

Index

- Aalborg Charter 56, 215
administrative dimension of EPI 16–20
 assessing progress 20
Agenda 21 13, 54–7, 67, 216, 220
 see also Local Agenda 21
Agreement on the Sustainability of the Basque Country 203
air quality, in GFORS project 96–7
Allison, G. 14
ALTENER project 63–4
Ambiente Italia 73
Andonova, L. 180
Andrew, C. 80
Antypas, A. 185, 186, 190, 193, 194
assessment methods 33–4
Atkinson, R. 99
Australia, study on EPI 21, 24–5
Austria 69
- Baker, S. 20, 34
Balkan countries, study on EPI 20
barriers to EPI 25, 64
Beck, U. 89, 100
Belgium, EIA in Walloon region 73
Bennett, A. 7
Benz, A. 129, 150
Berger, G. 45, 62, 63
Berkhout, F. 12, 13
best practices 32
biodiversity
 and climate change compared 2–5
 comparison between programmes for integration 5
 legal and institutional prerequisites 4
 loss 3
 support for 4, 83
‘blindness of society’ 121, 122, 123, 124, 127
Börzel, T. 146, 150, 181
Braun, R. 56, 67
- Brazil 67
Bringezu, S. 143, 147
Brundtland report 90, 125
Bulgaria 185, 186–7, 188
 energy efficiency 191
 legal reform 192
 Struma motorway project 190
 transport sector 188–9
Bulmer, S. 157, 160
Burch, M. 157, 160
- carbon reduction 6
Cardiff Process 62, 125
Carley, M. 126
Cataluña 204
Central and Eastern Europe
 bureaucratic and administrative culture 184–5
 centrally planned economic model 179–80
 decision-making 186–7
 energy 193
 environmental assessment 185–6, 193–4
 EPI 179–97
 and EU accession 183–4, 187–8
 funding for 195
 in maturation 183
 and modes of governance 181–6
 EU membership 180
 governance and intimate networks 188–91, 195
 Ministries of Environment 180
 New Environmental Policy Instruments (NEPI) 192
 political commitment 185
 regulation 192–3
 Strategic Environmental Impact Assessment (SEA) 185
 transition to free market system 180

- centralisation 78
 challenges to EPI, strategies to overcome 35–6
 Cherp, A. 186, 193, 194
 choices 92
 Christensen, T. 148
 Clement, K. 49, 50–51, 65–6
 climate change 22, 87, 96, 124, 173
 and biodiversity compared 2–5
 comparison between programmes for integration 5
 legal and institutional prerequisites 4
 measurement of performance 2
 policy in Europe 5–6
 public understanding 3
Cohesion Policy and the Environment 66
 Collier, U. 13, 222
 Commission of the European Communities 65
 communication 122, 127
 CONCERTO 64
 Consejería de Medio Ambiente 216, 217
 Conselleria de Medio Ambiente 204
 constraints to EPI 27–8
 Convery, F. 4
 cooperation 74
 amongst authorities 47
 coordination 14, 175, 199, 220
 hierarchical forms 29
 inter-institutional 208–11
 intergovernmental 215
 coordination mechanisms 19
 Corcelle, G. 65
 corruption 58, 141–2, 150
 country environmental profiles (CEP) 50
 country-specific studies 20–25
 CPRE (Council for the Protection of Rural England) 165
 cross country studies of EPI 25–6
 cybernetics of second order 124
 Czempiel, E.O. 146

 David, H. 46, 47, 51, 52, 53
 De Graaf, R. 72
 DeBardeleben, J. 180
 decision making 1–8
 environmental considerations in 201
 social participation in 217–19
 demands of EPI 31

 DETR (Department of the Environment, Transport and the Regions) 161, 162, 168, 169, 173
 developmental policies, and environment 1
 DFID 57
 DMAOT 207, 214
 DoE (Department of the Environment) 158, 159, 160, 164
 Dovers, S. 21, 24–5, 37
 Drezner, D.W. 27

