

Index

- Act on the Control of Export, Import and Others of Specified Hazardous Wastes and Other Wastes, *see* Japanese Basel Act
- Act on the Transboundary Movement of Waste and its Treatment, South Korea 72, 74, 160
- Act on Waste Management (AWM), South Korea 72, 73, 74, 81–4
- Act on Waste Management and Public Cleansing, Japan 120, 127
- aluminum scrap
 - China 34–7, 39–42
 - Philippines 103, 105
- Amano, T. 134
- ASEAN
 - and Philippines 111
 - and Vietnam 53
- ATW (Act on the Transboundary Movement of Waste and its Treatment) 72, 74, 160
- automobile parts 163
- AWM (Act on Waste Management) 72, 73, 74, 81–4

- Balassa, Bela 31
- Ban Amendment 150, 169
- Bangladesh, shipbreaking 188
- Basel Action Network (BAN) 45
- Basel Ban Amendment 150, 169
- Basel Convention 3–4, 116–19, 149, 192, 193
 - classification of hazardous waste 6
 - illegal traffic definition 150–51
 - and Japan, *see* Japanese Basel Act and the Philippines 109
 - and shipbreaking industry 182, 183, 189
- battery waste 27, 76, 161–3
 - and pollution 5–6
- beaching 178, 180
- border trade 38–9

- Cairo Guidelines and Principles for the Environmentally Sound Management of Hazardous Wastes 117
- Cambodia, export industries 138
- cathode ray tube monitors 24–5, 27, 43–4, 76, 101
- China
 - battery waste from Japan 162–3
 - e-waste recycling, Guiyu 45–7
 - electric and electronic equipment waste 41–4
 - iron scrap imports 55
 - Japanese recycling company 142
 - old-for-new policy 47–8
 - PET bottles 4, 9, 26
 - plastic waste imports 17, 28–9, 158–9, 163–4
 - raw material import duty reduction system 136–7
 - recyclable waste trade 16, 17, 33–49
 - recycling industry 25
 - registration system for waste trade 9
 - regulation on import of recyclables 25–6, 44–5
 - return shipments to Korea 159–60
- China Steel 180
- classification of waste
 - Basel Convention 6
 - South Korea 74–5, 79–84
- CLI (Country Led Initiative) 128
- coal ash, South Korea 85
- collection subsidy, e-waste, China 47–8
- Commercial Law, Vietnam 61–2
- comparative advantage in recyclables imports 23–4
- competitiveness, shipbreaking industry 179–81

- compost 160
- Conference of Parties (COP)
 - 2nd 3–4
 - 3rd 4
 - 8th 149–50
 - 10th 5
- container shipping 64–5
- COP, *see* Conference of Parties
- Copeland, Brian R. 3, 14–15
- copper scrap
 - China 34–7, 39–42
 - Philippines 102, 107
- cost of recycling, effect on trade flow 20
- Cote d'Ivoire 149–50
- Country Led Initiative (CLI) 128
- CRT monitors 24–5, 27, 43–4, 76, 101

- Da Nang 63
- DAO 94–28, Philippines 93
- Decision 12, Vietnam 61, 62, 64
- decision-making process, Vietnam 66–7
- Decree 12, Vietnam 61–2
- Decree 80, Environmental Protection Law, Vietnam 61, 71
- Decree 81, Environmental Protection Law, Vietnam 61
- demand for recycled resources, effect on trade flow 21
- Department of Natural Resources and Environment (DONRE), Vietnam 65
- destination of recyclable waste, China 34–6
- developed countries, recycling activities 30–31
- DONRE (Department of Natural Resources and Environment), Vietnam 65
- duty free zones (DFZs) 137

- E & E Solutions 136
- e-waste
 - imports, China 41–4
 - recycling, Guyiu 45–7
 - shipments seized in Hong Kong 152–5
 - see also* CRT monitors
- Ecological Solid Waste Management Act, Philippines 10, 90, 91–3, 93–4

