Production versus consumption-based emission targets: implications for developing and developed economies

MADANMOHAN GHOSH, Corresponding Author Analysis and Modeling Division, Environment Canada, 10 Wellington Street, Gatineau, Quebec, K1A 0H3 Canada. Email: madanmohan.ghosh@ec.gc.ca

MANMOHAN AGARWAL

Centre for International Governance Innovation, Waterloo, ON, Canada. Email: magarwal@cigionline.org

Online Appendix

Regional mapping scheme

Abbreviation	Regions in the	Regions in GTAP.1 database	
	model		
	Australia New	Australia and New Zealand	
ANZ	Zealand		
BRA	Brazil	Brazil	
CAN	Canada	Canada	
CHN	China	China, Hong Kong	
EUR	EU27 plus EFTA	France, Germany, Italy, United Kingdom, Austria, Belgium, Denmark, Finland, Greece, Ireland, Luxembourg, Netherlands, Portugal, Spain, Sweden, Czech Republic, Hungary, Malta, Poland, Romania, Slovakia, Slovenia, Estonia, Latvia, Lithuania, Bulgaria, Cyprus, Switzerland, Norway, Rest of EFTA	
IND	India	India	
JPN	Japan	Japan	
OPC	OPEC	Indonesia, Rest of North Africa, Nigeria, Rest of South Central Africa, Ecuador, Venezuela, Iran, Islamic Republic of, Rest of Western Asia	
ROE	Rest of OECD	Turkey, Mexico and South Korea	
USA	United States	United States	
RUS	Russia	Russia	
ROW	Rest of the World	Iceland, Liechtenstein, Algeria, Libyan Arab Jamahiriya, Angola, Congo, Democratic Republic of the, Bahrain, Iraq, Israel, Jordan, Kuwait, Lebanon, Palestinian Territory, Occupied, Oman, Qatar, Saudi Arabia, Syrian Arab Republic, United Arab Emirates, Yemen	

Mapping of sectors of the model

Sectors in the model	Energy intensive trade exposed sectors	Sectors in GTAP database
Mineral products nec	yes	NMM
Ferrous metals	yes	I_S
Water transport		WTP
Air transport		ATP
Transport nec		ОТР
Metals nec	yes	NFM
Chemical, rubber, plastic products	yes	CRP
Machinery and equipment nec		OME
Coal		COL
Petroleum and coal products (refined)	yes	OIL
Crude oil		CRU
Natural gas		GAS, GDT
Electricity		ELE
Other manufactures and services		All other sectors

Source: Authors own classification (from GTAP database version 7.1).