 Eberlein, B. 148
 Eckerberg, K. 20, 21
 ecological communication 127, 128
 ecological modernisation 71
 economic development, and environment 46
 embedding environmental concerns, approaches to 14
 emissions trading policy, in GFORS project 96
 ENCORE 215, 220
 ENDS (Environmental Data Services) 162, 165, 166, 172
 energy intensity, by country 133
 environment
 and developmental policies 1
 and economic development 46
 Environment for Europe Conference 25
 environment and policy integration, evaluation of instruments for 5–7
 environmental assessment, Central and Eastern Europe 185–6
 environmental considerations, in decision making 201
 Environmental Impact Assessment (EIA) Spain 218
 in Walloon region, Belgium 73
 environmental indicators 128
Environmental Integration Handbook 50
 environmental management, and poverty reduction 57–8
 environmental NGOs 189–90
 environmental policy
 integration into decision-making 1–7
 traditional 15
 environmental policy integration (EPI) 1, 12, 13, 27
 administrative dimension 16–20

- analytical perspectives 11–13
- as an outcome 83
- barriers to 25, 64
- cognitive perspective 13
- conditions for 2
- constraints to 27–8
- definitions of 9, 12
 - EPIGOV 105
 - OECD 1, 12
- governance for 13–15
- and local governments 82–4
- meaning of 200
- and the nation state 9–37
- normative approach 1, 12, 13, 27
- normative stance 200–201
- organisational perspective 14
- as a policy principle 202–5
- political perspective 14
- principled priority approach 201
- and regional governance 202
- strategic level 15–16
 - literature 10–11
- and sustainability 88
- through inter-institutional coordination 208–211
- tools for 26–7
- see also* local EPI; national EPI; regional EPI
- Environmental Policy Integration and Multi-level Governance (EPIGOV) 103, 116–18, 151
 - compared to GFORS 105–8
 - definition of EPI 105
 - governance concept 107
 - and governance modes 108
- environmental problems 122, 152, 180
- environmental protection 36–7, 84
- Environmental Protection Agencies (EPAs), UK 160
- environmental risk information, suppression 122–3, 127
- EPIGOV *see* Environmental Policy Integration and Multi-level Governance (EPIGOV)
- Esser, K. 129
- European Commission (EC) 50, 57, 60, 66, 68
- European Community Treaty 20
- European Environment* 49
- European Environmental Advisory Council (EEAC) 46, 52
- European Environmental Agency (EEA) 5, 14, 15, 34, 122, 127
 - assessment of progress with EPI 17
 - review of progress with EPI in EU states 25
- European institutional structures 17
- European Regional Development Fund (ERDF) 68
- European Sustainable Cities and Towns Campaign 56
- European Union (EU)
 - Environmental Action Programmes 65
 - and EPI 20
 - policy making 150–51
 - policy recommendations 151–3
 - regional EPI 49
 - regional policy
 - EPI in 121–2
 - greening 121–56
 - research projects 59–64
 - Structural and Cohesion funds 64–6
 - study on EPI 21
 - view of EPI 13
- European Union Emissions Trading Scheme (EU ETS) 3, 6
- Eurostat 143
- Evans, P. 82
- Fahrner, S. 97
- Farmer, A. 20
- Fernández Latorre, F. 213
- Fischer, F. 89, 92
- Fisher, D. 180
- Flanders, sustainable development 71
- Foxon, T. 117
- Frendo, L. 73
- functional differentiation 121, 123–5, 126, 127
 - and governance 128
 - and resonance 129
- Fürst, D. 129
- Gaebler, T. 79
- Generalitat de Catalunya 204, 214, 216
- Gerber, J.D. 84
- Germany 33
 - North Rhine-Westphalia case study 131–45
 - efficiency agency 144
 - energy agency 137–8

