Table S1. Detailed emission performance of the fifteen RCEP countries from 2000–2017.

Country	Region	Year	*CEE*	*CPP*	*CPR*	Year	*CEE*	*CPP*	*CPR*
China	East Asia	**2000**	*0.2255*	*0.1442*	*3.5908*	**2009**	*0.2434*	*0.1962*	*1.6347*
Japan	East Asia	**2000**	*0.8164*	*0.8427*	*0.9395*	**2009**	*0.9084*	*0.8952*	*1.0300*
South Korea	East Asia	**2000**	*0.4103*	*0.4122*	*0.9911*	**2009**	*0.5671*	*0.5961*	*0.9074*
Australia	Oceania	**2000**	*0.4281*	*0.6376*	*0.5054*	**2009**	*0.4964*	*0.7482*	*0.4964*
New Zealand	Oceania	**2000**	*0.4482*	*0.4254*	*1.1133*	**2009**	*0.5645*	*0.5259*	*1.1587*
Brunei	ASEAN	**2000**	*0.5078*	*0.6294*	*0.6762*	**2009**	*0.4618*	*0.7309*	*0.4618*
Cambodia	ASEAN	**2000**	*0.4788*	*0.2436*	*57.6867*	**2009**	*0.5190*	*0.2685*	*28.8333*
Indonesia	ASEAN	**2000**	*0.9805*	*0.5564*	*7.4168*	**2009**	*0.8382*	*0.5034*	*4.9745*
Laos	ASEAN	**2000**	*1.0000*	*0.5136*	*36.7647*	**2009**	*1.0000*	*0.5287*	*17.4216*
Malaysia	ASEAN	**2000**	*0.5011*	*0.3972*	*1.7085*	**2009**	*0.4679*	*0.4122*	*1.3125*
Myanmar	ASEAN	**2000**	*0.2097*	*0.1073*	*43.6875*	**2009**	*0.6321*	*0.3229*	*46.1387*
Philippines	ASEAN	**2000**	*0.7680*	*0.4223*	*10.0392*	**2009**	*0.9595*	*0.5224*	*11.2617*
Singapore	ASEAN	**2000**	*0.6905*	*0.7946*	*0.7684*	**2009**	*0.5317*	*0.6024*	*0.7899*
Thailand	ASEAN	**2000**	*0.8432*	*0.5443*	*3.4360*	**2009**	*0.7232*	*0.5028*	*2.5609*
Vietnam	ASEAN	**2000**	*0.2706*	*0.1448*	*14.2421*	**2009**	*0.3105*	*0.1788*	*6.6064*
China	East Asia	**2001**	*0.2414*	*0.1549*	*3.5344*	**2010**	*0.2506*	*0.2088*	*1.5006*
Japan	East Asia	**2001**	*0.8292*	*0.8502*	*0.9518*	**2010**	*0.9064*	*0.9127*	*0.9863*
South Korea	East Asia	**2001**	*0.4326*	*0.4346*	*0.9911*	**2010**	*0.5262*	*0.5856*	*0.8158*
Australia	Oceania	**2001**	*0.4222*	*0.6332*	*0.5001*	**2010**	*0.5080*	*0.7540*	*0.5080*
New Zealand	Oceania	**2001**	*0.4305*	*0.4191*	*1.0562*	**2010**	*0.5714*	*0.5312*	*1.1637*
Brunei	ASEAN	**2001**	*0.5099*	*0.6081*	*0.7219*	**2010**	*0.4493*	*0.7247*	*0.4493*
Cambodia	ASEAN	**2001**	*0.4627*	*0.2359*	*51.4111*	**2010**	*0.5243*	*0.2721*	*26.4798*
Indonesia	ASEAN	**2001**	*0.9076*	*0.5214*	*6.7180*	**2010**	*0.9208*	*0.5479*	*5.2647*
Laos	ASEAN	**2001**	*1.0000*	*0.5146*	*34.3643*	**2010**	*1.0000*	*0.5317*	*15.7978*
Malaysia	ASEAN	**2001**	*0.4938*	*0.3977*	*1.6373*	**2010**	*0.4400*	*0.4013*	*1.2138*
Myanmar	ASEAN	**2001**	*0.2663*	*0.1358*	*50.2453*	**2010**	*0.5959*	*0.3062*	*36.1152*
