

---

# Index

---

- acid rain
  - see also* transboundary pollution
  - Asia 265–266, 276–277
  - China 277
  - Europe 263, 295
  - impacts of 276–277
  - India 276
  - North-East Asia 295
- Administrative Committee on Coordination 391
- Africa
  - African Ministerial Conferences on the Environment (AMCEN) 257, 338
  - biodiversity 260
  - combating desertification 260
  - Campfire programme, Zimbabwe 336
  - conflicts 323, 331–332, 335
  - deforestation 323
  - desertification 260, 322–323
  - effects of globalization 324
  - Inter-Governmental Authority on Development (IGAD) 331–334
  - Inter-State Committee for Drought Control (CILSS) 327–331
  - Intergovernmental Authority on Development (IGAD) 265
  - land reforms 326, 338, 339
  - political weakness 337–338
  - property rights 325–326
  - Protocol on Shared Watercourse Systems 261
  - refugees 323–324
  - regional organizations 322–340
  - role of regional institutions 339
  - South Africa, economic power 324, 334, 336–337
  - Southern Africa Development Community (SADC) 334–337
  - Southern Africa environmental problems 335
  - Zambezi Action Plan 404, 408
- Agenda 21 139, 220, 258, 345, 347
- child protection measures 412
- creation of CSD 358, 378, 379
- CSD's monitoring role 391, 395
- implementation of 381, 382–385, 390, 392, 393
- negotiation of 4
- participation of NGOs 386
- review of 382
- thematic clusters 380
- UNEP's mandate 358
- Agreement on Straddling Fish Stocks and Highly Migratory Fish Stocks 432
- agriculture
  - biophysical constraints 244–245
  - farmers in developing countries 234
  - farm subsidies 233–234, 239

- Japan 248, 249
- small farmers 246–247
- soil constraints 244–245
- Taiwan 248
- trade liberalization 232–235
- air pollution
  - see also* acid rain, transboundary pollution
  - cleaner industrial production 315
  - Central and Eastern Europe 302–304
- Amazonia
  - rubber tappers 92
  - Treaty of Amazon Cooperation 261
- Anacostia Watershed Society 91
- Antarctic and Southern Oceans Coalition 93
- Aral Sea Basin Unit 405
- Asia
  - acid rain 265–266, 276–277
  - Agreement on Cooperation for Sustainable Development of Mekong River Basin 261
  - Asia Regional Cooperation on Energy Efficiency Standards and Labelling 290
  - dependence on fossil fuels 273–276
  - Economic and Social Commission for Asia and the Pacific (ESCAP) 286
  - economic growth 111
  - energy pricing 283–284
  - energy resources 275, 291–296
  - energy sector development 111–113
  - energy-security-environment nexus 274–280
  - food security 223–249
  - greenhouse gas emissions 277–278
  - haze problems 265
  - hydro power potential 291
  - illiteracy 242
  - market forces 281–283
  - market liberalization 272–274
  - Mekong River Commission 261
  - Mekong River project 404
  - natural gas resources 291, 292, 293–294, 295–296
  - non-governmental organizations (NGOs) 109–126
  - oil insecurity 276
  - oil resources 296
  - population 272
  - power sector funding 273, 284–285
  - primary generating sources 278
  - projected GDP 272
  - projected growth in energy use 271, 272
  - regional energy initiatives 286–296
  - regional energy policy framework 283–286
  - rural migration 242–243
  - rural poverty 241–244
  - soil constraints 245
  - traditional medicine 102–103
  - transborder resources 281
  - transboundary pollution 281
- Asia-Pacific Economic Cooperation (APEC) 286–290
  - Energy Principles 289
  - Energy Working Group 287, 288, 290
- Asia-Pacific Energy Research Centre 290
- Asian Development Bank (ADB)
  - biodiversity efforts 260
  - funding Asian power sector 273
  - links with NGOs 123–124
  - Meralco Distribution Project 124
  - Three Gorges Dam 116
- Asian Energy Institute 117
- Association of South-East Asian Nations (ASEAN) 292–294
  - biological diversity 259–260
  - Cooperation Plan on Transboundary Pollution 265
  - databases 263
  - Energy Business Forum 293
  - Free Trade Area 287, 292
  - legislation standardization 263
  - Medium-Term Programme of Action on Energy Cooperation 293
  - toxic waste management 262
- Baltic Sea
  - Coalition Green Baltic 305
  - Helsinki Convention on Protection of the Baltic Sea (HELCOM) 305
  - pollution 304–305
- Bangladesh
  - natural gas resources 291, 292
  - rural poverty 241
- Basel Convention 96, 314, 364
- Beijing Energy Efficiency Centre 114, 186, 197–198
- biomass
  - biomass integrated gasifier/gas turbine 73
  - markets for 181
  - use as energy source 72–73
  - use in Asia 111–112