- energy intensity 132–8
- implementation 143–4
- land initiative for future energies 136–7
- policy cycle 134–5
- problem analysis 132
- Programme for the Rational Use of Energy (REN) 135–6
- resonance 132, 135, 138–42
 - with environmental indicators 149
- structural indicator, ‘municipal waste volume’ 138, 140–43
- and PM10 directive 97–8
- regional EPI 49
- study on EPI 21, 22
- Gignerich, W. 150
- Glasson, J. 49, 124
- Global Environmental Facility (GEF) 58
- Gobierno Vasco 203, 213
- Goldsmith, M. 80
- Gosling, J. 49, 124
- governance
 - definitions of 181
 - for EPI 13–15
 - and functional differentiation 128
 - market-type modes 29
 - multi-level 47–8, 150
 - new 150
 - sustainability 87–8
- governance arena model 91
- governance forms, hierarchical 29, 46, 96, 108, 112, 113, 164
- governance modes 91–2, 105
 - Central and Eastern Europe 181–6
 - and EPIGOV 108
 - European 146
 - in Italian SEA study 113–16, 117
 - and national level EPI 29
 - UK 163–4
- Governance for Sustainability (GFORS) 88–95, 103
 - air quality 96
 - analytical model 104
 - compared to EPIGOV 105–8
 - concept 95
 - conceptual framework 106
 - emissions trading policy 96
 - Italian SEA case study 103, 109–16
 - action arena 114
 - planning process 110
 - research findings 111–12
- objectives 104–5
- perspective on environmental integration 106
- research 106
- strategic environmental assessment (SEA) 96, 108–9
- Grant, R. 24
- Green Alliance 171
- green budgeting 166–7
- Green Ministers Committee 161, 163, 165, 168, 171
- greenhouse gases, carbon trading schemes 3
- Greening Regional Development Programme (GRDP) 66, 68–70
- Hall, P.A. 150, 182
- Haus, M. 97
- Heinelt, H. 88, 89, 91, 92, 94, 95
- Helm, D. 160, 166
- Hertin, J. 12, 13
- Hesse, J.J. 77
- hierarchical governance forms 29, 46, 96, 108, 112, 113, 164
- Hinterberger, F. 144
- Homeyer, I. von 181, 182
- Hoornbeek, J. 21, 24
- horizontal integration 26, 33, 38, 44, 45, 46–7, 51–2, 53, 66, 72, 136
- Hovden, E. 12, 17, 20, 21, 34, 45, 87, 201
- Humbeek, P. 71
- Hungary 185, 188, 189
 - energy policy 190
 - legal reform 192
- IHOBE 207
- industrial clusters and eco-districts, Italy 73
- information
 - functional selection 121
 - public 212–13
- innovation 29, 220
- Institute for European Environmental Policy (IEEP) 181, 182, 192
- institutional analysis 18
- institutional arrangements, and sustainable development 199, 205

- institutional cultures 16–20
 institutional frameworks 30, 37
 institutional restructuring 30
 institutional structures, European 17
 institutional unwillingness 124
 instruments
 evaluation 6
 market based 6–7, 27
 integrated territorial planning 82
 integration
 horizontal 26, 33, 38, 44, 45, 46–7, 53, 66, 72, 136
 sector specific 52–3
 vertical 26, 33, 36, 38, 44, 45, 46–7, 51, 66
 and climate change 150
 inter-institutional coordination 208–11
 interest groups 19, 31, 33, 84, 113, 212, 217
 intergovernmental coordination 215
 intergovernmental relations 214–17
 International Council for Local Environmental Initiatives (ICLEI) 56–7
 International Research Workshop on Innovation in Environmental Policy 20–21
 international treaties, commitment to 31
 internet research 130–31
 INTERREG IIIC programme 68
 Italy 33, 69
 industrial clusters and eco-districts 73
 Milan SEA study 103, 109–16
 governance modes in 113–16
 Province of Milan Master Plan (PTCP) 111, 118
 study on EPI 20, 22–3
 sustainable development in Galicia 72
 Jacob, K. 18, 25, 29, 116, 181, 201, 211
 James, O. 167
 Jeffery, C. 60
 Johnson, S. 65
 joint ministerial conferences 27
 Jordan, A. 9, 12, 13, 14, 15, 17, 18, 19, 21, 23, 26, 27, 29, 33, 36, 62, 157, 159, 161, 162, 163, 165, 166, 168, 169, 170, 172, 175, 181, 201, 208, 211, 214
 Jordan, G. 173
 Jordan, J. 99
 Junta de Andalusia 203
 Karl, H. 49
 Keating, M. 64
 Khator, R. 20
 Kidd, S. 49
 Kjellberg, F. 78
 Knill, C. 27, 117, 148, 163, 181, 182, 183, 188
 knowledge 89, 90–91, 105
 flower of knowledge forms 92, 93
 forms of 91, 92
 reflective 93, 94
 knowledge-based approach, sustainability 106–7
 KnowledgeScapes 94
 Knudsen, J. 37, 201
 Kohler-Koch, B. 107, 150
 Kooiman, J. 94, 100
 Kraemer, A. 125
 Krause, D. 126
 Krugman, P. 79
 La Spina, A. 23
 Laegreid, P. 148
 Lafferty, W.M. 12, 13, 15, 21, 34, 37, 45, 56, 87, 100, 200, 201
 Landsberg, A. 141
 Larsen, M. 21
 legislation 32
 Lenschow, A. 9, 12, 13, 15, 17, 21, 26, 27, 29, 33, 117, 148, 163, 181, 182, 183, 185, 188, 202, 206
 Lewanski, R. 20, 22, 33
 liability rules 6
 Liberatore, A. 222
 Lindblom, C. 83
 Local Agenda 21 44, 54–7, 74, 125, 215–16
 local authorities 43, 52
 local EPI 43–75
 contentious issues 53
 research projects on 58–64
 sectoral case studies 70, 71–3
 support policies 53–4
 theoretical debate 51–4
 local governments
 direct election 79
 and EPI 82–4

