

Index

- A New Earth – The Environmental Challenge* 85
- ABARE 1, 82–3
- Abatement Certificate Providers (NSW) 143
- abatement costs, Kyoto Protocol 65
- accessibility of energy 69
- acid rain 41–5
- ACT, greenhouse gas initiatives 144–5
- active solar power systems 17
- adverse effects of energy efficiency 64
- AER 127
- aerosols 52
- AFCP 86
- Agenda 21: 67
- AGO 86, 88, 139
- agreement monitoring by AGO 91
- Agreement to Implement the National Competition Policy 118
- Allen Consulting Group 4–5
- allocation of rights and duties 31
- Alternative Fuels Conversion Program 86
- ammonia, atmospheric 45
- anthropogenic emissions, *see* greenhouse gas emissions
- appliances 12, 175
- Asia-Pacific Partnership on Clean Development and Climate 110–11
- Auditor-General 89–91
- Australia
- electricity restructuring 118–26
 - energy production in 1–9
 - government initiatives 78–111
 - greenhouse gas emissions 3
 - in Asia-Pacific Partnership on Clean Development and Climate 110–11
 - industry attitudes 188
 - response to greenhouse gases 81–4
 - scope for emissions trading 192
 - US Free Trade Agreement 135–6
 - wind energy potential 19
 - withdrawal from Kyoto Protocol 53
- Australia Institute
- on Asia-Pacific Partnership on Clean Development and Climate 110–11
 - on geosequestration 186
 - on Hazelwood power station 154
 - support for Kyoto Protocol 83, 84
- Australian and New Zealand Minerals and Energy Council 175
- Australian Bureau of Agricultural and Resource Economics 1, 82–3
- Australian Competition and Consumer Commission 122
- Australian Conservation Foundation 83, 135
- Australian Electricity Market Commission 127
- Australian Electricity Regulator 127
- Australian Energy Consumption and Production* 1
- Australian Energy Market Agreement* 126–8
- Australian energy: National and State Projections to 2019–20: 2*
- Australian Energy Regulator 134
- Australian Gas Light Company 122, 157
- Australian Greenhouse Office 86, 88, 139
- Australian Model Uniform Building Code 179
- Australian National Audit Office 89–91
- Australian Securities and Investment Commission 122
- Australian Standards 204
- Australian Wind Energy Association 94
- BASIX index 152
- Basslink 121
- biofuels 7, 22–3
- encouraging use of 105–6
 - from native forests 94–5, 103
 - from waste oil 7
 - regulation of 166–7
- Biofuels for Cleaner Transport* 105
- Brazil, biofuels in 23
- Brundtland Report 10, 36

