63	Greece	GRC	134	Fiji	FJI
64	Italy	ITA	135	New Zealand	NZL
65	Luxembourg	LUX	136	Papua New Guinea	PNG
66	Malta	MLT	137	Samoa	WSM
67	Portugal	PRT	138	Vanuatu	VUT

Note: Serbia and Montenegro (SCG) are combined when calculated due to the regional classification.

Table S2 Sectoral information and emission sources by category.

Code	Sectoral information in the Eora database	Description in the UNFCCC database	Description in the EDGARv6.0 database
S1	Agriculture	Enteric Fermentation	Enteric fermentation
		Manure Management	Manure management
		Rice Cultivation	Rice cultivation
		Agricultural Soils	Agricultural waste burning
		Prescribed Burning of Savannas Field Burning of Agricultural Residues Other	
S2	Fishing	Agriculture/Forestry/Fishing	
S3	Mining and quarrying	Solid Fuels	Fugitive emissions from solid fuels
		Oil and Natural Gas and Other Emissions from Energy Production	Fugitive emissions from oil and gas
		Mining (excluding fuels) and quarrying	Other Energy Industries
S4	Food and beverages	Food and Beverages Industry	
		Food Processing, Beverages and Tobacco	
S5	Textiles and wearing apparel		
S6	Wood and Paper	Pulp, paper and print	
		Pulp and paper	
		Wood and Wood Products	
S7	Petroleum, chemical and non-metallic mineral products	Petroleum refining	Other Energy Industries
		Manufacture of solid fuels and other energy industries	Production of chemicals
		Chemicals	
		Non-metallic Minerals Chemical industry	

Code	Sectoral information in the Eora database	Description in the UNFCCC database	Description in the EDGARv6.0 database
S8	Metal products	Metal Industry	Production of metals
		Iron and steel	Manufacturing Industries and Construction
		Non-ferrous metals	
S9	Electrical and machinery		
S10	Transport equipment		
S11	Other manufacturing		
S12	Recycling		
S13	Electricity, gas and water	Public electricity and heat production	Public electricity and heat production
S14	Construction	Construction	
S15	Maintenance and repair		
S16	Wholesale trade		
S17	Retail trade		
S18	Hotels and restaurants		
S19	Transport	Transport	Domestic aviation
			Road transportation no resuspension
			Rail transportation
			Inland navigation
			Other transportation
S20	Post and telecommunications		
S21	Financial intermediation and business activities		
S22	Public administration		

Code	Sectoral information in the Eora database	Description in the UNFCCC database	Description in the EDGARv6.0 database
S23	Education, health and other services	Waste	Solid waste disposal on land
			Wastewater handling
			Waste incineration
			Other waste handling
S24	Private households	Residential	Residential and other sectors
S25	Others		
S26	Re-export and re-import		

Table S3 Decoupling coefficients and decoupling status of CH₄ emissions of the countries along the Belt and Road.

Country/Region	Production-based		Consumption-based	
	2005-2013	2013-2021	2005-2013	2013-2021
<i>B&R Northeast Asia</i>				
Mongolia	1.10	2.40	1.25	1.65
Russia	0.35	2.03	0.48	0.19
South Korea	0.14	0.41	-0.03	0.14
<i>B&R Central Asia</i>				
Kazakhstan	0.59	0.25	0.63	-0.35
Kyrgyzstan	0.66	1.34	0.47	0.78
Tajikistan	0.83	0.51	0.96	0.46
Turkmenistan	0.14	-0.13	0.12	-0.17
Uzbekistan	0.17	0.10	0.21	-0.11
<i>B&R South Asia</i>				
Afghanistan	0.29	-0.76	0.26	-0.53
Bangladesh	0.23	0.20	0.23	0.06
Maldives	0.73	0.81	-0.22	-0.01
Nepal	0.22	0.14	0.28	0.15
Pakistan	0.81	0.61	0.75	0.59
Sri Lanka	0.27	-0.17	0.35	0.25
<i>B&R Southeast Asia</i>				
Brunei	1.00	46.19	-0.15	37.60
Cambodia	0.19	0.03	0.20	-0.45
Indonesia	0.60	1.40	0.68	1.30
Laos	0.30	0.25	0.32	0.09
Malaysia	0.03	-0.09	0.30	-0.10
Myanmar	0.07	0.88	0.12	13.10
Philippines	0.28	0.13	0.24	0.24
Singapore	0.60	0.72	0.26	0.02
Thailand	0.50	-0.83	0.50	-1.11
Viet Nam	0.18	0.00	0.24	-0.51
<i>B&R West Asia and Middle East</i>				
Armenia	0.08	-0.33	-0.01	-0.53
Azerbaijan	0.41	-2.02	0.52	-4.43
Bahrain	0.91	-0.87	0.83	-2.11
Egypt	0.05	0.10	0.04	-0.15
Gaza Strip	-	-	-	-
Georgia	-0.04	-0.59	-0.16	-1.43
Iran	0.26	1.72	0.15	1.71
Iraq	0.83	3.78	0.99	1.11
Kuwait	0.13	1.44	0.20	2.88
Lebanon	0.61	-0.68	0.47	-10.56

Country/Region	Production-based		Consumption-based	
	2005-2013	2013-2021	2005-2013	2013-2021
Oman	0.13	0.66	0.17	-0.95
Qatar	0.63	-1.88	0.70	-3.16
Saudi Arabia	0.62	1.04	0.83	-0.41
Syria	1.31	2.06	1.32	2.28
Turkey	1.13	0.51	0.98	0.21
UAE	0.91	0.18	1.19	-0.40
Yemen	1.77	0.83	1.98	0.77
<i>B&R Central and Eastern Europe</i>				
Albania	-0.17	-0.63	-0.25	-0.84
Belarus	0.45	0.26	0.08	121.04
Bosnia and Herzegovina	0.75	1.43	0.22	0.66
Bulgaria	-0.58	0.04	-0.85	0.35
Croatia	10.95	-0.95	-17.06	-1.09
Cyprus	8.98	0.42	0.33	-0.10
Czech Republic	-0.43	-0.39	-0.50	5.33
Estonia	2.78	-0.22	0.66	-0.33
Hungary	-7.96	0.16	-11.25	-0.31
Latvia	0.90	-0.31	-0.12	-0.93
Lithuania	-0.09	-0.41	-0.34	-0.38
Moldova	0.03	-0.07	8.45	0.12
Poland	-0.17	-0.27	-0.13	-0.43
Romania	-0.26	0.42	-0.30	0.45
Serbia and Montenegro	0.33	0.06	1.93	-1.34
Slovakia	-0.24	-0.04	-0.04	-0.02
Slovenia	-1.63	-0.02	-2.45	0.04
TFYR Macedonia	-0.05	-0.33	-0.40	-0.17
Ukraine	-0.02	3.40	0.08	2.98
<i>B&R Western Europe</i>				
Austria	-0.22	-1.03	-0.81	-1.46
Greece	0.69	-3.58	1.07	-5.86
Italy	1.91	-3.32	3.56	-3.51
Luxembourg	0.14	-0.24	0.42	2.21
Malta	-0.55	0.28	-1.43	-0.03
Portugal	3.32	0.98	4.94	0.26
<i>B&R North Africa</i>				
Algeria	0.06	-0.02	0.62	0.76
Libya	2.76	-2.74	1.65	-18.31
Morocco	0.48	0.82	0.52	0.19
Tunisia	0.21	-0.93	0.16	-2.35
<i>B&R Sub-Saharan Africa</i>				
Angola	-0.08	4.99	0.02	8.24
Benin	1.15	0.46	1.01	0.08

Country/Region	Production-based		Consumption-based	
	2005-2013	2013-2021	2005-2013	2013-2021
Botswana	0.14	-1.18	0.20	-1.80
Burkina Faso	0.45	0.45	0.43	0.00
Burundi	1.18	2.45	0.93	1.87
Cameroon	0.11	0.15	0.13	-0.05
Cape Verde	0.15	1.78	-0.77	-5.64
Central African Republic	-2.56	0.66	-2.09	0.52
Chad	1.08	21.07	1.24	13.30
Congo	-0.15	-1.81	-0.14	-0.49
Cote d'Ivoire	0.75	0.04	0.59	0.04
Djibouti	0.08	0.27	-0.04	-0.82
DR Congo	1.05	0.53	1.00	0.06
Eritrea	0.69	0.13	0.18	0.04
Ethiopia	0.31	0.21	0.46	-0.69
Gabon	-1.07	-0.47	-0.73	-2.02
Gambia	1.40	0.43	0.46	0.00
Ghana	0.79	4.09	0.78	2.78
Guinea	1.82	0.58	1.81	0.24
Kenya	0.95	0.68	1.00	0.56
Lesotho	-0.08	-1.06	-0.23	6.63
Liberia	0.54	14.53	0.89	22.75
Madagascar	0.27	0.96	0.53	0.38
Malawi	0.71	1.38	0.57	1.19
Mali	1.20	0.95	1.14	0.49
Mauritania	0.39	0.57	0.14	0.19
Mozambique	0.89	0.45	0.87	-0.15
Namibia	-0.22	3.58	-0.15	-0.90
Niger	0.53	0.86	0.56	0.75
Nigeria	-0.10	0.16	0.08	-0.38
Rwanda	0.29	0.31	0.29	0.02
Sao Tome and Principe	0.52	0.78	-0.94	-0.27
Senegal	1.18	0.38	1.08	0.15
Seychelles	0.35	0.65	-1.10	0.83
Sierra Leone	0.29	2.33	0.30	-2.58
Somalia	0.00	0.08	-0.01	0.01
South Africa	0.29	-1.91	0.07	-1.29
Sudan	-1.28	150.01	-274.42	214.92
Tanzania	0.55	0.42	0.43	0.40
Togo	0.92	0.46	0.68	0.23
Uganda	0.76	0.64	0.73	0.27
Zambia	0.44	0.24	0.34	-0.23
Zimbabwe	0.37	0.31	-2.20	257.07