- evolution 77–8
 - in the globalised world 78–82
 - population and local institutions 80
 - and socio-economic development 80
- local level, definition of 46
- Luhmann, H.-J. 122, 124, 127
- Luhmann, N. 123, 124, 125, 127, 128, 146, 152
- McCormick, J. 9
- McGinnis, M.V. 45
- Majone, G. 148
- market economies 150
- market-based instruments 6–7, 27
- material flow policy 144
- Matthiesen, U. 92, 93, 94
- mechanisms to promote integration 26
- Medarova, K. 185, 188, 189, 190, 191, 192, 193
- Metcalfe, L.M. 14, 157, 174, 175
- Metcalfe scale of coordination 170, 171
- Metzner, A. 127
- Meyer-Stamer, J. 129
- Millennium Development Goals 57
- modes of governance *see* governance
 - modes
- monitoring and assessment of EPI 34, 36
- Morata, F. 47, 48, 52, 60, 64, 67
- Müller, E. 33
- multi-level governance 47–8, 150
- MWMEV 132
- Napoleonic states 77
- nation state 80, 82, 181
 - and EPI 9–37
- National Environment Action Plans (NEAPs) 16
- national EPI 15–27
 - literature on 10–11
 - and modes of governance 29
 - obstacles to 29–31
- National Sustainable Development Strategies (NSDSs) 10, 16
- natural resources 58
- Netherlands 33
 - water management and spatial planning 72
- network coordination 181
- Network of Regional Governments for Sustainable Development 43, 67–8
- networks 29, 208
 - in Italian SEA case study 115–16
 - non-hierarchical 91
 - of regional governments 215
 - of regions 67–70, 74
- New Economic Geography 79
- New Public Management 79
- Newman, A. 148
- Newman, J. 107
- NGOs (non-governmental organizations) 97, 99, 138, 188, 189–90, 191
- Nilsson, M. 13, 20, 21, 33, 185, 202
- normative approach to EPI 1
- Norway, studies on EPI 20, 21
- NRG4SD 67–8, 215, 220
- Nullmeier, F. 92
- objective 2 programme 151
- OECD 15, 19, 157, 169, 173, 174, 180, 202
 - definition of environmental policy integration 1
 - monitoring and assessment of EPI 34
 - survey of EPI in 20 member countries 25–6
 - view of EPI 13
- open method of coordination (OMC) 148, 182–3
- Osborn, D. 158, 159, 164
- Osborne, D. 79
- Ostrom, E. 94, 105
- Our Common Future* 37
- Painter, M.J. 158
- Papadakis, E. 24
- Paredis, E. 56
- Pavlinek, P. 180
- Pearce, D.W. 1, 3
- Persson, A. 21, 33, 45, 185, 200, 202
- Peters, G.B. 14, 15, 19, 175, 201
- Pickles, J. 180
- Pickvance, K. 180
- Pierre, J. 107
- Plowman, J. 166
- PM10 directive 96–7
 - and Germany 97–8
- Pohoryles, R. 45, 62, 63
- policy conflict 26–7
- policy cycle 129, 130, 146, 152, 153
- phases of 134