- buildings
 construction guidelines 154, 155, 179
 energy efficiency 11–12, 195
 State legislation 179–81
 sustainable 152
 voluntary codes of practice 159
Business Case for Ratification of the Kyoto Protocol 84
- California Public Utilities Code (US) 195
 cap-and-trade approach 140
 carbon dioxide, *see* carbon sequestration
 carbon sequestration 145, 185–8
 carbon taxes 190
 carbon trading schemes 140
 CarbonTender 148
 carrot and stick approach 30
 Catholic bishops, on Kyoto Protocol 85
 CDM 55
 Centre for Energy and Greenhouse Technology (Vic) 147–8
 CEO Low Emissions Technology Advisory Group 109
 Chernobyl disaster 49
 China 199–207
 civil society, support for Kyoto Protocol 83, 84–5
 clean coal technology 108–10, 206
 Clean Development Mechanism 55
 Clean Energy tax (US) 190
 Cleaner Fuels grants 106
 climate change, *see also* Kyoto Protocol
 Commonwealth initiatives 185–8
 international law 40, 50–7
 Johannesburg Plan of Implementation 73
 legislation to cover 92–5
 predictions 78
 Climate Change, Clean Energy and Sustainable Development 74–6
 Co-operative Programme for the Monitoring and Evaluation of Long-Range Transboundary Air Pollution in Europe 41
 COAG, *see* Council of Australian Governments
 COAG's *Quandary: What to do with the Energy Markets Reform Program?* 128
 coal, *see also* fossil fuels
 advanced technologies 26, 108–10, 206
 electricity generated from 3
 exports of 2
 COAL21: 108
 cogeneration 14
 commitment period reserve 56
 Commonwealth government
 involvement in gas supply 132
 legal powers 199–207
 legislation to cover energy 92–5
 no-regrets policy 85–7, 137
 policy statements 182–207
 renewable energy legislation 95–104, 137
 responsibilities under Constitution 80–1
 rights and duties 32
 Commonwealth Ombudsman report on ABARE 83
 competition policy 113, 118, 131
 Comprehensive Regional Assessments 95
 Conduct Code Agreement 118
 Constitution 32, 80–1
 construction, *see* buildings
 consumers
 eco-labelling for 156, 196
 information kept from 115
 information rights 212
 not consulted on green power 162
 controlled actions 92
 conventions, international law 41–66
 cooperation between states 64, 214, 221
 cooperative federalism 120
 Coordinating Committee on Energy Conservation 175
 Council of Australian Governments
 legality of agreements 120
 National Competition Policy 118
 on regulatory responsibility 80
 reviews NAM 124–6
 CPA 95
 CRAs 95
 critical loads approach 42
 CSIRO, climate change predictions 78
 customary international law 38–41
- demand-side management 169–74, 195
 Denmark 117, 191
 Department of Energy, Utilities and Sustainability (NSW) 158
 Department of Foreign Affairs and Trade 136
 design guidelines, *see* environmental issues
 designated energy users 171
 differentiation principle 82
 dispute resolution in Free Trade Agreement 136
 domestic electrical appliances 12, 175
 domestic energy programs 63
 Draft Protocol on Energy Efficiency and Renewable Energy to the United Nations Framework Convention on Climate Change 214

- DSM 169–74, 195
- E10: 7, *see also* ethanol
- eco-labelling 156
- ecologically sustainable development 112–13
- Ecologically Sustainable Development Transport Working Group 107
- economics, legal involvement in 28–30
- education
 environmental 212
 international law on 61
 legal involvement in 28–30
- Eggleston, Alan 8
- electrical appliances, *see* domestic electrical appliances
- electricity
 coal-generated 3
 from biomass 166
 green power 155–63
 industry restructuring 112–29, 138
 solar generation 17
 sustainable development 112–38
Electricity Distribution Price Review 2006–2010 173
- eligible renewable energy sources 96
- emergency obligations
 environmental issues 39
 nuclear emergencies 49–50
- emissions, *see* greenhouse gas emissions
- energy
 access to 69
 Australian production 1–9
 Australian use 2–3
 international law 34–77
 international trade 35
 legal issues 30–2, 182–207
 legislation to cover 92–5
 performance standards 174–81
 pricing 211
 security of 185
 technologies 10–33
 trade in 1–2, 35
- energy acquisition statements 100
- Energy Australia 157
- Energy Charter Treaty 57–60, 65
- energy crops 103
- energy efficiency
 as a resource 60
 buildings 195
 Commonwealth initiatives 184–5
 in consumption 210
 in supply 210
- international law on 58, 70
 legal issues 203–5
 of motor vehicles 107–8
 technologies 11–16
- Energy Efficiency Opportunities Scheme 203
- Energy Grants (Cleaner Fuels) Scheme 106
- energy savings action plans 172
- Energy Savings Fund (NSW) 171
- Energy Survey 2001–2: 1
- energy taxes 190
- Environment Business Australia 84
- Environment Protection and Biodiversity Conservation Act* 92–3
- Environment Protection Authority (Vic) 147–8
- environmental issues
 competition policy and 119
 electricity restructuring 112, 113–18
 emergency obligations 39
 environmental planning 151–3, 155
 hydro-electricity 24
 impact assessment 224
 impact mitigation 212
 international law 36
 National Electricity Market 123–4
- Essential Services Commission of South Australia 168, 173
- Essential Services Commission (Vic) 173
- ethanol
 encouraging use of 105–6
 production 22
 use in fuels 7
- European Energy Charter 57
- European Union 192
- excise rates on fuel 105, 183
- Expanded Gas Program 133–4
- exploitation of energy resources 31
- exploration and development leases 132
- Federal Energy Regulatory Commission (US) 116
- feed laws 196–8
- FirstRate House Energy Rating Software Package 180
- flexibility mechanisms, Kyoto Protocol 54–5
- Foreign Affairs and Trade, on Free Trade Agreement 136
- forestry
 biofuels from 103
 in Kyoto Protocol 53
 national significance 94–5
- fossil fuels 2, 26–8, 70, *see also* coal; natural gas