Philippines	ASEAN	**2001**	*0.8244*	*0.4513*	*10.5557*	**2010**	*0.9104*	*0.4983*	*10.5615*
Singapore	ASEAN	**2001**	*0.7313*	*0.8415*	*0.7684*	**2010**	*0.6121*	*0.6791*	*0.8205*
Thailand	ASEAN	**2001**	*0.7965*	*0.5210*	*3.2444*	**2010**	*0.6998*	*0.4932*	*2.4417*
Vietnam	ASEAN	**2001**	*0.2652*	*0.1431*	*12.6286*	**2010**	*0.3107*	*0.1812*	*6.0213*
China	East Asia	**2002**	*0.2400*	*0.1573*	*3.2215*	**2011**	*0.2556*	*0.2214*	*1.3661*
Japan	East Asia	**2002**	*0.8111*	*0.8410*	*0.9313*	**2011**	*0.8696*	*0.8940*	*0.9469*
South Korea	East Asia	**2002**	*0.4421*	*0.4502*	*0.9647*	**2011**	*0.5250*	*0.5955*	*0.7884*
Australia	Oceania	**2002**	*0.4185*	*0.6285*	*0.4992*	**2011**	*0.5195*	*0.7598*	*0.5195*
New Zealand	Oceania	**2002**	*0.4380*	*0.4245*	*1.0657*	**2011**	*0.5929*	*0.5435*	*1.2000*
Brunei	ASEAN	**2002**	*0.5481*	*0.6348*	*0.7597*	**2011**	*0.3843*	*0.6922*	*0.3843*

Cambodia	ASEAN	**2002**	*0.5125*	*0.2611*	*53.3854*	**2011**	*0.5729*	*0.2973*	*26.5231*
Indonesia	ASEAN	**2002**	*0.9097*	*0.5239*	*6.5920*	**2011**	*0.8186*	*0.5004*	*4.4953*
Laos	ASEAN	**2002**	*1.0000*	*0.5151*	*33.2226*	**2011**	*1.0000*	*0.5343*	*14.5985*
Malaysia	ASEAN	**2002**	*0.5105*	*0.4095*	*1.6548*	**2011**	*0.4555*	*0.4132*	*1.2281*
Myanmar	ASEAN	**2002**	*0.2765*	*0.1411*	*48.5088*	**2011**	*0.6392*	*0.3298*	*31.4877*
Philippines	ASEAN	**2002**	*0.8576*	*0.4685*	*10.8010*	**2011**	*0.9384*	*0.5133*	*10.6395*
Singapore	ASEAN	**2002**	*0.8108*	*0.9054*	*0.8108*	**2011**	*0.8115*	*0.7923*	*1.0497*
Thailand	ASEAN	**2002**	*0.7642*	*0.5050*	*3.1090*	**2011**	*0.7252*	*0.5089*	*2.4793*
Vietnam	ASEAN	**2002**	*0.2560*	*0.1396*	*11.0823*	**2011**	*0.3235*	*0.1901*	*5.7055*
China	East Asia	**2003**	*0.2242*	*0.1529*	*2.7509*	**2012**	*0.2790*	*0.2437*	*1.3388*
Japan	East Asia	**2003**	*0.8180*	*0.8504*	*0.9266*	**2012**	*0.8547*	*0.8937*	*0.9164*
South Korea	East Asia	**2003**	*0.4686*	*0.4752*	*0.9726*	**2012**	*0.5474*	*0.6161*	*0.7994*
Australia	Oceania	**2003**	*0.4335*	*0.6550*	*0.4946*	**2012**	*0.5244*	*0.7622*	*0.5244*
New Zealand	Oceania	**2003**	*0.4298*	*0.4235*	*1.0304*	**2012**	*0.5771*	*0.5379*	*1.1572*
Brunei	ASEAN	**2003**	*0.5525*	*0.6513*	*0.7366*	**2012**	*0.3917*	*0.6959*	*0.3917*
Cambodia	ASEAN	**2003**	*0.5237*	*0.2671*	*50.3558*	**2012**	*0.6056*	*0.3146*	*25.7702*
Indonesia	ASEAN	**2003**	*0.9136*	*0.5273*	*6.4840*	**2012**	*0.8357*	*0.5129*	*4.3984*
