acceptability
of Australian Minerals Industry Code for Environmental Management 156–9
as evaluation criterion for policy instruments 7–13, 28
of Greenhouse Challenge 123–5
of ISO14001 87–90
of voluntary approaches 48–9, 173–4
Accredited Licensing Scheme (Victoria) 68, 82, 89
AGO see Australian Greenhouse Office
Alcoa 144, 180
Aurora Gold 146
Australia climate change policy 101–2, 104–6
economic overview 63
energy market reform 128–9
energy policy 129
environmental attitudes 64
environmental policy instruments 67–8
greenhouse gas emissions see National Greenhouse Gas Inventory
key environmental issues 66–7
political structure 63
Australian Aluminium Council 126, 180
Australian Bureau of Agricultural and Resource Economics (ABARE) 126
Australian Greenhouse Office 104, 110, 111, 118
role in Greenhouse Challenge 109
Australian Industry Greenhouse Network (AIGN) 125
Australian Minerals Industry Code for Environmental Management 3, 68
Acceptability 156–9
accidents and incidents 145–8
as argument against regulation 156–7
compared to ISO14001 and Greenhouse Challenge 181–3
Code Guidance Notes 141
community dialogue 156
competitiveness effects 152–3
drivers for adopting Code 135–6
economic efficiency 151
environmental effectiveness 141–51
External Environmental Advisory Group 140–41, 143, 157, 161, 172
External Sustainable Development Advisory Group 161
geographic scope 139
inclusiveness and public participation 155–6, 172
innovation 154–5
objectives 136–9
performance data availability 141–2
performance targets 148
principles 137
public environmental reporting 139, 143–6
register of signatories 140
requirements for signatories 139–41
requirement to be a member of MCA 139–40
soft effects 153–4
transaction costs 152
verification 142–3
WWF review of public environmental reports 142–3
see also mining; Minerals Council of Australia
Australian Petroleum Production and Exploration Association 125
Ayres, Ian 53
bargaining 41
barriers to environmental improvements 26–7
Bendigo 180
Best Practice Environmental Licensing Scheme (Western Australia) 89
BHP 126, 143–5, 146–7, 151, 180
Ok Tedi 133, 146–7, 159
Bounded rationality 26–7
Braithwaite, John 53
BS7750 70
Business and Industry Advisory Council 48
business as usual 17–18, 111–12, 176
Business Council of Australia 126
Principles of Environmental Management 68
carbon dioxide 46, 99
carbon leakage 102
Cement Industry Federation 125
climate change
aerosols 98
economic impacts 98–9
greenhouse effect 97–8
international policy responses 99–101
science 97–8
Coase theorem 23
Code of Conduct Bill (Australia) 157, 159
command and control 3, 33–4
in Australia 67
in combination with other policy instruments 52
competitiveness effects
of Australian Minerals Industry Code for Environmental Management 152–3
as evaluation criterion for policy instruments 7–13, 24–5
of Greenhouse Challenge 119–20
of ISO14001 84–5
of voluntary approaches 45–6, 170
Commission of the Parties see United Nations Framework Convention on Climate Change
Consolidated Rutile Limited (CRL) 139, 144
Corporations Law (Australia) 73–4, 159
cost–benefit assessment 21–3
discount rates 20–21, 29–30
CO₂ see carbon dioxide
Department of Agriculture, Forestry and Food 125
Department of Industry, Science and Resources 125
Dome Resources 147, 159
due diligence 91–5
dynamic efficiency 111–12
Eco-Management and Auditing Scheme
compared to ISO14001 82–3
economic efficiency
of Australian Minerals Industry Code for Environmental Management 151
as evaluation criterion for policy instruments 7–13, 18–23
of Greenhouse Challenge 115–17
of ISO14001 81–4
issues in assessing 21–3
of voluntary approaches 43–5, 168–9, 183–4
economic instruments 34–6
in Australia 67–8
in combination with other policy instruments 51–2
electricity
prices 128–9
Electricity Supply Association of Australia Code of Environmental Practice 74
EMAS see Eco-Management and Auditing Scheme
Energy Smart Business programme 117, 118
emissions estimation 114–15
emissions trading 35–6, 106, 119
enforcement pyramid model 53–8, 179–80
environmental effectiveness
of Australian Minerals Industry Code for Environmental Management 141–51
as evaluation criterion for policy instruments 7–18
of Greenhouse Challenge 110–15
of ISO14001 73–80
issues in assessing 16–17
of voluntary approaches 39–43, 167–9, 183–5
environmental expenditures
expected rates of return 84, 116–17
environmental management systems
costs of developing, implementing and maintaining 81–2
see also BS7750; EMAS; ISO14001
environmental externalities 18–19
environmental policy instruments 33
in Australia 67–8
in combination 51–9, 180–85
see also command and control;
economic instruments; voluntary approaches; information-based approaches
Environment Protection Agency (Commonwealth) 135
Environmental Protection and Biodiversity Conservation Act (Australia) 65
EPA v Ampol 94
ERA/North Ltd 146
Esmeralda Exploration 147–8, 159
evaluation of policy instruments 6–30
see also acceptability; competitiveness effects; economic efficiency;
environmental effectiveness; inclusiveness and public participation; innovation; soft effects; transaction costs
External Environmental Advisory Group
see Australian Minerals Industry Code for Environmental Management
Exxon 126
free-riders
in voluntary approaches 42, 168
Friends of the Earth 29