- Framework for Action on Energy* 69
 FRC 120
 free trade 35
 Free Trade Agreement (FTA) 135–6
 fuel cells 13, 25, 205
 fuel efficiency 104, 107, *see also* energy efficiency
 fuel emissions 104, *see also* greenhouse gas emissions
 fuel excise 105, 183
 fugitive emissions 123
 full retail contestability 120
- G8 Gleneagles 2005 Plan of Action 74–6
 gas, *see* natural gas
 Gas Access Regime 130
 Gas Code 130
 Gas Retail Licence Scheme (Qld) 163
 gasohol 23
 General Agreement on Trades in Services (GATS) 135
 geosequestration 145, 185–8
 geothermal energy 21–2, 164, 202
 Germany 117, 196–8
 GGAP 86
 ghetto mentality for renewable resources 161
 governments, *see* Commonwealth government; State governments
 Great Barrier Reef 79
Green Paper on Renewable Energy and Energy Conservation (Vic) 13
 green power 155–63
 Greenhouse and Energy Taskforce (WA) 151
 Greenhouse Benchmarks Scheme (ACT) 144–5
 Greenhouse Challenge 86
 Greenhouse Friendly/Greenhouse Free program 87
 Greenhouse Gas Abatement Program 86
 Greenhouse Gas Benchmark Rules (NSW) 143
 greenhouse gas emissions
 Australian responses 81–4
 climate change effects 52
 EPBCA trigger 93
 in gas supply 132
 reduction schemes 191
 State initiatives 139–51
 trading in 55, 126, 192–3
 Greenpeace 9, 85
- Hazelwood mine and power station 153–4
 HDR 22
- Heat is On, The: Australia's Greenhouse Future* 87
 Hilmer National Competition Review 118
 hot dry rocks 22
 hot groundwater 21
 Howard, John, on nuclear energy 8
 hydro-electricity 23, 28
 hydrogen fuels 13, 25, 205
- IGAE 80, 92
 Independent Pricing and Regulatory Tribunal (NSW) 142, 170
 industry
 attitudes to energy initiatives 188
 energy efficiency 13–16, 203–5
Inquiry into the Role of Demand Management and Other Options in the Provision of Energy Services 170
 Intergovernmental Agreement on the Environment 80, 92
 Intergovernmental Panel on Climate Change 51, 78, 187
 International Atomic Energy Agency 46
 international cooperation 64, 214, 221
 International Energy Agency 74, 169
 international law
 energy-related 32, 34–77, 198
 industry restructuring 113–29
 investment, and Free Trade Agreement 135–6
 IPCC 80, 92
- Johannesburg Plan of Implementation 71–4
 joint ventures in gas supply 132
- Kyoto Protocol 53–7, 81, *see also* climate change
- labelling requirements 174–81, 196
 Large User Abatement Certificates 142
 least cost abatement measures 54–5
 legal issues in energy usage 28–33
 liable entities 97, 98–100, 101
 Lovins, Amory 60
 Low Emissions Technology Development Fund 189
 Lowe, Ian 9
 Loy Yang Power Station 122
 LUAC 142
Lurching forward, looking back 188