- economic partnership agreements (EPAs) and waste from EPZs 145
- economic recession, effects on waste trading, Philippines 108–9
- EIDS (Export/Import Declaration System), South Korea 72–3, 74, 79
- electric and electronic equipment
 - imports to China 41–4
 - imports to Thailand 157
 - see also* e-waste
- enforcement, Japanese Basel Act 124–8
- enterprise types, China 39–41
- Environmental Police, Vietnam 62, 65
- environmental policies, effect on trade flow 21, 35–7
- environmental problems 3, 5–6, 25–6
 - China 33, 45–7
 - coal ash 85–6
 - illegal imports, Vietnam 62–3
 - policy recommendation 29–30
 - shipbreaking industry 182
- Environmental Protection Law, Vietnam 60–61, 64, 67, 70–71
- environmentally sound management (ESM) 5, 117, 183, 193
- EPAs, and flow of recyclable waste from EPZs 145
- EPR (extended producers' responsibility) 68
- EPZs (export processing zones) 134–5
- export approval, Japanese Basel Act 132–3
- Export/Import Declaration System (EIDS), South Korea 72–3, 74, 79
- export processing zones (EPZs) 134–5 and import duty reduction systems 136–47
- “Exporting Harm: The High-Tech Trashing of Asia” (Basel Action Network and Silicon Valley Toxics Coalition) 45
- extended producers' responsibility (EPR) 68

- flow of recyclables, Philippines 99–101
- Foreign Exchange and Foreign Trade Act, Japan 122, 124
- foreign-owned enterprises, China 39–41

- France, interception of waste from
 Japan 163
- free trade agreements (FTAs), and flow
 of recyclable waste from EPZs 145
- free trade zones (FTZs), China 136–7
- Fujii, Yoji 15
- G8, adopting 3R initiative 4
- gaming machines 156–8
- glass waste 24–5
- global trends, effects on waste trading,
 Philippines 107–9
- globalization and recyclables trade,
 Vietnam 53–5
- Grace, Richard 3
- Guangdong Province 36
- Guiyu, China 45–7
- Hai Phong 63
- Hanoi 63
- hazardous waste
 classification 6, 79–81
 definitions 2, 121–2, 131–2, 192–3
 recycling, export industries 139–44
- hazardous waste trade
 current issues 9–10
 export industries 139–42
 historical overview 3–4
 illegal trade 149–72
 Philippines 109–10
 South Korea 76–7
 trade measures 5–9
- Ho Chi Minh City 44, 63
- Honda, Shunichi 167
- Hong Kong
 battery waste from Japan 161–2
 EE equipment waste import control
 41–3
 illegal e-waste imports 152–5
 ship-backs of illegal waste 27
- Hotta, Yaushiko 29
- Huadong area 36
- Huong, N.T.M. 41
- illegal trade
 and Basel Convention 150–51, 167
 definitions 150–51, 167
 and environmental problems 62–3
 of hazardous waste 149–72
 and national legislation 151–2
 prevention measures 168–71
 of recyclables 25, 27
 ship-backs 170–71
- illicit transboundary movement 167
- IMO Ship Recycling Convention
 183–9, 193
- import competitiveness for recyclables
 23–4
- import duty reduction systems 134–47
- import taxes, impact on flow of waste
 from EPZs 144
- imports of recyclables
 Asia 15–16
 China 33–44
 illegal 63–5
 and pollution 29–30, 45–7, 62–3
 South Korea 76–8
 Vietnam 53–66
- Indonesia
 compost imported from Singapore
 160
 export industries' waste 138
 plastic waste imports 4, 6
 regulation on import of recyclables
 26
 waste paper imports 24
- informal recyclers 191
- information sharing to reduce illegal
 traffic 169–70
- infrastructure and waste trading,
 Philippines 105–6
- inspection of shipments 170
- International Resource Panel 10
- international trade of, *see* trade
 inventory, Ship Recycling Convention
 183–4
- iron scrap 15–16, 21
 Philippines 103, 104
 from shipbreaking 174
 Vietnam 53, 54, 56–7, 63
- Japan
 auto parts 163
 battery waste 161–3
 coal ash 85–6
 e-waste 155
 hazardous waste imports 139–42
 information dissemination 170
 medical waste 155
 Nisso Incident 124–5