Boutros-Ghali, Boutros 396

**Brazil**

- Amazonian rubber tappers 92
- biomass integrated gasifier/gas turbine 73
- carbon emissions 72
- Curitiba transport system 48–51
- ecological capital 51–54
- energy policy 26, 30, 44–45
- pollution control in Rio 45–48
- São Paulo sewerage system 55–57
- use of ethanol 72

World Bank lending policy 144

Brent Spar campaign 98–100

Bund für Umwelt und Naturschutz  
(Germany) 149

Cairns Group 249

Calvalcanti, Henrique 381

carbon emissions 67–68, 93–94

cellular telephones 71

Central American Commission for

Environment and Development 262,  
263, 264, 266

Central American Inter-Parliamentary  
Commission on the Environment  
262

Central and Eastern Europe

*see also* Europe

aid to 317–318

air pollution 302–304

Baltic Sea pollution 304–305

cleaner industrial production 315–316

Council for Mutual Economic Assistance  
(COMECON) 302

energy conservation 311–313

energy use 309–310

Environment for Europe process  
305–307

Environmental Action Plan 306

environmental problems 301–302,  
308–309

European Union membership 307–308

nuclear power 310–311

Poland Hungary Assistance for

Reconstruction of Economy

(PHARE) programme 306–307, 312

renewable energy sources 310

toxic waste 314–315

trade with 318

waste minimization 313–316

Centre for Science and Environment,

carbon production estimates 93–94

CEREC Principles 100–101

**China**

acid rain 277

Beijing Energy Efficiency Centre 114,  
186, 197–198

clean coal technologies 295

electricity generating capacity 271

energy efficiency 279

energy policy 22–39

energy pricing 283

food security 210, 228

Green Lighting Programme 197–198

greenhouse gas emissions 277–278

oil imports 274

power sector funding 273

Professional Association for China's

Environment 117

State Development Planning Commission  
114

Three Gorges Dam 26, 34–35, 115–116

use of coal 23, 276

Xiaolangdi Dam 116

CILSS *see* Inter-State Committee for  
Drought Control

**civil society**

*see also* international politics

Forum of Civil Society 135

fragmentation of 139–142

Hegelian concept 139–140

international environmental politics  
133–142

power shift away from states 137–139

role in environmental management  
20–21, 58–60, 428–429

role in global governance 83–84

role of NGOs 130–157

UN People's Assembly 135

Climate Action Network (US) 141

Climate Network 141

**climate change**

carbon production estimates 93–94

CFC campaign 148

Intergovernmental Panel on Climate  
Change (IPCC) 139, 194

Montreal Protocol 77, 96–97, 134, 138,  
143, 259, 400, 413, 414

UNEP's role 364, 365

role of regional institutions 260

UN Framework Convention on Climate  
Change (UNFCCC) 77–78, 154–155,  
188, 414

Kyoto negotiations 259

- Club du Sahel 328–331
- coal
- clean technologies 24–25
  - pollution displacement 401–402
  - use in China 23, 276
  - use in India 23, 33, 276
- Coalition Green Baltic 305
- Commission on Global Governance 135
- Commission on Sustainable Development (CSD)
- Agenda 21 policing role 347
  - agenda-setting 388–390
  - competition with UNEP 359, 365, 370, 394
  - Comprehensive Freshwater Assessment 385, 390
  - coordinating role 391–392
  - coordination with World Bank 417
  - creation of 345, 358, 378, 379–380
  - critical assessment 388–392
  - delegates 385–386
  - effectiveness of 383–387
  - fifth session 382, 385
  - first session 380–381
  - fourth session 382
  - future recommendations 394–396
  - history of 379–383
  - implementation of Agenda 21 382–385
  - integration in UN system 391–392
  - Intergovernmental Panel on Forests 381–382, 385, 388, 390
  - lack of agenda 368
  - links with NGOs 131
  - mandate 415–416, 417, 420–421, 438
  - membership 380
  - methodology 382
  - mobilizing political will 396
  - national reporting 383–384, 393
  - North-South schism 393, 395–396
  - participation of NGOs 386–387
  - partnership building 386–387
  - policy guidance 385–386
  - programme of work 380
  - responsibilities 378–379
  - responsibility for UNEP agenda 360, 363
  - role of NGOs 145
  - second session 381, 385
  - Strategic Approach to Freshwater Management 390
  - strengths 392–393
  - third session 381–382, 384
  - weaknesses 393–394, 420–421
- Convention on Biological Diversity 259–260, 364
- Convention on International Trade in Endangered Species (CITES) 96, 102, 141
- UNEP's role 364