Global Mining Initiative 134
Global Reporting Initiative 141
global warming see climate change
Global Warming Potential (GWP) 97
Greenhouse Gas Abatement Programme (GGAP) 105, 120
greenhouse gases 97–100
see also carbon dioxide
Greenhouse Challenge 97–131
acceptability 123–5
compared to ISO14001 and mining Code 181–3
competitiveness effects 119–20
Cooperative Agreements 107
economic efficiency 115–17
emissions abatement as measure of success 114, 167
environmental effectiveness 110–15
facilitative agreements 108
government evaluation (1999) 124–5
Greenhouse Allies 109
inclusiveness and public participation 122–3, 172
industry attitudes 123–4
innovation 122
inventories 107
Joint Consultation Committee 122–3
limitations in published data 115
logo 108
NGO attitudes 125
participation as requirement for emissions trading 119
Parliamentary Inquiry 124–5
performance against targets 110–11
regulatory capture 129–30
requirements 106–7
reporting 107–8
role in stimulating emissions abatement 112–13
soft effects 120–22
targets 114–15
Tier 1 and Tier 2 Agreements 107
transaction costs 117–19
uncertainties in greenhouse emissions estimation 114–15
verification 108–9, 119
see also no regrets
greenhouse sinks 100–101, 103

Highlands Pacific 147
Illawarra Coal 180
imperfect competition 19
information asymmetries 19–20
information-based approaches 36–7
in Australia 67–8
in combination with other policy instruments 51–2
inclusiveness and public participation
of Australian Minerals Industry Code
for Environmental Management
155–6
as evaluation criterion for policy
instruments 7–13
of Greenhouse Challenge 122–3, 172
of ISO14001 90–91
of voluntary approaches 50–51, 171–2
innovation
and Australian Minerals Industry
Code for Environmental
Management 154–5
as evaluation criterion for policy
instruments 7–13, 27–8
and Greenhouse Challenge 122
and ISO14001 87
and voluntary approaches 47–8, 171–2