- policy-making, exchange of experience 31–2
- political perspective, EPI 14
- political power, sharing 81
- political science, and governance research 94
- political systems, transformation 79
- Pollitt, C. 157, 161
- Porter, E.M. 73
- poverty reduction, and environmental management 57–8
- power struggles 201, 205
- Pratchett, L. 79
- price signals 1
- ‘principled priority’ approach 13, 201
- public policies 79
- Ranné, O. 49
- Regional Environmental Assessment (REA) 67
- Regional Environmental Profiles (REP) 50
- regional EPI 43–75
 - European Union 49
 - research projects on 58–64
 - sectoral case studies 70, 71–3
 - theoretical debate 48–51
 - tools for 64–7
- regional governance, and EPI 202
- regional governments, definitions of 45–6
- REGIONET project 60–63
 - national reports on sustainable development 61–2
 - workshops 61
- regions
 - definitions of 45
 - networks of 67–70, 74
- regulation 6
- reorganizations 206
- research and development 6
- research projects
 - EU 59–64
 - on regional and local EPI 58–64
 - at global level 58–9
- research and technological development (RTD), measures of 134
- resonance 146
 - and functional differentiation 129
 - North Rhine-Westphalia case study 131–45, 146
 - operationalizing 128–9
 - methodology 129–31
 - and social system 123, 127
 - resonance analysis 152
 - and model of governance 144–50
 - to measure social response to environmental problems 152
 - weaknesses of 152–3
 - resource policy, intervention point 147
 - responsive behaviour, of social system 121–6
- Rezessy, S. 185, 188, 189, 190, 193
- ‘Rhineland capitalism’ 150
- Rhodes, R.A.W. 150
- RIAs (regulatory impact assessments) 28, 162, 168–9
- Richards, D. 23, 173
- Richardson, J. 34, 173
- risk 89
- Rittel, H. 79
- Roberts, P. 48, 49
- Rose, C. 159, 162, 166
- Rosenau, J. 146
- Ross, A. 21, 23, 24–5, 157, 165, 175
- Rueschemeyer, D. 82
- Russel, D. 21, 23, 163, 167, 168, 169, 171, 172
- Ruud, A. 21
- Rydin, Y. 90
- SAVE project 60, 63–4
- Scharpf, F.W. 83
- Schepelmann, P. 125, 135, 144
- Schimank, U. 127
- Schmidt-Bleek, F. 126
- Schout, A. 12, 14, 18, 19, 21, 23, 30, 157, 170, 200, 201, 208, 211, 214
- Sciortino, G. 29
- SDI (integrated policy for sustainable development) 199
- sectoral case studies, regional and local EPI 70, 71–3
- sectoral compartmentalization 201, 205
- sectoral policies, territorial dimension 82
- Sgobbi, A. 1, 87
- Sharpe, L.J. 77
- Shaw, D. 49
- Single European Act 65

- Sixth Environmental Action Programme (EAP) 97
- Skocpol, T. 82
- Smith, M.J. 23, 173
- social participation, in decision making 217–19
- social response, analysis of 126–7
- social system(s)
 definition of 126
 and resonance 123
 responsive behaviour of 121–6
- social systems theory 127
- society, meta and meso levels of 129–30
- socio-economic development, and local governments 80
- sociological systems theory 123, 127
- Soskice, D. 182
- Spain
 Andalusia 203, 211, 213, 216, 218
 environmental reports 213
 Integrated Actions Committee for Sustainable Development 208–9
 Ministry of the Environment 206, 217
 Territorial Plan of Andalusia 218
 Andalusian Council for the Environment 217
 Andalusian Environmental Agency (AMA) 206
 Andalusian Sustainable Development Strategy (EADS) 203, 211
 Basque country 203, 206–7, 212, 213–14, 216, 217, 218
 Advisory Council on the Environment 217
 Advisory Council on Nature Conservation 217
 coordinating direction 210
 Environmental Framework Programme 203
 environmental impact assessment 218
 Environmental Indicators 214
 institutional structure 206
 interdepartmental committees 209–210
 relations with other regions 215
 Report on Environmental Sustainability 213
 Basque Environmental Strategy for SD 203, 212
 Catalonia 212, 214, 216, 217–18
 Advisory Council for Sustainable Development (CADS) 207
 Department of the Environment 207
The Environment in Catalonia 214
Environmental Data in Catalonia 214
 General Directorate of Environmental Policies and Sustainability 207
 governmental structure 207
 institutions for sustainability and environment 210
 relations with other regions 215
 Social Council for Sustainable Development 217–18
 Strategic Energy Plan of Catalonia 218
 strategic impact assessment 218
 sustainable development 204
Catalonia Report on Environment and Sustainable Development 214
 central government sustainable development strategy 215
 Conference on the Environment 215
 environmental impact assessment 218
 environmental plans 211–12
 EPI
 procedural factors 202
 and regional governance in 199–221
 through inter-institutional coordination 208–211
 within Environmental Departments 205–8
 evaluation, of environmental and sustainability issues 213
 Galicia 214, 216–17, 218–19
 Centre for Sustainable Development 207–8
 Delegate Commission for the Environment 211
 Department for the Environment 207
 environmental-administrative structures 207–8
 network of local authorities 215
 Strategic Environmental Assessment 218–19