- Convention on Long-range Transboundary Air Pollution (LRTAP) 194, 197, 303–304, 370
- role of regional institutions 260
- Convention on Non-navigational Use of Shared International Watercourses 213, 220
- cooperation theory 351–352
- Council for Mutual Economic Assistance (COMECON) 302
- Council of Europe 302
- Curitiba
- ecological capital 51–54
  - transport system 48–51
- Czechoslovakia, Danube River dispute 261, 309
- desertification
- Africa 322–323
  - AMCEN Committee on Deserts and Arid Lands 260
  - Club du Sahel 328–331
  - Inter-Governmental Authority on Development (IGAD) 265, 331–334
  - Inter-State Committee for Drought Control (CILSS) 327–331
  - Sahara and Sahel Observatory 333
  - Sahel 327
  - tree planting 244
  - UN Convention to Combat Desertification 260, 333
- developing countries
- food security 171, 228–230
  - GDP per capita 66–67
  - Group of 77 383, 393
  - national reporting 383–384
  - role at Kyoto 259
  - role of UNDP 414–415
  - technological leapfrogging 19, 20, 71, 74, 415
  - obstacles to 78
- Dobris Assessment 306
- Dowdeswell, Elizabeth 357, 360
- management style 362
- Dublin Conference 205, 209, 215, 218, 219

- Earth Summit *see* UN Conference on Environment and Development (UNCED)
- Eastern Europe *see* Central and Eastern Europe
- Economic and Social Commission for Asia and the Pacific (ESCAP) 286
- Economic and Social Council (ECOSOC) 380, 393–394
- economic forces  
    *see also* market forces  
    role in environmental management 97–101
- Energy Charter Treaty 311
- energy intensity 29
- energy policy  
    Brazil 26, 30, 44–45  
    China 22–39  
    efficient development 36–38  
    environmental responsiveness 34–36  
    India 22–39  
    market-led systems 30–34  
    performance criteria 24–25  
    state-led systems 25–30  
    United States 30, 31, 36
- energy use  
    1995 figures 177  
    Asia 111–113  
    basic human needs 187  
    biomass 72–73  
    capital funding 184–185  
    Central and Eastern Europe 309–310  
    conflict with environmental sustainability 430  
    consumption levels 78  
    creating environmental problems 64–65  
    critical loads 195, 197, 303–304  
    demand for energy 176–180  
    demand-side management 313  
    deregulation of European market 154  
    development in Asia 111–113  
    Energy Market 180–199  
    energy conservation 311–313  
    energy glut 168  
    energy planning 190  
    energy supply infrastructure 184  
    energy-efficient technologies 184  
    environmental problematique 168  
    fossil fuels in Asia 273–276  
    fuel type 177  
    full cost pricing 189  
    intensity 66–71  
    international regulation 188  
    knowledge/market matrix 196  
    market forces 187–199, 281–283  
    national income accounts 188–189  
    photovoltaics 73–74  
    pricing 189, 283–284  
    product life-cycle accounting 190  
    projections 180, 182–183, 271, 272  
    rapid industrialization 176  
    regional 177  
    regional governance 280–286  
    regulations and standards 285  
    regulatory authorities 186  
    relationship with ecology 187–188  
    role of epistemic communities 193–201  
    role of NGOs 109–126  
    supply-side management 313  
    sustainability information 190–191  
    sustainability taxes 189–190  
    sustainable 175–176, 191–199  
    trends in 177–179
- Environment for Europe process 305–307
- Environment Protection Agency (US) 197
- Environmental Programme for Europe 258
- environmental management  
    bottom-up approach 439  
    competition for public attention 428–429  
    economic forces 97–101  
    energy production 430  
    future prospects 427–441  
    gaps in global coverage 415–418  
    global governance 431  
    globalization 418–420  
    institutional overload 418, 422  
    intergovernmental organizations 411–424  
    international cooperation 427–441  
    lack of coherence 359  
    market forces 43, 168–173, 431  
    pollution displacement 401–403  
    problems encountered 64–65  
    regional institutions 431–432  
    role of civil society 20–21, 58–60, 429–430  
    role of NGOs 83–89, 104–105, 124–126, 155–157, 429–430  
    role of states 15–21, 25–39, 42–45, 57–60, 76–78  
    role of United Nations 6–7, 19–21, 38, 39, 59–60, 170, 173, 428, 432–438  
    role of World Bank 408–409  
    sustainability perspective 169  
    technological-fix perspective 168–169  
    upward harmonization 401–403, 417