Country/Region	Production-based		Consumption-based	
	2005-2013	2013-2021	2005-2013	2013-2021
Antigua	206.09	-0.10	498.91	-1.94
Barbados	4.55	-0.16	27.41	2.18
Costa Rica	0.38	0.52	0.41	0.08
Cuba	0.34	7.79	0.31	19.21
Dominican Republic	0.59	0.28	0.59	0.08
Jamaica	21.93	-15.36	26.85	-28.05
Nicaragua	0.75	0.67	0.65	-0.09
Panama	0.15	-0.11	0.15	-0.20
El Salvador	-0.98	-0.02	-0.82	-0.38
Trinidad and Tobago	0.60	2.89	0.25	2.23
<i>B&R South America</i>				
Argentina	-0.26	-3.00	-0.15	-2.23
Bolivia	0.65	0.24	0.51	1.57
Chile	-0.05	-0.31	0.06	-0.07
Ecuador	0.29	1.47	0.31	-0.87
Guyana	0.75	-0.03	0.76	-0.78
Peru	0.26	0.23	0.30	-0.15
Suriname	0.62	-0.09	0.12	1.30
Uruguay	-0.04	1.40	-0.02	-0.01
Venezuela	-	-	-	-
<i>B&R Oceania</i>				
Fiji	0.24	7.37	-0.49	10.64
New Zealand	-0.06	-0.19	-0.44	-0.13
Papua New Guinea	-0.80	6.60	-0.58	4.00
Samoa	0.73	2.44	-2.49	0.40
Vanuatu	0.62	0.33	-0.27	-0.57

Table S4 Decoupling decomposition of production-based CH₄ emissions of the countries along the Belt and Road.

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	207.13	0.19	209.76	40.85
Russia	-3342.47	0.19	3949.48	-149.89
South Korea	-449.13	0.01	390.72	73.67
<i>B&R Central Asia</i>				
Kazakhstan	-92.77	0.35	686.90	243.55
Kyrgyzstan	-46.02	0.02	78.71	18.32
Tajikistan	10.03	0.05	74.25	30.55
Turkmenistan	-1779.12	-0.27	973.91	164.82
Uzbekistan	-1482.25	0.02	1248.87	277.78
<i>B&R South Asia</i>				
Afghanistan	-2199.40	0.08	328.96	126.43
Bangladesh	-1353.18	0.37	1868.31	376.14
Maldives	-0.55	0.00	1.19	0.99
Nepal	-257.42	0.06	332.71	65.02
Pakistan	-265.23	0.81	993.21	1210.78
Sri Lanka	-233.65	0.02	226.96	47.62
<i>B&R Southeast Asia</i>				
Brunei	68.82	0.03	-25.28	28.61
Cambodia	-317.45	0.07	364.60	121.72
Indonesia	-1697.26	1.17	3423.39	1063.34
Laos	-120.87	0.04	171.36	44.34
Malaysia	-547.69	0.03	260.94	353.45
Myanmar	-2405.27	0.25	2809.80	184.14
Philippines	-399.09	0.23	531.44	407.91
Singapore	-47.83	0.00	10.20	44.26
Thailand	-37.72	0.43	782.95	285.36
Viet Nam	-1501.33	0.29	1834.72	353.27
<i>B&R West Asia and Middle East</i>				
Armenia	-39.40	0.00	34.44	-4.88
Azerbaijan	-410.15	0.21	823.13	81.57
Bahrain	-117.95	0.09	-58.77	392.06
Egypt	-1005.55	0.18	977.85	445.79
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-114.75	-0.02	75.32	-7.89
Iran	-1038.28	0.34	1097.15	762.89
Iraq	-155.55	0.36	717.73	293.17
Kuwait	-579.98	-0.16	-332.92	524.54
Lebanon	-46.36	0.01	47.56	13.62

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
Oman	-731.78	-0.09	364.58	155.59
Qatar	-980.37	0.52	109.24	2109.29
Saudi Arabia	-288.08	0.12	-472.65	1057.50
Syria	-366.59	-0.01	76.55	275.07
Turkey	646.62	0.44	149.31	255.00
UAE	-158.12	0.05	-1453.99	1740.46
Yemen	76.89	0.12	26.25	171.73
<i>B&R Central and Eastern Europe</i>				
Albania	-68.61	-0.01	50.38	-5.72
Belarus	-171.45	0.06	337.92	-19.13
Bosnia and Herzegovina	-5.75	0.01	53.67	-15.63
Bulgaria	-157.53	-0.01	144.39	-22.28
Croatia	26.44	0.02	16.90	-0.43
Cyprus	-5.35	0.00	2.44	3.97
Czech Republic	-146.95	-0.01	88.81	26.35
Estonia	25.23	0.01	-6.64	-3.39
Hungary	-58.14	-0.03	-8.49	-5.22
Latvia	1.68	0.00	12.35	-8.38
Lithuania	-16.20	0.00	33.37	-18.00
Moldova	-37.08	-0.01	17.83	-1.51
Poland	-1550.43	-0.18	1111.65	-2.05
Romania	-323.70	0.01	423.86	-86.07
Serbia and Montenegro	-94.17	0.00	104.95	-9.78
Slovakia	-95.58	0.00	98.69	1.39
Slovenia	-33.43	0.00	19.60	6.34
TFYR Macedonia	-26.60	0.00	20.09	0.87
Ukraine	-358.73	-0.13	176.32	-122.28
<i>B&R Western Europe</i>				
Austria	-68.73	-0.01	28.99	12.35
Greece	-88.34	-0.02	33.66	12.56
Italy	-30.40	-0.07	-202.90	77.04
Luxembourg	-2.69	0.00	1.55	3.22
Malta	1.74	0.00	1.06	0.29
Portugal	-52.86	-0.02	5.14	5.14
<i>B&R North Africa</i>				
Algeria	-837.94	-0.12	145.63	396.88
Libya	-590.40	-0.15	-26.51	254.39
Morocco	-227.82	0.06	267.58	92.41
Tunisia	-55.24	0.04	123.88	30.88
<i>B&R Sub-Saharan Africa</i>				
Angola	-1819.30	-0.24	735.19	513.82
Benin	-8.88	0.02	17.26	41.37

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
Botswana	21.70	0.01	-20.47	25.71
Burkina Faso	-76.70	0.06	74.19	134.70
Burundi	8.68	0.02	1.58	35.90
Cameroon	-251.82	-0.02	32.52	169.54
Cape Verde	-2.90	0.00	3.19	0.64
Central African Republic	-20.53	0.03	49.09	35.15
Chad	186.88	0.18	-65.26	314.71
Congo	-203.42	0.00	35.37	163.24
Cote d'Ivoire	-64.54	0.01	28.18	70.05
Djibouti	-25.72	0.00	21.86	6.04
DR Congo	-183.12	0.07	127.22	222.47
Eritrea	32.22	0.01	-44.42	25.99
Ethiopia	-984.80	0.54	1633.95	648.93
Gabon	-341.42	-0.14	-150.70	147.66
Gambia	10.37	0.01	2.14	9.95
Ghana	-14.92	0.07	103.52	78.80
Guinea	50.23	0.06	11.43	70.04
Kenya	606.11	0.50	164.18	431.79
Lesotho	-18.10	0.00	14.13	2.09
Liberia	-11.10	0.01	14.44	23.32
Madagascar	-96.95	0.05	25.12	184.65
Malawi	-40.70	0.03	66.98	43.20
Mali	-32.29	0.08	54.61	170.73
Mauritania	-66.10	0.00	24.66	50.27
Mozambique	-287.23	-0.03	145.15	80.73
Namibia	-121.15	-0.02	40.21	21.48
Niger	-51.60	0.08	45.74	184.69
Nigeria	-7644.43	-1.20	2831.23	1959.27
Rwanda	-42.66	0.02	57.67	27.81
Sao Tome and Principe	-0.51	0.00	0.50	0.42
Senegal	40.40	0.05	5.98	70.00
Seychelles	-0.29	0.00	0.31	0.23
Sierra Leone	-44.40	0.01	30.77	27.89
Somalia	-831.88	-0.03	560.93	195.49
South Africa	-498.21	0.13	527.30	284.57
Sudan	-513.91	0.11	116.66	650.99
Tanzania	-357.54	0.12	342.48	292.49
Togo	6.92	0.02	-1.91	33.20
Uganda	-3.00	0.22	343.79	186.32
Zambia	-133.31	0.04	124.21	98.36
Zimbabwe	182.36	0.01	-184.88	35.58

B&R North America

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
Antigua	-0.65	0.00	0.16	0.36
Barbados	-1.78	0.00	0.31	0.27
Costa Rica	-31.49	0.01	45.54	19.29
Cuba	-114.05	0.06	261.50	3.65
Dominican Republic	-11.98	0.06	112.55	38.82
Jamaica	-20.14	-0.01	-2.51	1.58
Nicaragua	-19.26	0.01	20.56	33.83
Panama	-88.12	0.01	80.38	25.97
El Salvador	-38.41	-0.01	17.15	2.91
Trinidad and Tobago	59.63	0.11	181.29	30.94
<i>B&R South America</i>				
Argentina	-2300.34	-0.30	1139.67	452.66
Bolivia	-164.95	0.06	198.15	119.78
Chile	-224.55	0.02	192.15	80.49
Ecuador	-162.27	0.03	116.50	124.64
Guyana	-9.49	0.00	21.91	-1.34
Peru	-480.01	0.02	464.17	62.96
Suriname	0.31	0.01	8.69	2.97
Uruguay	-301.95	0.06	431.48	16.62
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	-0.26	0.00	-1.90	2.39
New Zealand	-141.47	0.00	13.39	119.27
Papua New Guinea	-118.38	-0.03	14.21	26.64
Samoa	-0.93	0.00	0.39	0.30
Vanuatu	-2.19	0.00	2.89	2.86