Laos	ASEAN	**2003**	*1.0000*	*0.5158*	*31.7460*	**2012**	*1.0000*	*0.5370*	*13.5135*
Malaysia	ASEAN	**2003**	*0.4601*	*0.3873*	*1.4634*	**2012**	*0.4776*	*0.4291*	*1.2549*
Myanmar	ASEAN	**2003**	*0.2798*	*0.1430*	*45.8689*	**2012**	*1.0000*	*0.5126*	*39.8406*
Philippines	ASEAN	**2003**	*0.8809*	*0.4804*	*11.0250*	**2012**	*0.9202*	*0.5050*	*10.2472*
Singapore	ASEAN	**2003**	*0.7011*	*0.6338*	*1.2376*	**2012**	*0.7933*	*0.7926*	*1.0018*
Thailand	ASEAN	**2003**	*0.7304*	*0.4886*	*2.9595*	**2012**	*0.6997*	*0.4994*	*2.3394*
Vietnam	ASEAN	**2003**	*0.2581*	*0.1419*	*10.0428*	**2012**	*0.3752*	*0.2180*	*6.1711*
China	East Asia	**2004**	*0.2162*	*0.1531*	*2.4049*	**2013**	*0.3059*	*0.2685*	*1.3242*
Japan	East Asia	**2004**	*0.8391*	*0.8702*	*0.9311*	**2013**	*0.8657*	*0.9090*	*0.9092*
South Korea	East Asia	**2004**	*0.4779*	*0.4921*	*0.9441*	**2013**	*0.5562*	*0.6288*	*0.7931*
Australia	Oceania	**2004**	*0.4510*	*0.6920*	*0.4834*	**2013**	*0.5444*	*0.7722*	*0.5444*
New Zealand	Oceania	**2004**	*0.4501*	*0.4379*	*1.0573*	**2013**	*0.6019*	*0.5533*	*1.1926*
Brunei	ASEAN	**2004**	*0.5243*	*0.6436*	*0.6873*	**2013**	*0.4940*	*0.7470*	*0.4940*
Cambodia	ASEAN	**2004**	*0.5591*	*0.2852*	*49.9196*	**2013**	*0.6501*	*0.3378*	*25.5945*
Indonesia	ASEAN	**2004**	*0.8785*	*0.5110*	*6.1220*	**2013**	*1.0000*	*0.5965*	*5.1840*
Laos	ASEAN	**2004**	*1.0000*	*0.5164*	*30.5810*	**2013**	*1.0000*	*0.5423*	*11.8203*
Malaysia	ASEAN	**2004**	*0.4385*	*0.3797*	*1.3669*	**2013**	*0.4631*	*0.4292*	*1.1715*
Myanmar	ASEAN	**2004**	*0.2444*	*0.1256*	*36.4776*	**2013**	*1.0000*	*0.5148*	*33.8983*
Philippines	ASEAN	**2004**	*0.8752*	*0.4780*	*10.8451*	**2013**	*0.8822*	*0.4870*	*9.6100*
Singapore	ASEAN	**2004**	*0.8413*	*0.7281*	*1.3682*	**2013**	*0.7407*	*0.7789*	*0.9065*
Thailand	ASEAN	**2004**	*0.6915*	*0.4705*	*2.7715*	**2013**	*0.6874*	*0.4975*	*2.2354*

Vietnam	ASEAN	**2004**	*0.2512*	*0.1399*	*8.8140*	**2013**	*0.3903*	*0.2276*	*6.0231*
China	East Asia	**2005**	*0.2135*	*0.1565*	*2.1479*	**2014**	*0.3391*	*0.2972*	*1.3282*
Japan	East Asia	**2005**	*0.8486*	*0.8821*	*0.9268*	**2014**	*0.9037*	*0.9304*	*0.9442*
South Korea	East Asia	**2005**	*0.5240*	*0.5272*	*0.9879*	**2014**	*0.5776*	*0.6480*	*0.8040*
Australia	Oceania	**2005**	*0.4865*	*0.7433*	*0.4865*	**2014**	*0.5591*	*0.7796*	*0.5591*
New Zealand	Oceania	**2005**	*0.4495*	*0.4440*	*1.0251*	**2014**	*0.6130*	*0.5630*	*1.1949*