Intergovernmental Agreement on the
Environment 64, 66
Intergovernmental Panel on Climate
Change 98, 99
International Council on Mining and
Minerals 134–5
Sustainable Development Principles
135, 161
ISO14001 69–96
acceptability 87–90
certification 70, 72–3, 79–80, 87–8
compared to EMAS 82
compared to the Greenhouse
Challenge and the mining Code
181–3
competitiveness effects 84–5
data availability 73–5
due diligence 92–5
economic efficiency 81–4
environmental effectiveness 73–81
innovation 87
inclusiveness and public participation
90–91, 172
key elements of ISO14001 70–73
NGO criticisms 89–90
pilot programme in Australia 70
and regulation 91–2
and regulatory compliance 75–6
as regulatory requirement 82, 91–2
soft effects 85–6
transaction costs 81–4
ISO14000 series standards
ISO14004 72
ISO14010 72
ISO14011 72
ISO14012 72
Kakadu 146–7
Kyoto Protocol 100–101, 124, 159
Clean Development Mechanism 100
Joint Implementation 100
liability for environmental offences 69
Load-Based Licensing 159
Managing Energy for Profits 109, 116,
118, 119
Measures for a Better Environment 105
MEGABARE 126
mining
environmental impacts 132
greenhouse gas emissions 145
industry interpretations of sustainable
development 150–51
industry involvement in drafting
environmental legislation 160
industry opposition to environmental
legislation 159, 162
industry reputation 133
international mining industry 132
NGO performance expectations
149–50, 158
public attitudes 132–3
MIM 143–4, 180
Minerals Council of Australia 172
ability to enforce Code 140
Sustainable Development Report 143,
145
Mining Ombudsman see Oxfam
Community Aid Abroad
Mining, Minerals and Sustainable
Development (MMSD) Project
134–5, 157, 160, 162
monitoring of voluntary approaches
176
monopolies 19–20
Nabalco 144, 180
National Carbon Accounting System 104
National Cleaner Production
Demonstration Project 116
National Environment Protection Council 64
National Environment Protection Measures 64, 159
National Forests Policy 64
National Greenhouse Gas Inventory 102–5, 113
National Greenhouse Response Strategy 104
National Greenhouse Strategy 64, 66, 105
National Heritage Trust 66
National Oceans Policy 64, 66
National Packaging Covenant 68
National Pollutant Inventory 16, 64, 67, 73
National Strategy for Ecologically Sustainable Development 64–7
National Strategy on Biodiversity 166
negotiated agreements 4, 45–6
no regrets 104, 115
Normandy Mining 180
Oxfam Community Aid Abroad 147
Mining Ombudsman 155
Pasminco 145, 151
Pigou 19
Placer Dome 180
Plastics and Chemicals Industry Association (PACIA) 109, 116
pollution
as measure of environmental performance 174–5
uncertainties in estimating emissions 16–17, 114–15
private agreements 4
public attitudes to mining 132–3
public environmental reporting 73–5, 143–6, 176
in Australia 74
data quality issues 141–2, 145–6
see also Australian Minerals Industry Code for Environmental Management
public goods 19
public participation see inclusiveness and public participation
public voluntary agreements 4
regulatory capture 14, 41–2, 76, 129–30
regulatory overload 178
Regional Forests Agreement 66
Renewable Energy (Electricity) Act 131
Renewable Energy (Electricity) (Charge) Act 131
Renewable Energy (Electricity) Regulations 131
Responsible Care
in Australia 68, 74
in USA 39–40, 44, 49
Rio Tinto 126, 146–7, 180
Ross Mining 146
R v Bata Industries 92, 94
Safeguarding the Future 104
soft effects
of Australian Minerals Industry Code for Environmental Management 153–4
as evaluation criterion for policy instruments 7–13, 25–7
of Greenhouse Challenge 120–22
of ISO14001 85–6
of voluntary approaches 46–7, 170–71, 184
Standards Australia 70
static efficiency 111–12
State of the Environment Reporting 66
Statistics Norway 29
Statoil 126
sustainable development 14–15, 20–21, 66–7
Sustainable Energy Development Authority 117–18
see also Energy Smart Business programme
Thiess 139, 180
Tragedy of the Commons 19
transaction costs
of Australian Minerals Industry Code for Environmental Management 152
as evaluation criterion for policy instruments 7–13, 23–4
of Greenhouse Challenge 117–19
of ISO14001 81–4
of voluntary approaches 44–5, 169–70, 184
unilateral commitments 4, 45–6
United Nations Framework Convention on Climate Change 99–101, 130
Commission of the Parties 100, 102

verification of public environmental reports 142–3
voluntary approaches
acceptability 48–9, 173–4
as arguments against regulation 168, 173
in Australia 67–8
bargaining 41
in combination with other policy instruments 51–2, 59, 180–85
competitiveness effects 45–6, 170
definition 4
design 175–7
economic efficiency 43–4, 168–9, 183–4
in energy policy 126–8
enforcement 50, 177, 180
environmental effectiveness 39–43, 167–8, 183–5
free-riders 42
inclusiveness and public participation 50–51, 171–2
innovation 47–8, 171–2
key features 37–9
limitations in targets 167–8
monitoring 176
regulatory capture 41–2
role in implementing public policy 58–9, 74, 177–80
soft effects 46–7, 170–71, 184
transaction costs 44–5, 169–70, 184
transparency 50
typology 4

welfare economics 18
WMC 180
World Business Council for Sustainable Development 16
WWF 49, 157–8
review of mining industry reports 142–3