(Table S4 Continued)

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	-229.97	0.09	549.76	93.01
Russia	-1661.04	0.60	4254.80	155.49
South Korea	-374.44	0.03	440.24	73.61
<i>B&R Central Asia</i>				
Kazakhstan	-678.90	0.10	891.66	267.03
Kyrgyzstan	-3.30	0.02	47.65	30.31
Tajikistan	-48.97	0.02	98.74	43.95
Turkmenistan	-91.91	0.27	1097.06	217.03
Uzbekistan	-817.73	0.13	997.06	426.99
<i>B&R South Asia</i>				
Afghanistan	-255.14	0.03	216.36	178.03

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Bangladesh	-1997.52	0.08	1893.16	486.06
Maldives	-0.45	0.00	0.95	1.31
Nepal	-336.02	0.01	360.28	31.74
Pakistan	-414.07	0.30	579.14	1206.31
Sri Lanka	-196.47	0.04	323.23	40.09
<i>B&R Southeast Asia</i>				
Brunei	-70.84	-0.01	-1.58	25.18
Cambodia	-455.39	0.01	410.01	113.12
Indonesia	-1792.85	0.82	4351.62	1182.24
Laos	-175.75	0.02	203.38	45.98
Malaysia	-951.37	0.00	656.83	275.75
Myanmar	-2229.35	-0.02	1895.92	234.15
Philippines	-1197.07	0.05	996.54	409.88
Singapore	1.53	0.02	68.86	26.37
Thailand	-1333.85	0.11	1567.82	265.76
Viet Nam	-1932.75	0.06	1787.23	404.58
<i>B&R West Asia and Middle East</i>				
Armenia	-14.75	0.00	34.37	-3.86
Azerbaijan	-130.94	0.02	120.99	80.36
Bahrain	89.95	0.08	146.54	117.45
Egypt	-945.14	-0.07	133.66	508.10
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-39.37	0.01	87.07	-8.78
Iran	-589.24	-0.04	-343.71	738.20
Iraq	-285.90	0.44	1235.63	1082.43
Kuwait	129.91	0.10	-291.51	634.04
Lebanon	16.86	0.01	2.74	33.61
Oman	-54.17	0.08	-380.18	796.73
Qatar	77.43	0.45	837.43	1151.03
Saudi Arabia	-511.00	0.28	1020.80	760.44
Syria	121.64	-0.13	-710.88	-21.04
Turkey	-524.60	0.35	1736.98	370.70
UAE	113.37	0.12	165.35	283.62
Yemen	75.65	0.02	-173.57	188.13
<i>B&R Central and Eastern Europe</i>				
Albania	-5.99	0.00	18.96	-2.18
Belarus	-81.99	0.03	206.24	-8.31
Bosnia and Herzegovina	-5.83	0.00	31.43	-21.28
Bulgaria	-91.40	-0.01	45.93	-17.92
Croatia	-15.58	-0.01	-11.19	-4.39
Cyprus	20.99	0.00	-8.42	3.23
Czech Republic	-77.06	-0.01	29.99	7.61

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Estonia	9.88	0.01	38.98	-3.17
Hungary	-75.21	-0.01	35.82	-9.82
Latvia	-3.38	0.00	25.57	-12.23
Lithuania	-59.56	0.00	77.77	-24.30
Moldova	-15.07	0.00	38.05	-0.36
Poland	-456.01	0.02	574.22	-16.01
Romania	-175.19	-0.03	82.49	-34.75
Serbia and Montenegro	11.09	0.01	48.98	-13.65
Slovakia	-108.06	-0.01	55.56	2.63
Slovenia	-23.52	-0.01	-7.75	3.06
TFYR Macedonia	-6.46	0.00	9.47	0.83
Ukraine	-220.08	0.06	581.29	-66.64
<i>B&R Western Europe</i>				
Austria	-41.05	0.00	33.11	14.21
Greece	163.08	-0.03	-268.92	-13.85
Italy	-177.02	-0.06	-166.45	72.35
Luxembourg	-5.24	0.00	0.35	4.23
Malta	-6.96	0.00	1.53	0.41
Portugal	-24.53	-0.01	-31.25	-8.24
<i>B&R North Africa</i>				
Algeria	-382.90	0.08	293.89	466.03
Libya	-306.31	-0.18	-384.69	-142.87
Morocco	-89.40	0.05	207.17	105.27
Tunisia	-113.67	-0.01	23.11	39.72
<i>B&R Sub-Saharan Africa</i>				
Angola	-371.56	0.07	196.50	510.90
Benin	27.87	0.02	21.06	49.34
Botswana	-101.30	0.00	62.05	26.16
Burkina Faso	-193.19	0.03	181.46	149.97
Burundi	3.64	0.01	7.51	40.92
Cameroon	-135.34	0.02	65.89	174.59
Cape Verde	-1.18	0.00	0.40	0.67
Central African Republic	211.41	0.01	-181.23	25.05
Chad	-157.62	0.13	357.85	386.89
Congo	-290.50	-0.02	83.56	134.21
Cote d'Ivoire	9.80	0.04	95.07	76.23
Djibouti	-20.83	0.00	18.59	5.83
DR Congo	282.03	0.20	341.46	301.25
Eritrea	-47.35	0.00	44.14	21.37
Ethiopia	-2088.10	0.14	1986.81	756.91
Gabon	-288.69	-0.01	101.65	138.36
Gambia	-5.33	0.00	-6.59	11.38

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Ghana	-78.10	0.06	264.03	96.48
Guinea	125.70	0.07	97.64	96.23
Kenya	-792.25	0.02	455.52	450.23
Lesotho	-24.41	0.00	18.64	4.11
Liberia	-22.74	0.01	26.94	19.57
Madagascar	-137.63	0.00	-59.44	180.61
Malawi	-4.68	0.02	32.70	51.59
Mali	107.36	0.06	-38.81	187.56
Mauritania	-22.85	0.01	17.52	65.12
Mozambique	326.09	0.13	158.39	119.97
Namibia	-65.64	0.00	58.11	25.06
Niger	-203.03	0.04	153.14	216.93
Nigeria	-2517.63	0.34	2184.36	1911.17
Rwanda	-64.99	0.00	51.09	29.02
Sao Tome and Principe	-0.12	0.00	0.14	0.40
Senegal	-19.82	0.01	0.75	82.03
Seychelles	-0.55	0.00	0.69	0.14
Sierra Leone	-85.82	0.01	113.78	34.82
Somalia	-545.30	0.02	461.08	156.75
South Africa	-577.40	0.04	397.42	353.29
Sudan	975.74	0.00	-1522.75	537.66
Tanzania	-180.43	0.13	409.74	355.02
Togo	-16.46	0.01	43.24	35.89
Uganda	-209.05	0.05	201.24	229.61
Zambia	-79.89	0.03	113.93	109.19
Zimbabwe	-415.32	0.03	462.98	69.99
<i>B&R North America</i>				
Antigua	-0.94	0.00	-0.72	0.26
Barbados	0.98	0.00	-0.95	0.18
Costa Rica	-42.19	0.00	44.35	18.24
Cuba	-134.65	0.00	123.97	4.02
Dominican Republic	-106.17	0.01	114.27	43.85
Jamaica	1.94	0.00	-1.44	1.57
Nicaragua	-24.90	0.03	106.21	39.74
Panama	-95.58	0.01	94.38	26.54
El Salvador	-75.47	-0.01	27.82	4.60
Trinidad and Tobago	-221.43	0.00	158.80	40.75
<i>B&R South America</i>				
Argentina	-2188.61	-0.09	1399.03	389.73
Bolivia	-46.34	0.08	277.83	131.82
Chile	-504.72	-0.02	340.16	78.78
Ecuador	-277.97	0.03	288.35	124.41

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Guyana	0.43	0.01	25.18	-0.70
Peru	-272.53	0.07	504.63	78.91
Suriname	-8.81	0.00	8.81	3.21
Uruguay	-608.96	-0.04	402.93	22.80
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	-7.21	0.00	8.37	1.08
New Zealand	-271.16	0.00	161.53	94.79
Papua New Guinea	-49.44	0.00	12.99	19.25
Samoa	0.59	0.00	0.34	0.45
Vanuatu	-0.49	0.00	-1.18	3.05

(Table S4 Continued)

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	489.78	0.01	172.60	172.52
Russia	1555.66	0.03	18.80	227.75
South Korea	-281.60	0.00	344.30	62.47
<i>B&R Central Asia</i>				
Kazakhstan	-428.72	0.00	234.22	284.71
Kyrgyzstan	-10.03	0.00	49.86	46.66
Tajikistan	-36.17	0.00	103.25	57.53
Turkmenistan	-1049.68	0.00	795.50	264.30
Uzbekistan	-967.55	0.01	920.89	375.03
<i>B&R South Asia</i>				
Afghanistan	-124.27	0.00	-43.19	162.46
Bangladesh	-2182.51	0.01	2140.10	511.67
Maldives	-1.15	0.00	0.91	1.84
Nepal	-364.35	0.00	399.77	72.67
Pakistan	-1643.31	0.03	2338.21	898.46
Sri Lanka	-511.17	0.00	245.57	21.89
<i>B&R Southeast Asia</i>				
Brunei	-7.45	0.00	-37.22	19.24
Cambodia	-517.01	0.00	434.22	107.86
Indonesia	-3244.40	0.03	4041.51	1155.34
Laos	-148.77	0.00	193.24	51.41
Malaysia	-743.19	0.00	633.02	252.38
Myanmar	-1280.12	0.01	1714.53	236.75
Philippines	-1203.40	0.01	1172.93	419.02
Singapore	-11.18	0.00	44.42	15.77
Thailand	-2147.42	-0.02	975.18	189.73