Brunei	ASEAN	**2005**	*0.5239*	*0.6368*	*0.6988*	**2014**	*0.4278*	*0.7139*	*0.4278*
Cambodia	ASEAN	**2005**	*0.5417*	*0.2770*	*44.4016*	**2014**	*0.6037*	*0.3157*	*21.8732*
Indonesia	ASEAN	**2005**	*0.9046*	*0.5260*	*6.1412*	**2014**	*1.0000*	*0.5972*	*5.1467*
Laos	ASEAN	**2005**	*1.0000*	*0.5172*	*29.0698*	**2014**	*1.0000*	*0.5463*	*10.7991*
Malaysia	ASEAN	**2005**	*0.4316*	*0.3797*	*1.3171*	**2014**	*0.4753*	*0.4436*	*1.1542*
Myanmar	ASEAN	**2005**	*0.2937*	*0.1506*	*39.6892*	**2014**	*1.0000*	*0.5178*	*28.1690*
Philippines	ASEAN	**2005**	*0.8941*	*0.4878*	*10.9840*	**2014**	*0.8669*	*0.4807*	*9.1833*
Singapore	ASEAN	**2005**	*0.8475*	*0.7471*	*1.3105*	**2014**	*0.7623*	*0.8001*	*0.9098*
Thailand	ASEAN	**2005**	*0.6911*	*0.4728*	*2.7166*	**2014**	*0.7229*	*0.5190*	*2.2942*
Vietnam	ASEAN	**2005**	*0.2597*	*0.1456*	*8.2444*	**2014**	*0.3675*	*0.2182*	*5.3416*
China	East Asia	**2006**	*0.2150*	*0.1625*	*1.9545*	**2015**	*0.3785*	*0.3295*	*1.3494*
Japan	East Asia	**2006**	*0.8762*	*0.9020*	*0.9444*	**2015**	*0.9447*	*0.9573*	*0.9740*
South Korea	East Asia	**2006**	*0.5419*	*0.5480*	*0.9782*	**2015**	*0.5858*	*0.6611*	*0.7955*
Australia	Oceania	**2006**	*0.4871*	*0.7436*	*0.4871*	**2015**	*0.5540*	*0.7770*	*0.5540*
New Zealand	Oceania	**2006**	*0.4700*	*0.4609*	*1.0405*	**2015**	*0.6291*	*0.5767*	*1.1999*
Brunei	ASEAN	**2006**	*0.7282*	*0.8641*	*0.7282*	**2015**	*0.5560*	*0.7780*	*0.5560*
Cambodia	ASEAN	**2006**	*0.5572*	*0.2853*	*41.8947*	**2015**	*0.5122*	*0.2711*	*17.1304*
Indonesia	ASEAN	**2006**	*0.9376*	*0.5448*	*6.1684*	**2015**	*1.0000*	*0.6078*	*4.6382*
Laos	ASEAN	**2006**	*1.0000*	*0.5194*	*25.7732*	**2015**	*0.7922*	*0.4517*	*7.1305*
Malaysia	ASEAN	**2006**	*0.4557*	*0.3949*	*1.3644*	**2015**	*0.5182*	*0.4734*	*1.2093*
Myanmar	ASEAN	**2006**	*0.3035*	*0.1560*	*36.1310*	**2015**	*0.9371*	*0.4897*	*22.1537*
Philippines	ASEAN	**2006**	*1.0000*	*0.5410*	*12.2100*	**2015**	*0.8092*	*0.4532*	*8.3251*
Singapore	ASEAN	**2006**	*0.9105*	*0.7968*	*1.3331*	**2015**	*0.7238*	*0.7883*	*0.8487*
Thailand	ASEAN	**2006**	*0.7041*	*0.4828*	*2.6936*	**2015**	*0.7328*	*0.5274*	*2.2765*
Vietnam	ASEAN	**2006**	*0.2767*	*0.1558*	*7.9511*	**2015**	*0.3510*	*0.2122*	*4.7885*
China	East Asia	**2007**	*0.2226*	*0.1722*	*1.8276*	**2016**	*0.4165*	*0.3616*	*1.3580*
Japan	East Asia	**2007**	*0.8666*	*0.9048*	*0.9190*	**2016**	*0.9638*	*0.9702*	*0.9870*
South Korea	East Asia	**2007**	*0.5352*	*0.5566*	*0.9261*	**2016**	*0.5818*	*0.6693*	*0.7689*