- pachinko machines 156–8
- plastic waste 20, 28–9, 158–9
- recyclables trade 3, 21, 22, 27
- recycling policies 21
- ship plate 179–80
- shipbreaking industry 176
- Styrofoam disposal 112
- urban mining 30
- waste paper trade 16–17
- Japanese Basel Act 119–24, 131–3, 170
 - enforcement 124–8
- Japanese export industries and import
 - duty reduction systems 136–44
- Japanese recycling companies
 - in China 142
 - in Philippines 137
 - in Thailand 143
- Jiansu province 36
- junkshops, Philippines 99, 101
- Kilus Foundation Multi-Purpose
 - Cooperative 94
- Kojima, Michikazu 52
- Korea, *see* South Korea
- landfill sites, South Korea, impact of
 - coal ash imports 86
- lead batteries, *see* battery waste
- legislation, *see* regulations
- Levinson, Arik 15
- Ley, Eduardo 15
- low-quality recyclables, Vietnam 55–60
- Malaysia, free zone export industries
 - 138
- markets for recyclables
 - Philippines 93–4, 96
 - and recycling industry location 24
 - Vietnam 55
- material recovery facilities 94–6
- Measures on Administration of Waste
 - Import, China 45
- medical waste 155
- metal scrap
 - Asia 15–16
 - China 34–7, 39–41
 - recycling industry 142, 146
 - urban mining 30
 - see also* aluminium scrap, copper scrap, iron scrap, steel scrap
- Michida, Etsuyo 21, 31
- Ministry of Environment, South Korea
 - 73, 74–5
- Ministry of Industry and Trade
 - (MOIT), Vietnam 62
- Ministry of Natural Resources and
 - Environment (MONRE), Vietnam 62, 63
- MOIT (Ministry of Industry and
 - Trade), Vietnam 62
- Mongolia, tax on second-hand cars 9
- MONRE (Ministry of Natural
 - Resources and Environment), Vietnam 62, 63
- National Ecology Center, Philippines
 - 92–3
- National Solid Waste Management
 - Commission (NSWMC), Philippines 92
- Netherlands, plastic waste exported to
 - Thailand 156
- Nisso Incident 124–5
- NSWMC (National Solid Waste
 - Management Commission), Philippines 92
- old-for-new policy, e-waste, China 47
- pachinko machines 156–8
- Pan-Kan Test Co. 159–60
- paper, *see* waste paper
- path dependency and recycling
 - industry location 24–5
- PET waste, China 4, 9
- Philippines
 - Ecological Solid Waste Management Act 10
 - export industries 137–8
 - medical waste from Japan 155
 - Nisso Incident 124–5
 - waste management 90–113, 192
 - Philippines–Japan Economic Partnership Agreement (PJEPA) 109–11
 - Philippines Republic Act 4653 93
 - Philippines Republic Act 6969 93
 - Philippines Republic Act 9003 10, 90, 91–3, 93–4
 - PIC (prior informed consent) 118

- PJEPA (Philippines–Japan Economic Partnership Agreement) 109–11
- plastic waste
 China 4, 9, 20, 26, 28–9, 158–9, 163–4
 competitive advantage 20
 illegal exports 156, 158–9, 163–4
 Indonesia 4, 6
- plastics ban, Philippines 103–5
- policies
 and raw material import duty reduction 145–6
 for sustainable trade 29–30
see also regulations
- pollution, *see* environmental problems
- population growth, Philippines 91
- Pre-Application Consultation Service, Japan 125–6
- pre-shipment inspection 9, 159, 161
- precious metal scrap 24
- prices
 of recyclables, effects on waste trading 106–7
 steel scrap 34
- prior informed consent (Basel Convention) 118
 and illegal shipments 167
- private enterprises, China 39–41
- Probo Koala* 149–50
- processing trade 38
- Qingdao 28–9, 158–9
- quality of recyclables 29–30
- Quezon City 96–8
- RA (Philippines Republic Act) 4653 93
- RA (Philippines Republic Act) 6969 93
- RA (Philippines Republic Act) 9003 10, 90, 91–3, 93–4
- raw material import duty reduction systems 134–47
- recession, effects on waste trading, Philippines 108–9
- recovery of recyclables, *see* recycling
- recyclable waste
 definition 2
 flow, Philippines 99–101
 imports, *see* imports of recyclables
 prices 106–7
 quality 29–30
- recyclable waste trade 14–31
 China 33–49
 current issues 9–10
 historical overview 3–5
 illegal, *see* illegal trade
 and import duty reduction system 134–47
 Philippines 99–111
 regulations 25–7, 60–62
 South Korea 72–87
 Vietnam 51–67
see also hazardous waste trade
- Recycle Ports 112
- recycling
 costs and competitive advantage 20
 and environmental problems 5–6, 45–7, 66
 export industries' difficulties 140–42
 legislation 21, 47
 Philippines 95–6
 policies 21, 44–5, 47–8
 and trade flow 18–19
- recycling industry
 Japanese companies overseas 137, 142, 143
 location determinants 18–25
 markets, Philippines 94, 96
 waste shortages 10
- registration systems 9
- Regulation for the Administration of the Recovery and Disposal of Waste Electric and Electronic Products, China 47
- regulations
 China 44–5, 47–8
 enforcement problems, Vietnam 63–5
 imports 26–7, 28–9, 41–3, 44–5, 60–62, 70–71, 157–8
 Japan 21
 Philippines 10, 90–94, 102–5
 recyclable quality 29–30
 recycling 21, 47
 shipbreaking industry 182–3
 South Korea 72–87
 Thailand 157–8
 trade 5–9, 72–87
 and trade flow of recyclables 21, 25–7
 Vietnam 60–62, 64, 70–71