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
Viet Nam	-2798.75	-0.01	2076.97	384.46
<i>B&R West Asia and Middle East</i>				
Armenia	-22.51	0.00	30.09	-3.27
Azerbaijan	-21.43	0.00	-59.09	72.75
Bahrain	-261.95	0.00	0.55	278.23
Egypt	-845.36	0.00	387.31	485.61
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-85.32	0.00	50.41	0.96
Iran	1120.95	0.06	1086.36	1123.96
Iraq	1828.80	0.06	460.39	1045.83
Kuwait	28.65	0.00	-347.06	324.62
Lebanon	20.66	0.00	-5.66	21.22
Oman	-128.84	0.00	-153.51	445.85
Qatar	-652.03	0.00	-1046.03	1730.90
Saudi Arabia	-206.14	0.01	218.54	710.95
Syria	38.87	0.00	-100.40	-123.95
Turkey	-984.39	0.01	1247.52	417.68
UAE	-463.02	0.00	460.19	123.45
Yemen	-92.41	-0.01	-753.42	137.25
<i>B&R Central and Eastern Europe</i>				
Albania	-18.74	0.00	23.77	-1.52
Belarus	69.09	0.00	-32.93	2.27
Bosnia and Herzegovina	39.47	0.00	58.28	-17.47
Bulgaria	-35.84	0.00	91.04	-19.04
Croatia	-23.26	0.00	44.47	-11.56
Cyprus	-4.93	0.00	7.61	2.68
Czech Republic	-212.53	0.00	155.53	8.28
Estonia	-48.54	0.00	37.02	-0.13
Hungary	-161.92	0.00	106.23	-7.46
Latvia	-23.13	0.00	29.97	-7.18
Lithuania	-56.47	0.00	58.61	-15.75
Moldova	-17.89	0.00	33.58	-7.39
Poland	-1145.73	0.00	869.16	-9.26
Romania	-273.89	0.00	354.47	-35.66
Serbia and Montenegro	-741.13	0.00	2693.21	-1816.44
Slovakia	-55.21	0.00	60.82	2.40
Slovenia	-40.06	0.00	36.59	0.92
TFYR Macedonia	-13.95	0.00	13.99	0.66
Ukraine	-533.55	-0.02	-716.22	-71.02
<i>B&R Western Europe</i>				
Austria	-78.83	0.00	18.97	31.81
Greece	-46.83	0.00	28.15	-19.39

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
Italy	-332.63	0.00	114.11	17.83
Luxembourg	-5.12	0.00	0.82	4.47
Malta	-2.22	0.00	2.26	1.03
Portugal	-12.70	0.00	73.68	-11.70
<i>B&R North Africa</i>				
Algeria	-135.13	0.01	255.21	522.23
Libya	-101.42	0.00	-128.84	121.12
Morocco	-98.65	0.00	160.57	107.77
Tunisia	-120.45	0.00	23.07	35.11
<i>B&R Sub-Saharan Africa</i>				
Angola	-95.93	0.00	-413.99	517.49
Benin	-38.02	0.00	24.56	58.37
Botswana	-109.60	0.00	10.14	22.78
Burkina Faso	-127.89	0.00	113.87	164.49
Burundi	62.54	0.00	-30.45	30.69
Cameroon	-169.19	0.00	116.58	200.54
Cape Verde	-1.25	0.00	0.84	0.66
Central African Republic	-31.50	0.00	51.07	21.48
Chad	824.23	0.01	-462.50	459.34
Congo	207.87	0.00	-191.35	104.20
Cote d'Ivoire	-240.85	0.00	208.62	105.39
Djibouti	-14.75	0.00	16.06	5.62
DR Congo	-105.77	0.01	241.88	414.42
Eritrea	-63.57	0.00	65.93	10.10
Ethiopia	-2039.49	0.01	2007.03	806.77
Gabon	-133.02	0.00	-11.52	111.64
Gambia	-1.53	0.00	-2.10	10.88
Ghana	67.03	0.00	84.47	117.80
Guinea	-144.86	0.00	214.98	126.73
Kenya	-590.06	0.00	393.04	397.74
Lesotho	0.13	0.00	0.76	6.02
Liberia	24.36	0.00	-11.74	14.53
Madagascar	-208.16	0.00	61.46	169.89
Malawi	13.11	0.00	19.73	59.02
Mali	-84.39	0.01	199.82	231.84
Mauritania	-45.62	0.00	37.45	63.87
Mozambique	-74.27	0.00	137.85	180.97
Namibia	15.72	0.00	8.90	29.95
Niger	-69.32	0.00	97.73	253.83
Nigeria	-928.38	0.01	-424.81	1889.33
Rwanda	-46.63	0.00	44.99	30.18

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
Sao Tome and Principe	-0.13	0.00	0.44	-27.83
Senegal	-124.98	0.00	121.41	-1178.25
Seychelles	-0.34	0.00	27.81	-36.23
Sierra Leone	58.58	0.00	-68.32	36.22
Somalia	-522.27	0.00	310.66	258.16
South Africa	-347.31	0.00	-33.21	347.44
Sudan	-463.77	0.00	-103.99	756.60
Tanzania	-597.08	0.01	441.69	476.74
Togo	-43.32	0.00	34.55	38.90
Uganda	-89.86	0.01	110.02	289.45
Zambia	-97.15	0.00	17.35	114.71
Zimbabwe	-152.78	0.00	-0.86	91.01
<i>B&R North America</i>				
Antigua	-0.42	0.00	0.36	0.15
Barbados	-1.46	0.00	0.73	0.14
Costa Rica	-35.76	0.00	44.04	16.37
Cuba	-158.99	0.00	86.58	1.50
Dominican Republic	-166.16	0.00	179.68	42.76
Jamaica	-7.20	0.00	2.26	1.06
Nicaragua	-97.16	0.00	95.93	43.62
Panama	-93.48	0.00	52.48	26.28
El Salvador	-16.92	0.00	21.31	3.67
Trinidad and Tobago	-84.39	0.00	-165.75	34.86
<i>B&R South America</i>				
Argentina	453.30	0.01	-368.81	457.38
Bolivia	-370.41	0.00	264.08	136.26
Chile	-242.88	0.00	41.93	91.05
Ecuador	-234.23	0.00	-20.97	116.05
Guyana	-11.45	0.00	11.62	3.18
Peru	-251.73	0.00	166.92	124.15
Suriname	5.34	0.00	-8.17	3.10
Uruguay	-0.11	0.00	118.04	24.74
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	-39.22	0.00	11.47	0.41
New Zealand	-493.38	0.00	192.61	235.41
Papua New Guinea	105.06	0.00	42.17	23.65
Samoa	-0.72	0.00	1.39	-77.96
Vanuatu	-4.12	0.00	1.49	3.20

(Table S4 Continued)

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	117.48	0.04	54.88	208.99
Russia	1205.10	0.37	2869.20	-91.36
South Korea	-119.75	0.02	279.48	26.46
<i>B&R Central Asia</i>				
Kazakhstan	-327.34	0.02	250.67	266.33
Kyrgyzstan	56.19	0.01	-18.44	59.67
Tajikistan	-121.30	0.01	137.22	64.09
Turkmenistan	-726.67	-0.02	252.28	218.83
Uzbekistan	-1180.36	0.00	738.95	422.75
<i>B&R South Asia</i>				
Afghanistan	400.84	0.01	-447.89	162.94
Bangladesh	-1885.29	0.08	2232.34	505.29
Maldives	0.63	0.00	-0.31	1.26
Nepal	-385.89	0.00	252.37	164.62
Pakistan	-362.83	0.21	1285.93	1277.99
Sri Lanka	177.49	0.02	-26.69	36.21
<i>B&R Southeast Asia</i>				
Brunei	-141.62	-0.01	-0.28	12.23
Cambodia	-272.29	0.00	185.04	94.34
Indonesia	7346.49	1.04	2648.78	1130.81
Laos	-119.04	0.00	79.10	55.47
Malaysia	-545.85	-0.02	75.63	204.49
Myanmar	1227.66	0.04	-1012.92	227.38
Philippines	-560.03	-0.01	73.42	407.97
Singapore	-15.72	0.00	54.46	-12.77
Thailand	-376.96	-0.02	44.07	93.66
Viet Nam	-1498.95	0.03	1512.59	337.75
<i>B&R West Asia and Middle East</i>				
Armenia	-40.93	0.00	23.03	-3.91
Azerbaijan	-264.66	-0.02	32.87	42.65
Bahrain	-354.74	-0.03	29.71	7.84
Egypt	-807.40	0.02	587.35	406.38
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-72.33	0.00	40.57	-1.62
Iran	612.39	0.10	-183.06	690.77
Iraq	1057.89	0.06	-1470.76	1090.25
Kuwait	-109.24	-0.02	-231.87	74.78
Lebanon	147.60	0.00	-100.49	-28.12
Oman	37.37	0.00	5.94	-12.56
Qatar	-1375.02	-0.13	41.22	-46.43
Saudi Arabia	266.45	0.05	-153.76	464.03