Australia	Oceania	**2007**	*0.4868*	*0.7434*	*0.4868*	**2016**	*0.5472*	*0.7736*	*0.5472*
New Zealand	Oceania	**2007**	*0.4995*	*0.4814*	*1.0784*	**2016**	*0.5226*	*0.4675*	*1.2672*
Brunei	ASEAN	**2007**	*0.4205*	*0.7103*	*0.4205*	**2016**	*0.5185*	*0.7593*	*0.5185*
Cambodia	ASEAN	**2007**	*0.5401*	*0.2774*	*36.9932*	**2016**	*0.4832*	*0.2576*	*15.1000*

Indonesia	ASEAN	**2007**	*0.8997*	*0.5282*	*5.7452*	**2016**	*0.9864*	*0.6067*	*4.3473*
Laos	ASEAN	**2007**	*1.0000*	*0.5217*	*23.0947*	**2016**	*0.4356*	*0.2776*	*3.6421*
Malaysia	ASEAN	**2007**	*0.4638*	*0.4022*	*1.3621*	**2016**	*0.5161*	*0.4807*	*1.1590*
Myanmar	ASEAN	**2007**	*0.3559*	*0.1829*	*36.3163*	**2016**	*0.9770*	*0.5132*	*19.8174*
Philippines	ASEAN	**2007**	*0.9766*	*0.5298*	*11.7663*	**2016**	*0.8198*	*0.4605*	*8.1008*
Singapore	ASEAN	**2007**	*1.0000*	*1.0000*	*1.0000*	**2016**	*1.0000*	*1.0000*	*1.0000*
Thailand	ASEAN	**2007**	*0.7175*	*0.4930*	*2.6723*	**2016**	*0.7549*	*0.5421*	*2.2924*
Vietnam	ASEAN	**2007**	*0.3028*	*0.1706*	*7.9060*	**2016**	*0.3713*	*0.2247*	*4.7542*
China	East Asia	**2008**	*0.2305*	*0.1827*	*1.7099*	**2017**	*0.4496*	*0.3919*	*1.3457*
Japan	East Asia	**2008**	*0.9062*	*0.9193*	*0.9720*	**2017**	*1.0000*	*1.0000*	*1.0000*
South Korea	East Asia	**2008**	*0.5463*	*0.5746*	*0.9061*	**2017**	*0.5795*	*0.6796*	*0.7432*
Australia	Oceania	**2008**	*0.4908*	*0.7454*	*0.4908*	**2017**	*0.5493*	*0.7747*	*0.5493*
New Zealand	Oceania	**2008**	*0.5054*	*0.4910*	*1.0604*	**2017**	*0.5159*	*0.4701*	*1.2162*
Brunei	ASEAN	**2008**	*0.3932*	*0.6966*	*0.3932*	**2017**	*0.5208*	*0.7604*	*0.5208*
Cambodia	ASEAN	**2008**	*0.5512*	*0.2837*	*34.0247*	**2017**	*0.5102*	*0.2723*	*14.8746*
Indonesia	ASEAN	**2008**	*0.8511*	*0.5066*	*5.2537*	**2017**	*0.9998*	*0.6183*	*4.2221*
Laos	ASEAN	**2008**	*1.0000*	*0.5250*	*20.0401*	**2017**	*0.4555*	*0.2918*	*3.5558*
Malaysia	ASEAN	**2008**	*0.4372*	*0.3930*	*1.2534*	**2017**	*0.5430*	*0.5023*	*1.1766*
Myanmar	ASEAN	**2008**	*0.5566*	*0.2841*	*47.9828*	**2017**	*1.0000*	*0.5274*	*18.2815*
Philippines	ASEAN	**2008**	*0.9212*	*0.5027*	*10.9536*	**2017**	*0.8054*	*0.4566*	*7.4782*
Singapore	ASEAN	**2008**	*0.8620*	*0.7807*	*1.2327*	**2017**	*1.0000*	*1.0000*	*1.0000*
Thailand	ASEAN	**2008**	*0.7484*	*0.5119*	*2.7175*	**2017**	*0.7620*	*0.5495*	*2.2618*
Vietnam	ASEAN	**2008**	*0.3028*	*0.1728*	*7.0913*	**2017**	*0.3973*	*0.2403*	*4.7695*