- mandatory labelling laws 174
 Mandatory Renewable Energy Targets
 progress towards 102
 refining 103
 renewable energy in 3, 5
Mandatory Rollout of Interval Meters for Electricity Customers 173
 market distortions in gas supply 132
 Marrakesh Accords 56
 Maryland Energy Administration (US) 191
 MCE 124, 127, 133–4
 McLennan Magasanik Associates 84
 Measures for a Better Environment Package 89
 MEPS 177, 195
 methanol 22
 microeconomic reform, effects of 115, 118
 Millennium Development Goals 68
 Milne, Christine 9
 Minimum Energy Performance Standards 177, 195
 Ministerial Council on Energy 124, 127, 133–4
 Montreal Protocol on Substances that Deplete the Ozone Layer 64
 motor vehicles
 energy efficiency 12–13, 107–8
 fuel consumption standards 204
 international law on 70
 MREs, *see* Mandatory Renewable Energy Targets
 municipal waste provisions 103
 NatHERS 180
 National Biodiversity and Climate Change Action Plan 81
 National Competition Policy 113, 118
 National Electricity Market 119, 121–3
 changes to regulation 126–8
 COAG review 124–6
 Management Commission 97
 National Forest Policy Statement 95
 National Gas Law 133
 National Green Power Accreditation Steering Group 158
 National Greenhouse Gas Inventory 123–4
National Greenhouse Gas Inventory Workbook 93
 National Objectives and Targets for Biodiversity 81–4
National Third Party Access Regime for Natural Gas Pipelines 130
 Nationwide Housing Energy Rating Scheme 180
 natural gas, *see also* fossil fuels
 advanced technologies 206
 growth in use of 3
 restructuring industry 129
 sustainable development 112–38
 natural monopolies 113, 130
 natural resource management 81
 NCP 113, 118
 ‘negawatts’ 60
 Nelson, Brendan 8
New Earth, A – The Environmental Challenge 85
 New South Wales, *see* NSW
 New Zealand, drops out of Energy Charter 58
 NFPS 95
 NGAC 142
 NGPASG 158
 nitrogen oxide 42, 45
 no-regrets policy on climate change 85–7
 no-regrets policy on sustainable energy 137
 non-binding declarations 66–76
 Non-Legally Binding Authoritative Statement of Principles for a Global Consensus on the Management, Conservation and Sustainable Development of All Types of Forests 199
 Northern Territory government, overridden on uranium 2
 NRM 81
 NSW, *see* New South Wales
 demand-side management 170–3
 environmental planning 151–3
 Greenhouse Benchmarks Scheme 141–4
 Greenhouse Office 146
 labelling requirements 176
 regulation of wind farms and biomass 166–7
 NSW Cabinet Office report on Kyoto Protocol 83, 84
 NSW Greenhouse Abatement Certificate 142
 nuclear energy
 advanced technologies 26
 Australian potential 8–9
 international law on 39, 45–50
 plutonium 8, 27, 49
 terrorism risk 27
 uranium 2, 49
Nuclear Power: No Solution to Climate Change 9
 ocean thermal energy conversion 24
 Office of Energy (Qld) 163

238 INDEX

- Office of the Renewable Energy Regulator 104
- offshore wind generators 20
- oil, *see* biofuels; fossil fuels
- oil tanker disasters 36
- OPEC, energy trade with 35
- ORER 104
- Origin Energy report 84
- OTEC 24
- Our Common Future* 10, 36
- ownership of resources 31
- Parer Review of the National Electricity Market 102, 125–6
 on demand-side management 169
 on gas supply 131–3
- passive solar systems 17
- Pathways and Policies* 192
- performance measures, AGO 90
- photovoltaic electricity generation 17, 86, 89, 189
- planning, *see* environmental issues
- plutonium, *see also* nuclear energy
 production and transportation 8, 49
 terrorism potential 27
- pollution 39, *see also* greenhouse gas emissions; nitrogen oxide; sulphur emissions
- power towers 17
- Principles of Development Control 167
- privatisation, *see also* restructuring of power industry
 of electricity 120, 159
- process heaters 14
- program delivery, AGO 90
- Programme Guidelines for Solar Cities* 184–5
- Protocol on Energy Efficiency 57–65
- public benefit funds 195
- public interest 160
- PVRP 17, 86, 89, 189
- Queensland
 Greenhouse Strategy 149
 supports geothermal energy 165
 sustainable housing initiatives 154, 155
- RECP 86
- Regional Forestry Agreements 95
- Regional Greenhouse Gas Initiative (US) 141
- registration of renewable energy certificates 101
- regulation
 call for reregulation 137
 of gas supply 131
 precedes private investment 29
- remote area power generation 161
- renewable energy
 access to national markets 125
 difficulty competing 115
 Federal legislation 95–104
 in Australia 3–5
 international law on 70
 resources 16–26
 South Australia 167–8
- Renewable Energy Action Agenda 3, 5–7
- Renewable Energy Certificates 96–100, 144
- Renewable Energy Commercialisation Program 86
- Renewable Energy Equity Fund 86
- Renewable Fuel Program Administrator 106
- Renewable Opportunities: A Review of the Operation of the Renewable Energy (Electricity) Act 2000*: 95, 102–4
- Renewable Portfolio Standards 193
- renewable power percentages 97, 99–100
- Renewable Remote Power Generation Program 86
- rental buildings, energy efficiency in 11
- Report of the Kyoto Protocol Ratification Advisory Group* 83, 84
- reporting by AGO 91
- reregulation of energy market 137
- Residential Sustainability Measures* 181
- restructuring of power industry 112–29, 138, *see also* Parer Review of the National Electricity Market
- RfAs 95
- Rio Declaration 66
- road transport, *see* motor vehicles
- RPPs 97, 99–100
- Safeguarding the Future package 86, 107
- salinity 79
- Securing Australia's Energy Future* 182–90
- SEI 4–5
- Senate Environment, Communications, Information Technology and the Arts References Committee 87–8, 188
- solar cells, *see* photovoltaic electricity generation
- solar energy 16–19, 201
- SOMAs 44
- South Australia
 demand-side management 173
 Greenhouse Strategy 149
 renewable energy regulation 167–8
- spot price of electricity 122
- Standing Committee of Officials 128
- State and Territory Greenhouse Gas Emissions – An Overview* 139