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
Syria	-229.18	-0.02	-63.68	93.43
Turkey	-350.68	0.10	1028.34	406.65
UAE	-51.79	0.00	-57.85	113.97
Yemen	197.44	0.01	-187.75	94.63
<i>B&R Central and Eastern Europe</i>				
Albania	-55.86	0.00	24.96	-4.06
Belarus	-109.96	0.00	108.66	-22.82
Bosnia and Herzegovina	-12.19	0.00	63.50	-20.37
Bulgaria	-101.96	0.00	92.72	-20.59
Croatia	-115.44	-0.01	53.67	-20.35
Cyprus	-8.26	0.00	11.77	2.39
Czech Republic	-83.26	0.00	50.41	-8.78
Estonia	-46.17	0.00	35.51	2.69
Hungary	10.52	0.01	92.77	-5.72
Latvia	-26.90	0.00	20.41	-5.89
Lithuania	-79.52	0.00	51.17	-3.23
Moldova	-35.38	0.00	35.14	-11.73
Poland	-1011.78	-0.02	786.77	-30.74
Romania	-14.05	0.02	264.48	-46.04
Serbia and Montenegro	-98.73	0.00	0.00	-18.30
Slovakia	-51.77	0.00	38.03	0.74
Slovenia	-32.74	0.00	27.53	5.85
TFYR Macedonia	-15.93	0.00	7.82	-0.57
Ukraine	-728.37	-0.05	335.98	-90.83
<i>B&R Western Europe</i>				
Austria	-46.63	0.00	-5.48	14.83
Greece	-77.24	-0.01	33.50	-16.54
Italy	-256.69	-0.02	77.58	-78.04
Luxembourg	-7.58	0.00	1.41	3.30
Malta	-1.35	0.00	0.81	1.21
Portugal	11.61	0.00	14.45	4.85
<i>B&R North Africa</i>				
Algeria	-675.12	-0.06	-449.79	469.25
Libya	1022.25	0.07	-391.30	120.05
Morocco	35.48	0.02	43.78	99.82
Tunisia	15.67	0.00	-34.59	28.80
<i>B&R Sub-Saharan Africa</i>				
Angola	-450.41	-0.06	-646.59	431.15
Benin	-66.97	0.01	68.26	62.68
Botswana	-33.60	0.00	4.10	18.15
Burkina Faso	-169.62	0.01	147.60	167.32
Burundi	-35.39	0.00	-17.62	41.40

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
Cameroon	-249.62	-0.01	-0.81	186.44
Cape Verde	1.59	0.00	-1.72	0.60
Central African Republic	-6.08	0.00	-0.98	51.50
Chad	789.45	0.08	-445.55	563.67
Congo	214.91	0.01	-195.63	114.39
Cote d'Ivoire	-252.23	0.00	100.54	106.82
Djibouti	-9.57	0.00	8.55	5.37
DR Congo	-445.97	0.01	161.23	435.37
Eritrea	-65.23	0.00	55.14	22.19
Ethiopia	-1541.13	0.05	1251.03	859.62
Gabon	-79.91	0.00	-42.19	81.70
Gambia	-13.22	0.00	7.59	10.48
Ghana	1218.78	0.15	199.21	173.63
Guinea	-83.43	0.02	148.12	145.16
Kenya	156.44	0.10	486.75	405.34
Lesotho	9.94	0.00	-18.60	6.70
Liberia	21.94	0.00	-15.40	16.42
Madagascar	217.41	0.03	-78.22	179.83
Malawi	41.33	0.01	15.97	68.84
Mali	66.57	0.03	-33.38	270.88
Mauritania	-15.64	0.00	-14.62	67.60
Mozambique	-150.22	0.00	-74.44	181.81
Namibia	30.69	0.00	-53.04	31.11
Niger	-10.42	0.03	51.34	294.74
Nigeria	-1200.42	-0.01	-736.44	1834.28
Rwanda	-53.60	0.00	49.41	32.63
Sao Tome and Principe	-0.16	0.00	0.22	0.41
Senegal	-87.45	0.01	68.04	97.95
Seychelles	-0.01	0.00	0.12	0.19
Sierra Leone	-50.29	0.00	5.06	35.11
Somalia	-110.79	0.00	-119.99	249.69
South Africa	-634.18	-0.06	-296.69	313.25
Sudan	1040.47	0.03	-1422.35	744.73
Tanzania	-235.40	0.04	196.82	484.74
Togo	-29.05	0.00	33.47	41.03
Uganda	-193.48	0.03	137.22	339.15
Zambia	-59.00	0.00	-30.12	110.30
Zimbabwe	104.37	0.01	-106.09	87.99
<i>B&R North America</i>				
Antigua	0.05	0.00	-0.28	0.11
Barbados	3.29	0.00	-2.57	0.12

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
Costa Rica	-6.31	0.00	21.48	13.33
Cuba	108.49	0.00	-84.78	-7.92
Dominican Republic	-90.71	0.01	115.98	41.90
Jamaica	-3.86	0.00	-3.05	0.54
Nicaragua	54.35	0.01	-31.39	45.29
Panama	-4.53	0.00	-14.69	22.55
El Salvador	-29.17	0.00	18.11	2.13
Trinidad and Tobago	-464.37	-0.05	-129.33	29.06
<i>B&R South America</i>				
Argentina	1271.44	0.07	-1002.20	445.00
Bolivia	24.36	0.01	-52.96	122.93
Chile	-171.21	0.00	64.08	109.86
Ecuador	258.56	0.02	-177.67	125.34
Guyana	-103.24	0.00	87.64	7.87
Peru	-100.82	0.01	18.25	161.62
Suriname	11.52	0.00	-13.81	3.23
Uruguay	54.08	0.00	-11.73	2.54
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	21.36	0.00	-12.61	0.36
New Zealand	-382.50	-0.01	121.56	171.27
Papua New Guinea	171.28	0.02	-35.62	36.06
Samoa	2.17	0.00	-1.85	0.81
Vanuatu	0.77	0.00	-2.70	3.23

Table S5 Decoupling decomposition of consumption-based CH₄ emissions of the countries along the Belt and Road.

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	212.92	0.17	160.37	31.23
Russia	-2708.19	0.30	3568.64	-135.43
South Korea	-1424.75	-0.25	705.85	133.14
<i>B&R Central Asia</i>				
Kazakhstan	-5.17	0.33	577.94	204.90
Kyrgyzstan	-76.99	0.01	76.44	17.80
Tajikistan	18.83	0.05	67.82	27.90
Turkmenistan	-1629.29	-0.24	897.73	151.93
Uzbekistan	-1232.77	0.07	1141.00	253.77
<i>B&R South Asia</i>				
Afghanistan	-2223.29	0.07	332.68	127.86
Bangladesh	-1305.94	0.36	1799.29	362.24
Maldives	-12.12	0.00	3.71	3.11
Nepal	-207.38	0.07	305.09	59.62
Pakistan	-316.10	0.73	927.20	1130.35
Sri Lanka	-183.59	0.03	215.73	45.26
<i>B&R Southeast Asia</i>				
Brunei	47.16	0.02	-17.41	19.71
Cambodia	-286.39	0.07	346.57	115.70
Indonesia	-696.86	1.31	2913.76	904.95
Laos	-94.34	0.04	150.44	38.93
Malaysia	-355.23	0.07	225.56	305.46
Myanmar	-1812.86	0.36	2514.12	164.75
Philippines	-504.97	0.12	441.19	338.69
Singapore	-428.30	0.00	80.20	347.99
Thailand	-434.28	0.22	703.61	256.51
Viet Nam	-1098.81	0.35	1623.42	312.57
<i>B&R West Asia and Middle East</i>				
Armenia	-44.22	-0.01	35.68	-5.06
Azerbaijan	-286.59	0.21	718.62	71.21
Bahrain	-130.96	0.06	-48.37	322.61
Egypt	-957.92	0.18	955.49	435.59
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-121.29	-0.02	76.23	-7.98
Iran	-769.09	0.41	1029.14	715.53
Iraq	226.94	0.49	661.04	269.94
Kuwait	-333.55	-0.08	-246.59	388.58
Lebanon	-68.82	0.01	64.37	18.43

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
Oman	-459.89	-0.02	291.90	124.55
Qatar	-573.05	0.53	91.00	1755.04
Saudi Arabia	187.67	0.32	-470.02	1052.06
Syria	-293.62	0.01	68.24	245.14
Turkey	409.47	0.36	169.90	290.39
UAE	-7.64	0.13	-1587.03	1899.80
Yemen	134.66	0.13	23.57	154.03
<i>B&R Central and Eastern Europe</i>				
Albania	-80.13	-0.01	54.49	-6.19
Belarus	-5.95	0.00	3.79	-0.21
Bosnia and Herzegovina	-22.03	0.01	54.39	-15.85
Bulgaria	-140.25	-0.01	130.60	-20.16
Croatia	6.19	0.01	19.12	-0.49
Cyprus	-19.93	0.00	4.58	7.45
Czech Republic	-148.34	-0.01	102.90	30.52
Estonia	-4.41	-0.01	-7.47	-3.80
Hungary	-125.29	-0.06	-11.12	-6.82
Latvia	-16.31	0.00	15.49	-10.52
Lithuania	-44.44	-0.01	42.55	-22.96
Moldova	21.18	0.01	2.88	-0.24
Poland	-1467.68	-0.16	1080.71	-1.99
Romania	-365.86	0.00	453.78	-92.15
Serbia and Montenegro	#N/A	#N/A	#N/A	#N/A
Slovakia	-147.45	0.00	147.47	2.07
Slovenia	-59.28	-0.01	20.61	6.67
TFYR Macedonia	-47.85	-0.01	24.56	1.07
Ukraine	-409.48	-0.15	154.04	-106.86
<i>B&R Western Europe</i>				
Austria	-157.06	-0.04	46.38	19.76
Greece	-146.85	-0.03	53.54	19.99
Italy	-521.73	-0.33	-411.82	156.28
Luxembourg	-14.21	0.00	4.91	10.22
Malta	-22.87	-0.01	3.49	0.97
Portugal	-146.13	-0.06	7.20	7.23
<i>B&R North Africa</i>				
Algeria	-50.09	0.14	101.18	275.14
Libya	-256.18	-0.05	-16.45	158.33
Morocco	-160.82	0.07	239.79	82.81
Tunisia	-71.66	0.03	118.53	29.54
<i>B&R Sub-Saharan Africa</i>				
Angola	-994.93	0.00	587.28	410.32
Benin	-19.65	0.02	17.76	42.58