- waste management 10, 91–4
 - and waste trading, Philippines 102–5
 - see also* Basel Convention
- responsibility for handling illegal shipments 168
- return shipments, *see* ship-backs
- revealed comparative advantage in imports 23–4
- RoHS directive 2002/95/EC 29–30
- safety, shipbreaking industry 182
- Sakata, Shozo 52
- San Carlos City 96–8
- San Fernando City 96–8
- Sasaki, S. 135, 142, 147
- scrap iron, *see* iron scrap
- scrap metal, *see* metal scrap
- second-hand goods
 - automobile parts 163
 - batteries 161–3
 - electric and electronic equipment 41–4, 156–8
 - environmental problems 6
- segregation of waste, Philippines 94–5
- Shimada, K. 142
- Shimizu, K. 147
- Shinkuma, T. 41
- ship-backs 27, 63, 159–60, 170–71
- ship plate 179–80
- ship recycling 174–89, 193
- Ship Recycling Convention 183–9, 193
- Shipbreaking Business Promotion Association 180
- shipbreaking industry 174–89
 - Ship Recycling Convention 183–9, 193
- Silicon Valley Toxics Coalition (SVTC) 45
- Singapore, compost exported to Indonesia 160
- South Korea
 - battery waste imports 163
 - regulatory system for transboundary waste 73–5
 - return shipments to China 159–60
 - transboundary waste management 72–87
- state-owned enterprises, China 39
- steel scrap
 - border trade, China 39
 - prices 34
 - from shipbreaking 179–80
- Styrofoam 112
- subsidies, old-for-new policy, China 47–8
- Taiwan
 - lead recycling causing pollution 5–6
 - manifest system 9
 - shipbreaking industry 176, 180–81, 182
- tariffs on imported waste 9
- technology and recycling industry
 - location 24
- Thailand
 - import ban on waste tires 6–9
 - Japanese recycling company 143
 - pachinko machines imported from Japan 156–8
 - plastic waste imported from Netherlands 156
 - raw material import duty reduction system 137
 - used tires imported from UK 155–6
- 3R initiative adopted by G8 4
- Toxic Substances and Hazardous and Nuclear Waste Control Act, Philippines 93
- trade 3–10
 - illegal, *see* illegal trade
 - trade types, China 38–9
 - see also* hazardous waste trade; recyclable waste trade
- trade agreements, Philippines 109–11
- trade liberalization and recyclables
 - trade, Vietnam 53–5
- trade regulations 5–9
 - China 26, 28–9, 41–3, 44–5
 - Indonesia 26
 - South Korea 72–87
 - Thailand 156, 157–8
 - Vietnam 60–62, 64, 70–71
 - see also* Basel Convention
- transboundary movement, *see* trade
- transboundary waste management, South Korea 72–87
 - definitions 73–4

- and pollution 85–6
- regulations 74–5
- transportation infrastructure, Philippines 105–6
- tires 6–9, 155–6
- United Kingdom
 - tires exported to Thailand 155–6
 - waste plastics exported to China 163–4
- United Nations Environment Program (UNEP) 117
 - International Resource Panel 10
- urban mining 30
- Vietnam
 - battery waste from Japan 161–2
 - e-waste exports to China 44
 - export industries' waste 138
 - illegal imports 62–5
 - import of recyclables and environmental pollution 51–67
 - recycling industry 25
 - regulations 60–62, 64
 - second-hand EE equipment imports 43
- waste
 - definitions 2, 73–4
 - classification, S. Korea 74–5, 81–4
 - see also* hazardous waste; recyclable waste
- waste collection system, Philippines 94–8
- Waste Electrical and Electronic Equipment (WEEE) directive 30
- waste glass 24–5
- waste management, Philippines 90–113
- Waste Management Act, Japan 120, 127
- waste paper 58–9
 - Indonesia 24
 - Japan 16–17
 - Philippines 111
 - Vietnam 55
- waste plastic, *see* plastic waste
- waste requiring a declaration (WRD), South Korea 79–81
- waste segregation, Philippines 94–5
- waste shortage for recycling industries 10
- waste stream and classification of hazardous waste 6
- waste trading, *see* trade
- WEEE (Waste Electrical and Electronic Equipment) directive 30
- World Trade Organization (WTO) 52, 53–5, 64
- WRD (waste requiring a declaration), South Korea 79–81
- Xinjiang region 36, 39
- Yoshida, Aya 26, 52
- Zhejiang province 36