- State governments
 commitment to green power 155–63
 demand-side management 169–74
 energy initiatives 139–81
 in gas supply 132
 renewable energy 137
 resource legislation 80
 rights and duties 32, 80–1, 199–207
 sustainable energy initiatives 163–8
Statement of Approach – A New Legislative Framework for Gas 133
 Stationary Energy Sector 140
 Stockholm Declaration on the Human Environment 38
 sulphur emissions
 from petrol 104
 international law on 42, 43, 45
 Sulphur Oxides Management Areas 44
 sustainable development 10–33, 60
 sustainable energy
 from fuel 104–7
 in electricity and gas 112–38
 industry 4–5
 initiatives in 163–8
 law framework 34, 36
 market for 136–7
 Sustainable Energy Authority (Vic) 163
 Sustainable Energy Development Authority (NSW) 163
 Sustainable Energy Development Office (WA) 163
Sustainable Energy Jobs Report 4–5
 synthetic greenhouse gases 67
 systems-benefits charges 195
- Tasmanian Dams case 80
 taxes on energy and carbon 190
 technology development strategies 6
The Heat is On: Australia's Greenhouse Future 87
 Top Energy Saver Award 177
 Total Environment Centre 129
Towards a Truly National and Efficient Energy Market, see *Parer Review of the National Electricity Market*
 Towards Sustainable Housing in Queensland 154, 155
 trade in energy, see energy
 transportation, see motor vehicles; road transport
Treatment of Demand Management in the Regulatory Framework for Electricity Distribution Pricing 170
- trigger provisions of activities 92
- United Nations Conference on Environment and Development 66
 United Nations Framework Convention on Climate Change 52, 64
 United States
 Clean Energy tax 190
 Free Trade Agreement 135–6
 green power 158
 Regional Greenhouse Gas Initiative 141
 renewable energy 116
 withdraws from Kyoto Protocol 53
 uranium 2, 49, see also nuclear energy
- vehicle fuel cells 25
 Victoria
 demand-side management 173
 environmental planning 153–5
 Greenhouse Strategy 147–8
 supports geothermal energy 164
 supports wind energy 163
Victoria: Leading the Way 110
 Victorian Civil and Administrative Tribunal 153–4
 volatile organic compounds 45
 volcanic energy reserves 21
 voluntary agreements preferred to regulation 159
- Warwick McKibbin Report* 83, 84–5
 wave energy 24, 25
 Western Australia, Greenhouse Strategy 150
- wind energy
 EPBCA developments 93–4
 in Australia 5, 19–20
 legal issues 202
 regulation of 166–7
 Victorian support for 163
 visual impact of 102
- World Commission on Environment and Development 36
World Energy Assessment 2004 Update (UN) 68
World Energy Assessment: Energy and the Challenge of Sustainability 10
 World Summit on Sustainable Development 68–71
 World Trade Organization (WTO) 136
 World Wide Fund for Nature (WWF) 78, 79