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
Botswana	27.21	0.01	-23.83	29.94
Burkina Faso	-87.36	0.05	73.83	134.05
Burundi	-3.84	0.01	1.60	36.60
Cameroon	-208.03	-0.01	29.85	155.55
Cape Verde	-15.87	0.00	6.09	1.22
Central African Republic	-23.43	0.02	46.89	33.58
Chad	326.96	0.23	-59.93	289.31
Congo	-106.67	0.02	27.13	125.11
Cote d'Ivoire	-72.90	0.00	24.18	60.14
Djibouti	-36.54	0.00	23.18	6.40
DR Congo	-180.39	0.07	125.05	218.68
Eritrea	17.84	0.00	-44.48	26.02
Ethiopia	-108.11	0.14	314.67	124.96
Gabon	-243.02	-0.10	-116.37	114.03
Gambia	-5.47	0.00	2.26	10.55
Ghana	-30.83	0.06	98.20	74.75
Guinea	61.49	0.06	9.84	60.28
Kenya	556.40	0.47	154.68	406.83
Lesotho	-30.41	-0.01	15.78	2.34
Liberia	3.19	0.01	9.79	15.80
Madagascar	17.62	0.08	22.19	162.75
Malawi	-47.39	0.03	66.87	43.13
Mali	-43.22	0.08	53.91	168.55
Mauritania	-88.67	-0.01	21.09	43.03
Mozambique	-285.00	-0.03	142.42	79.21
Namibia	-112.59	-0.02	40.21	21.48
Niger	-28.06	0.08	43.58	175.91
Nigeria	-5441.94	-0.60	2376.90	1644.58
Rwanda	-52.98	0.02	62.14	29.97
Sao Tome and Principe	-7.34	0.00	1.13	0.94
Senegal	22.86	0.04	5.86	68.73
Seychelles	-12.67	0.00	1.14	0.85
Sierra Leone	-50.31	0.00	29.39	26.64
Somalia	-836.14	-0.04	548.83	191.27
South Africa	-718.55	0.00	463.93	250.44
Sudan	5158.22	2.11	48.44	258.77
Tanzania	-392.79	0.09	321.46	274.55
Togo	-10.53	0.01	-1.88	32.62
Uganda	-7.31	0.23	357.30	193.64
Zambia	-143.67	0.03	117.57	93.11
Zimbabwe	100.74	-0.01	-144.07	27.72

Country/Region	2005-2009			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R North America</i>				
Antigua	-12.25	0.00	0.40	0.93
Barbados	-13.66	-0.01	0.59	0.52
Costa Rica	-44.85	0.01	46.55	19.72
Cuba	-125.24	0.06	268.63	3.75
Dominican Republic	-15.88	0.06	112.67	38.86
Jamaica	-32.43	-0.01	-3.25	2.05
Nicaragua	-32.60	0.01	19.88	32.72
Panama	-108.99	0.00	86.28	27.88
El Salvador	-48.84	-0.01	19.62	3.32
Trinidad and Tobago	21.77	0.06	99.60	17.00
<i>B&R South America</i>				
Argentina	-1957.97	-0.20	1053.69	418.49
Bolivia	-148.99	0.04	149.77	90.54
Chile	-289.59	0.00	196.70	82.41
Ecuador	-143.56	0.03	106.86	114.33
Guyana	-32.69	0.03	119.48	-7.28
Peru	-474.70	0.02	455.69	61.81
Suriname	-13.85	0.00	9.09	3.11
Uruguay	-314.49	0.05	418.28	16.11
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	-11.54	0.00	-2.06	2.59
New Zealand	-296.39	-0.07	12.05	108.03
Papua New Guinea	-91.23	-0.02	12.52	23.46
Samoa	-10.07	0.00	0.61	0.46
Vanuatu	-10.72	0.00	3.33	3.30

(Table S5 Continued)

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	-181.10	0.07	434.48	73.50
Russia	-842.52	0.70	3914.98	143.07
South Korea	-383.01	0.11	772.66	129.18
<i>B&R Central Asia</i>				
Kazakhstan	-604.15	0.08	755.17	226.16
Kyrgyzstan	-0.24	0.02	44.72	28.44
Tajikistan	-33.19	0.02	92.56	41.20
Turkmenistan	-151.36	0.23	1000.48	197.92
Uzbekistan	-755.10	0.12	924.16	395.77
<i>B&R South Asia</i>				

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Afghanistan	-263.26	0.03	215.80	177.56
Bangladesh	-1925.06	0.08	1822.77	467.99
Maldives	-4.03	0.00	2.26	3.09
Nepal	-291.08	0.02	334.08	29.44
Pakistan	-543.10	0.24	536.25	1117.05
Sri Lanka	-177.28	0.04	314.23	38.98
<i>B&R Southeast Asia</i>				
Brunei	-67.77	-0.01	-1.06	16.79
Cambodia	-442.53	0.01	390.49	107.73
Indonesia	-1744.99	0.66	3763.06	1022.35
Laos	-156.69	0.01	180.05	40.70
Malaysia	-557.71	0.06	601.19	252.36
Myanmar	-2078.99	-0.03	1737.98	214.64
Philippines	-891.65	0.06	819.97	337.25
Singapore	-329.24	0.08	497.16	190.39
Thailand	-785.72	0.19	1408.70	238.78
Viet Nam	-1706.52	0.06	1606.96	363.77
<i>B&R West Asia and Middle East</i>				
Armenia	-18.06	0.00	34.98	-3.93
Azerbaijan	-90.02	0.02	109.95	73.03
Bahrain	78.14	0.06	119.15	95.49
Egypt	-955.47	-0.07	130.51	496.13
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-56.21	0.00	85.15	-8.58
Iran	-1007.25	-0.14	-319.28	685.51
Iraq	-310.42	0.41	1175.54	1029.80
Kuwait	30.05	0.06	-217.90	473.91
Lebanon	10.09	0.01	3.59	44.15
Oman	-138.25	0.04	-307.32	644.00
Qatar	-36.68	0.36	716.62	985.01
Saudi Arabia	-581.32	0.27	1047.17	780.10
Syria	74.91	-0.13	-632.45	-18.72
Turkey	-535.18	0.40	1934.12	412.77
UAE	149.70	0.14	185.99	319.02
Yemen	30.88	0.01	-157.51	170.72
<i>B&R Central and Eastern Europe</i>				
Albania	-7.01	0.00	20.19	-2.33
Belarus	0.97	0.00	2.12	-0.09
Bosnia and Herzegovina	-15.03	0.00	30.51	-20.66
Bulgaria	-127.18	-0.02	40.13	-15.66
Croatia	-29.21	-0.01	-12.13	-4.76
Cyprus	17.70	0.00	-13.93	5.35

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Czech Republic	-123.94	-0.02	34.55	8.77
Estonia	-3.74	0.01	39.92	-3.25
Hungary	-118.23	-0.02	45.17	-12.38
Latvia	-7.26	0.00	30.66	-14.66
Lithuania	-75.99	0.00	96.46	-30.14
Moldova	19.73	0.01	11.88	-0.11
Poland	-416.11	0.03	561.86	-15.66
Romania	-184.42	-0.03	87.95	-37.05
Serbia and Montenegro	#N/A	#N/A	#N/A	#N/A
Slovakia	-102.76	0.00	86.13	4.07
Slovenia	-21.75	-0.01	-7.90	3.12
TFYR Macedonia	-8.13	0.00	11.00	0.97
Ukraine	-48.15	0.09	510.66	-58.54
<i>B&R Western Europe</i>				
Austria	-108.22	-0.01	51.27	22.00
Greece	101.30	-0.07	-408.91	-21.06
Italy	-703.08	-0.19	-320.31	139.18
Luxembourg	-2.09	0.00	1.15	13.80
Malta	-9.50	0.00	4.22	1.13
Portugal	-44.89	-0.02	-42.41	-11.18
<i>B&R North Africa</i>				
Algeria	-284.64	0.06	216.99	344.09
Libya	48.37	-0.07	-266.38	-98.95
Morocco	-100.77	0.04	187.04	95.05
Tunisia	-100.34	-0.01	21.96	37.74
<i>B&R Sub-Saharan Africa</i>				
Angola	-552.60	0.01	163.10	424.21
Benin	24.16	0.02	21.26	49.83
Botswana	-113.25	0.00	72.98	30.77
Burkina Faso	-189.64	0.03	179.85	148.64
Burundi	-0.60	0.01	7.39	40.26
Cameroon	-137.25	0.02	60.68	160.79
Cape Verde	-3.05	0.00	0.62	1.02
Central African Republic	181.89	0.01	-169.38	23.41
Chad	-217.16	0.11	336.32	363.63
Congo	-267.25	-0.02	64.19	103.12
Cote d'Ivoire	-7.27	0.03	79.78	63.97
Djibouti	-21.03	0.00	18.55	5.82
DR Congo	233.58	0.19	332.27	293.15
Eritrea	-53.89	0.00	42.59	20.62
Ethiopia	-349.77	0.05	408.09	155.46