- strategy for sustainable development 212
- sustainable development 204
- Galician Council for the Environment 218
- institutional changes 206, 219–20, 221
- institutionalization of sustainable development policy 205–211
- inter-institutional coordination 208–211
- intergovernmental coordination 215
- intergovernmental relations 214–17
- Local Agenda 21 216
- monitoring, sustainable development and environmental quality 212–14
- Network of Environmental Authorities 215
- non-governmental actors 220–21
- sectoral compartmentalization 205
- social participation in decision making 217–19
- strategic environmental assessments 218–19, 221
- sustainable development 199–200, 219 strategies 211–12
- Spangenberg, J. 125
- Spapens, P. 126
- Steger, T. 180
- Steurer, R. 16
- Stichweh, R. 124, 126
- Stoker, G. 107
- Strategic Environmental Assessment (SEA) 27, 66–7, 108–9, 221
 - Central and Eastern Europe 185
 - in GFORS project 96
 - Italy, case study 103, 109–16
 - Spain 218–19
 - UK 168, 169
- strategic EPI 15–16
- strategic plans, and sustainable development 220
- structural indicators
 - energy intensity, by country 133
 - generated municipal waste, by country 139
- subsidiarity 52
- subsidies 6
- SUSCOM (SUStainable COMmunities in Europe) 57
- sustainability
 - and EPI 88–90
 - knowledge-based approach 106–7
 - and local politics 96
 - measurement 90
 - as a policy integration issue 107
 - quantitative indicators 213
- sustainable development 9, 37, 46, 48, 65, 71
 - commitment to EPI 202–5
 - Flanders 71
 - Galicia, Italy 72
 - indicator-based approaches 90
 - and institutional arrangements 199
 - and REGIONET project 60–62
 - Spain 199–200
 - and strategic plans 220
 - three pillars of concept 205
 - UK 162, 163
- ‘Sustaining Our Common Future’ 159
- Swanson, D. 16
- Sweden 33
 - studies on EPI 20, 21–2
- systems theory 124
- Tauras, O. 45
- territorial reform 78
- Thelen 150
- Tils, R. 22
- tools for EPI 26–7, 28
 - at regional level 64–7
 - UK 164–5
- Torjussen, S. 17, 20
- Treaty of Amsterdam 60, 64
- Trieb, O. 148, 182
- Turkey, restructuring 32
- UK 33
 - administrative and bureaucratic tools 164–6
 - autonomy in local government 77
 - and climate change 173–4
 - Comprehensive Spending Review 23
 - Control of Pollution Act 159
 - DEFRA (Department of the Environment, Food, and Rural Affairs) 161, 166, 167, 169, 172, 173–423
 - EAC (Environmental Audit Committee) 161, 162–3, 165, 166, 167–8, 171–2

- Environment Cabinet Committee 161, 165, 169
- environmental performance 169
- environmental policy
under the Conservatives 1990–97 159–61
under Labour 1997–2007 161–3
- EPAs (environmental policy appraisals) 160, 162, 168, 171
- EPI 157–77
evolution of system 158
modes of governance 163–4
regional EPI in north west England 49–50
studies on 20, 21, 23
foot and mouth 164, 173
foreign policy 157
green budgeting 166–7
National Environmental Policy 1970–90 158–9
policy appraisal system 168–9
RIAs (regulatory impact assessments) 162, 168–9
SEA (strategic environmental assessment) 168, 169
spending reviews 163, 167
strategies and/or strategy developing processes 167–8
sustainable development 162, 163
Sustainable Development Commission (SDC) 165, 166, 167, 168
- UN World Summit on Sustainable Development 54
- Underdal, A. 201
UNESCAP 58–9, 70
Ürge Vorsatz, D. 184, 188, 193
Urquijo Zamora, S. 72
US, study on EPI 21, 24
- Valentin, A. 125
Van der Brugge, R. 72
vertical integration 26, 33, 36, 38, 44, 45, 46–7, 51, 66
Volkery, A. 18, 25, 29, 116, 181
voluntary agreements 6
von Weisäcker, E. 126
- Wandèn, S. 35
Warford, J. 1
waste sector 139, 141
WCED 9, 90, 94
Weale, A. 160
Webber, M. 79
welfare state 78
Willke, H. 89
Windolf, P. 150
Woodhouse, E.J. 83
World Bank 1, 32, 57
Wurzel, R.K.W. 21, 22
- Young, S.C. 168
- Zaccai, E. 73
zero growth option 46
Zimmermann, K. 97
Zito, A. 182