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Gabon	-158.09	0.01	83.40	113.50
Gambia	-3.64	0.00	-6.42	11.09
Ghana	-60.36	0.06	249.59	91.21
Guinea	83.49	0.05	83.88	82.67
Kenya	-671.90	0.04	432.58	427.54
Lesotho	-24.85	0.00	20.23	4.46
Liberia	-9.85	0.01	19.95	14.49
Madagascar	-153.11	-0.01	-53.81	163.49
Malawi	-23.92	0.01	31.63	49.91
Mali	98.34	0.05	-38.06	183.93
Mauritania	-22.24	0.01	14.40	53.52
Mozambique	316.20	0.13	154.87	117.30
Namibia	-62.99	0.00	59.00	25.44
Niger	-200.78	0.03	146.78	207.92
Nigeria	-1404.68	0.49	1947.75	1703.99
Rwanda	-62.68	0.01	55.05	31.27
Sao Tome and Principe	-0.21	0.00	0.22	0.65
Senegal	-13.58	0.01	0.73	79.85
Seychelles	-0.15	0.00	1.86	0.38
Sierra Leone	-71.49	0.02	109.07	33.38
Somalia	-528.66	0.02	448.36	152.42
South Africa	-526.65	0.03	340.54	302.73
Sudan	932.13	-0.01	-1512.19	533.93
Tanzania	-257.71	0.10	374.02	324.09
Togo	-19.35	0.01	41.01	34.04
Uganda	-234.92	0.05	207.92	237.23
Zambia	-100.88	0.02	104.44	100.10
Zimbabwe	-833.38	-0.14	111.74	16.91
<i>B&R North America</i>				
Antigua	-1.08	0.00	-1.35	0.48
Barbados	0.31	0.00	-1.53	0.30
Costa Rica	-26.07	0.01	45.58	18.74
Cuba	-140.45	0.00	126.76	4.11
Dominican Republic	-102.53	0.01	114.36	43.89
Jamaica	2.65	0.00	-1.81	1.97
Nicaragua	-26.19	0.02	101.33	37.92
Panama	-84.94	0.01	101.70	28.59
El Salvador	-71.15	-0.01	32.37	5.36
Trinidad and Tobago	-184.71	-0.02	82.80	21.25
<i>B&R South America</i>				
Argentina	-1789.46	-0.02	1322.29	368.34
Bolivia	-83.06	0.05	204.52	97.05

Country/Region	2009-2013			
	Emission intensity	Industrial structure	Economic level	Population size
Chile	-374.24	0.01	356.17	82.48
Ecuador	-249.69	0.03	265.36	114.49
Guyana	-18.58	0.03	137.28	-3.83
Peru	-218.04	0.08	500.97	78.34
Suriname	-6.48	0.00	8.46	3.08
Uruguay	-558.39	-0.03	391.77	22.17
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	-4.63	0.00	8.63	1.12
New Zealand	-220.59	0.00	142.30	83.50
Papua New Guinea	-34.38	0.00	12.33	18.27
Samoa	0.63	0.00	0.41	0.55
Vanuatu	-0.58	0.00	-1.20	3.11

(Table S5 Continued)

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	194.15	0.01	128.57	128.51
Russia	-552.01	-0.01	16.91	205.21
South Korea	-422.75	0.01	623.04	113.04
<i>B&R Central Asia</i>				
Kazakhstan	-673.65	0.00	189.85	230.79
Kyrgyzstan	-73.33	0.00	44.04	41.21
Tajikistan	-45.36	0.00	97.05	54.08
Turkmenistan	-965.31	0.00	715.01	237.56
Uzbekistan	-1112.12	0.00	833.57	339.47
<i>B&R South Asia</i>				
Afghanistan	-198.61	0.00	-41.63	156.61
Bangladesh	-2290.02	0.00	2038.37	487.35
Maldives	-8.04	0.00	1.76	3.56
Nepal	-224.18	0.00	382.21	69.47
Pakistan	-908.26	0.04	2197.20	844.27
Sri Lanka	-352.47	0.00	257.06	22.92
<i>B&R Southeast Asia</i>				
Brunei	19.95	0.00	-25.05	12.95
Cambodia	-843.00	-0.01	366.58	91.06
Indonesia	-1406.84	0.06	3590.95	1026.53
Laos	-165.70	0.00	166.72	44.35
Malaysia	-657.46	0.00	607.44	242.18
Myanmar	-1161.66	0.01	1568.57	216.59
Philippines	-586.89	0.01	1017.91	363.64

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
Singapore	-347.93	0.00	283.91	100.77
Thailand	-2166.75	-0.02	885.21	172.22
Viet Nam	-4528.56	-0.05	1595.82	295.40
<i>B&R West Asia and Middle East</i>				
Armenia	-34.59	0.00	29.36	-3.19
Azerbaijan	-149.69	0.00	-51.80	63.77
Bahrain	-550.75	-0.01	0.39	199.32
Egypt	-819.49	0.00	377.22	472.96
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-170.25	0.00	40.23	0.76
Iran	-259.43	0.03	943.89	976.59
Iraq	182.14	0.03	399.48	907.53
Kuwait	79.57	0.00	-258.54	241.83
Lebanon	21.33	0.00	-7.25	27.18
Oman	-250.26	0.00	-116.35	337.93
Qatar	-1320.86	-0.01	-812.30	1344.11
Saudi Arabia	-1137.11	0.00	211.07	686.69
Syria	61.33	0.00	-89.32	-110.27
Turkey	-1647.80	0.00	1345.64	450.53
UAE	-584.79	0.00	514.74	138.09
Yemen	59.21	-0.01	-713.56	129.99
<i>B&R Central and Eastern Europe</i>				
Albania	-34.38	0.00	24.38	-1.56
Belarus	70.67	0.00	-0.97	0.07
Bosnia and Herzegovina	3.75	0.00	52.85	-15.84
Bulgaria	-14.80	0.00	77.62	-16.23
Croatia	-68.11	0.00	44.75	-11.64
Cyprus	9.46	0.00	12.52	4.41
Czech Republic	-89.74	0.00	188.48	10.03
Estonia	-60.17	0.00	36.07	-0.12
Hungary	-232.91	0.00	129.65	-9.10
Latvia	-66.15	0.00	32.54	-7.80
Lithuania	-91.56	0.00	70.56	-18.96
Moldova	19.28	0.00	15.02	-3.31
Poland	-1390.68	-0.01	828.71	-8.83
Romania	-233.14	0.00	384.49	-38.68
Serbia and Montenegro	#N/A	#N/A	#N/A	#N/A
Slovakia	-149.97	0.00	94.16	3.72
Slovenia	-30.97	0.00	38.07	0.95
TFYR Macedonia	-17.17	0.00	16.16	0.76
Ukraine	-422.87	-0.02	-642.64	-63.72
<i>B&R Western Europe</i>				

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
Austria	-88.75	0.00	29.24	49.05
Greece	-167.50	0.00	39.44	-27.16
Italy	-547.41	-0.01	215.34	33.65
Luxembourg	77.14	0.00	3.57	19.56
Malta	-7.66	0.00	7.16	3.24
Portugal	-30.88	0.00	98.75	-15.69
<i>B&R North Africa</i>				
Algeria	859.44	0.03	206.89	423.33
Libya	-21.93	0.00	-98.88	92.95
Morocco	-210.17	0.00	139.44	93.59
Tunisia	-136.58	0.00	21.69	33.01
<i>B&R Sub-Saharan Africa</i>				
Angola	-100.96	0.00	-327.93	409.91
Benin	-79.43	0.00	23.60	56.08
Botswana	-179.61	0.00	10.94	24.59
Burkina Faso	-342.68	0.00	103.26	149.17
Burundi	56.01	0.00	-29.51	29.74
Cameroon	-216.25	0.00	104.60	179.93
Cape Verde	-6.01	0.00	1.12	0.88
Central African Republic	-23.85	0.00	47.18	19.85
Chad	567.26	0.01	-416.89	414.03
Congo	138.09	0.00	-141.65	77.14
Cote d'Ivoire	-187.67	0.00	174.78	88.29
Djibouti	-48.23	0.00	11.94	4.18
DR Congo	-524.58	0.00	215.04	368.43
Eritrea	-56.65	0.00	63.21	9.68
Ethiopia	-1223.07	-0.01	273.68	110.02
Gabon	-265.41	0.00	-8.91	86.27
Gambia	-6.20	0.00	-2.01	10.42
Ghana	-71.06	0.00	75.76	105.65
Guinea	-284.62	0.00	166.39	98.09
Kenya	-652.13	0.00	372.78	377.24
Lesotho	-40.55	0.00	0.70	5.58
Liberia	46.78	0.00	-9.80	12.14
Madagascar	-236.11	0.00	54.09	149.53
Malawi	11.35	0.00	18.66	55.82
Mali	-217.01	0.00	187.61	217.67
Mauritania	-33.96	0.00	30.77	52.49
Mozambique	-244.75	0.00	125.86	165.24
Namibia	-40.75	0.00	8.47	28.50
Niger	-155.31	0.00	90.67	235.52

Country/Region	2013-2017			
	Emission intensity	Industrial structure	Economic level	Population size
Nigeria	-1066.03	0.00	-386.36	1718.31
Rwanda	-79.22	0.00	46.75	31.36
Sao Tome and Principe	-1.57	0.00	0.65	0.56
Senegal	-176.41	0.00	114.20	84.83
Seychelles	70.50	0.00	17.03	-85.77
Sierra Leone	30.12	0.00	-64.24	34.06
Somalia	-473.53	0.00	305.78	254.11
South Africa	-295.66	0.00	-28.38	296.95
Sudan	-595.19	0.00	-101.76	740.32
Tanzania	-468.38	0.01	401.50	433.36
Togo	-56.29	0.00	31.84	35.85
Uganda	-274.20	0.00	108.43	285.28
Zambia	-148.21	0.00	14.99	99.11
Zimbabwe	713.09	0.01	-0.20	22.02
<i>B&R North America</i>				
Antigua	-1.13	0.00	0.68	0.28
Barbados	-6.24	0.00	1.06	0.20
Costa Rica	-57.01	0.00	45.12	16.77
Cuba	-207.48	0.00	86.61	1.50
Dominican Republic	-222.34	0.00	173.98	41.40
Jamaica	-16.83	0.00	2.74	1.28
Nicaragua	-167.42	0.00	86.15	39.18
Panama	-94.68	0.00	58.46	29.27
El Salvador	-29.47	0.00	25.05	4.32
Trinidad and Tobago	184.96	0.00	-95.94	20.18
<i>B&R South America</i>				
Argentina	286.65	0.01	-350.94	435.21
Bolivia	-83.44	0.00	203.25	104.87
Chile	-159.54	0.00	46.76	101.52
Ecuador	-257.23	0.00	-19.09	105.66
Guyana	-609.19	-0.01	36.00	9.85
Peru	-405.09	0.00	162.03	120.51
Suriname	-10.71	0.00	-7.09	2.69
Uruguay	-174.82	0.00	110.58	23.18
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	-46.50	0.00	11.44	0.41
New Zealand	-354.63	0.00	173.17	211.65
Papua New Guinea	54.97	0.00	37.62	21.10
Samoa	-1.57	0.00	1.67	0.65
Vanuatu	-8.17	0.00	1.42	3.05

(Table S5 Continued)

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
<i>B&R Northeast Asia</i>				
Mongolia	28.49	0.02	38.21	145.52
Russia	-1487.51	0.08	2399.32	-76.41
South Korea	-664.47	-0.01	491.07	46.50
<i>B&R Central Asia</i>				
Kazakhstan	-470.37	-0.01	189.56	201.43
Kyrgyzstan	54.10	0.01	-15.41	49.86
Tajikistan	-117.76	0.01	127.26	59.44
Turkmenistan	-691.83	-0.03	224.44	194.69
Uzbekistan	-1343.37	-0.03	630.91	360.95
<i>B&R South Asia</i>				
Afghanistan	432.95	0.02	-426.92	155.31
Bangladesh	-2333.23	0.02	2040.82	461.95
Maldives	1.03	0.00	-0.53	2.13
Nepal	-485.73	-0.01	241.80	157.73
Pakistan	-1155.47	0.12	1203.61	1196.26
Sri Lanka	144.89	0.01	-29.44	39.93
<i>B&R Southeast Asia</i>				
Brunei	-97.72	-0.01	-0.20	8.62
Cambodia	-248.39	0.00	135.97	69.33
Indonesia	3936.73	0.68	2318.59	989.95
Laos	-121.96	0.00	65.62	46.02
Malaysia	-585.56	-0.03	72.50	196.05
Myanmar	15847.98	1.33	-1655.84	371.99
Philippines	-741.44	-0.03	65.00	361.30
Singapore	-265.70	0.00	319.44	-74.89
Thailand	-514.80	-0.04	39.09	83.11
Viet Nam	-1112.85	0.01	968.06	216.17
<i>B&R West Asia and Middle East</i>				
Armenia	-37.91	0.00	21.76	-3.70
Azerbaijan	-318.16	-0.02	26.32	34.17
Bahrain	-266.58	-0.02	18.22	4.81
Egypt	-1276.68	-0.03	544.57	376.81
Gaza Strip	0.00	0.00	0.00	0.00
Georgia	-51.36	0.00	26.37	-1.05
Iran	1941.74	0.22	-159.21	601.26
Iraq	-82.39	-0.03	-1118.48	829.04
Kuwait	-335.54	-0.04	-163.28	52.65
Lebanon	1384.50	0.10	-255.55	-71.55
Oman	-186.74	-0.02	4.06	-8.64
Qatar	-1121.68	-0.11	28.68	-32.33

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
Saudi Arabia	-559.65	-0.03	-133.73	403.36
Syria	-261.58	-0.02	-55.11	80.85
Turkey	-805.38	0.06	1044.48	413.05
UAE	-440.20	-0.04	-60.98	120.07
Yemen	111.45	0.00	-182.17	91.81
<i>B&R Central and Eastern Europe</i>				
Albania	-53.89	0.00	24.79	-4.04
Belarus	-1.82	0.00	6.85	-1.44
Bosnia and Herzegovina	-28.32	0.00	53.35	-17.11
Bulgaria	-64.75	0.00	81.64	-18.13
Croatia	-86.46	-0.01	52.93	-20.06
Cyprus	-51.68	0.00	17.74	3.61
Czech Republic	1229.00	0.12	94.56	-16.45
Estonia	-42.18	0.00	33.88	2.56
Hungary	-70.95	0.00	105.26	-6.49
Latvia	-19.07	0.00	20.57	-5.94
Lithuania	-70.27	0.00	61.85	-3.90
Moldova	-39.14	0.00	16.13	-5.39
Poland	-975.74	-0.03	725.08	-28.33
Romania	-63.85	0.02	288.18	-50.16
Serbia and Montenegro	#N/A	#N/A	#N/A	#N/A
Slovakia	-11.43	0.00	59.06	1.15
Slovenia	-39.41	0.00	28.91	6.14
TFYR Macedonia	-12.88	0.00	9.17	-0.67
Ukraine	-508.34	-0.03	310.22	-83.86
<i>B&R Western Europe</i>				
Austria	-145.78	-0.01	-8.32	22.48
Greece	-101.64	-0.01	45.28	-22.36
Italy	-607.45	-0.06	145.83	-146.70
Luxembourg	-40.94	0.00	7.75	18.17
Malta	-9.24	0.00	2.35	3.50
Portugal	-48.74	0.00	18.65	6.26
<i>B&R North Africa</i>				
Algeria	-1054.80	-0.10	-381.73	398.19
Libya	3593.50	0.30	-490.09	150.42
Morocco	-67.79	0.00	35.85	81.78
Tunisia	-39.12	0.00	-30.80	25.64
<i>B&R Sub-Saharan Africa</i>				
Angola	-687.76	-0.08	-474.78	316.56
Benin	-97.45	0.00	60.24	55.32
Botswana	-37.00	0.00	3.94	17.45
Burkina Faso	-166.57	0.01	121.12	137.30

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
Burundi	-40.87	0.00	-16.77	39.41
Cameroon	-255.74	-0.01	-0.71	161.62
Cape Verde	1.95	0.00	-2.05	0.71
Central African Republic	-27.97	0.00	-0.89	46.82
Chad	348.94	0.04	-373.98	473.09
Congo	33.64	0.00	-133.93	78.31
Cote d'Ivoire	-226.59	0.00	84.18	89.43
Djibouti	-8.94	0.00	4.45	2.79
DR Congo	-467.36	0.00	129.82	350.60
Eritrea	-81.04	0.00	51.60	20.77
Ethiopia	-243.15	-0.01	93.87	64.51
Gabon	-107.17	-0.01	-27.83	53.88
Gambia	-18.61	0.00	6.83	9.43
Ghana	795.00	0.10	159.08	138.67
Guinea	-45.41	0.02	105.66	103.55
Kenya	65.62	0.08	452.73	377.01
Lesotho	9.76	0.00	-14.70	5.30
Liberia	9.82	0.00	-13.62	14.52
Madagascar	68.45	0.01	-65.05	149.54
Malawi	13.45	0.01	14.77	63.67
Mali	-63.88	0.01	-29.17	236.57
Mauritania	-65.97	0.00	-11.44	52.88
Mozambique	-200.37	-0.01	-61.90	151.18
Namibia	6.53	0.00	-46.00	26.98
Niger	28.10	0.03	46.79	268.58
Nigeria	-2152.92	-0.11	-643.58	1602.74
Rwanda	-72.94	0.00	47.36	31.28
Sao Tome and Principe	-1.08	0.00	0.28	0.53
Senegal	-108.78	0.00	60.47	87.06
Seychelles	0.04	0.00	0.34	0.56
Sierra Leone	-53.59	0.00	4.53	31.47
Somalia	-206.35	-0.01	-116.16	241.70
South Africa	-363.53	-0.03	-257.70	272.10
Sudan	1414.31	0.07	-1417.18	742.04
Tanzania	-319.78	0.03	178.20	438.92
Togo	-40.88	0.00	29.54	36.22
Uganda	-297.97	0.01	126.45	312.55
Zambia	-78.52	0.00	-24.47	89.62
Zimbabwe	109.06	0.01	-80.74	66.96
<i>B&R North America</i>				
Antigua	-0.85	0.00	-0.49	0.20

Country/Region	2017-2021			
	Emission intensity	Industrial structure	Economic level	Population size
Barbados	2.89	0.00	-3.30	0.15
Costa Rica	-29.64	0.00	20.85	12.94
Cuba	69.94	0.00	-81.69	-7.63
Dominican Republic	-102.56	0.00	107.33	38.78
Jamaica	-7.92	0.00	-3.48	0.62
Nicaragua	16.17	0.00	-26.02	37.54
Panama	-23.17	0.00	-16.19	24.85
El Salvador	-44.69	0.00	20.61	2.42
Trinidad and Tobago	-343.79	-0.04	-84.47	18.98
<i>B&R South America</i>				
Argentina	1047.11	0.05	-940.41	417.56
Bolivia	304.13	0.03	-46.50	108.00
Chile	-215.23	0.00	73.01	125.16
Ecuador	180.34	0.01	-157.48	111.10
Guyana	-233.51	-0.01	103.06	9.26
Peru	-120.08	0.00	17.02	150.79
Suriname	5.28	0.00	-10.33	2.42
Uruguay	47.67	0.00	-10.50	2.28
Venezuela	0.00	0.00	0.00	0.00
<i>B&R Oceania</i>				
Fiji	18.42	0.00	-11.70	0.34
New Zealand	-392.86	-0.01	110.17	155.22
Papua New Guinea	90.89	0.01	-27.34	27.67
Samoa	0.89	0.00	-2.09	0.91
Vanuatu	-0.03	0.00	-2.38	2.85