- environmental NGOs *see* non-governmental organizations (NGOs)
- epistemic communities 193–201
- Estonia, energy efficiency projects 312
- ethanol (ethyl alcohol) 72–73
- Europe  
*see also* Central and Eastern Europe, European Union  
 acid rain 263, 295  
 Conference of Environmental Ministers 257–258, 263  
 Council of Europe 302  
 effectiveness of regional institutions 264–265  
 Environment for Europe process 305–307  
 Environmental Action Plan 306  
 Environmental Programme for Europe 258  
 European Economic Community 302  
 solving acid rain problem 263  
 water supply 205  
 European Air Chemistry Network 263  
 European Economic Community 302  
 European Monitoring and Evaluation Programme (EMEP) 139, 303, 363–364, 370  
 European Union  
*see also* Europe  
*acquis communautaire* 307–308  
 Danube River dispute 261–262, 309  
 environmental initiatives 267  
 environmental protection legislation 134  
 farm subsidies 233–234, 239  
 global conventions 259  
 new member states 307–308  
 role at Kyoto 259  
 Thermie Programme 311–312  
 trade with Central and Eastern Europe 318  
 world grain market 232
- Farmer-Scientist Partnership for Development (Philippines) 248
- FEEMA (Fundação Estadual de Engenharia do Meio Ambiente) 45–48
- Food and Agriculture Organization (FAO)  
 competition with UNEP 359  
 deforestation in Africa 323  
 environmental activities 414  
 food price movements 228  
 food production/demand trends 225–228
- food trade balances 231  
 mandate 412  
 model for World Environment Organization 421
- food security  
 agricultural trade liberalization 232–235  
 Asia 223–249  
 biophysical constraints 244–245  
 Cairns Group 249  
 China 210, 228  
 developing countries 228–230  
 domestic/international links 248–249  
 farmers in developing countries 234  
 food availability 228–230  
 food price movements 228  
 food production/demand trends 225–228  
 food trade balances 231–232  
 food-energy deficiency 229  
 GATT Uruguay Round 223, 230, 232–237, 240, 249  
 grain self-sufficiency 229  
 institutional constraints 245–246  
 Inter-Governmental Authority on Development (IGAD) 265  
 international trade 223–224  
 market forces 230–235, 239–241  
 market participation 247–248  
 measures to promote 246–249  
 non-market constraints 241–246  
 partnerships 248  
 Philippines 235–241  
 public investment 247–248  
 role of small farmers 246–247  
 Rome Declaration 223  
 rural migration 242–243  
 rural poverty 241–244  
   reduction 244  
 water supply 209–211, 218–219  
 World Food Programme 413  
 World Food Summit 223–224  
 World Trade Organization 223, 235
- forests  
 deforestation in Africa 323  
 Forest Principles 4, 378, 383  
 Intergovernmental Panel on Forests 381–382, 385, 388, 390  
 need for global agreement 431
- fossil fuels  
*see also* coal  
 environmental problems 64–66, 75  
 markets for 181  
 use in Asia 273–276

fresh water *see* water supply

Friends of the Earth 92, 94, 149

CFC campaign 148

Montreal Protocol 97, 138

Three Gorges Dam 116

whaling campaign 103

Gechev, Rumen 382

General Agreement on Tariffs and Trade  
(GATT), Uruguay Round 171, 223,  
230, 232–237, 240, 249

key features 233

Global Climate Coalition (US) 93, 155

Global Environment Facility (GEF) 359,  
400, 403, 413

activities 414

biomass integrated gasifier/gas turbine  
73

campaign against 119

role of NGOs 145

Small Grants Programme 123

Global Environment Monitoring System  
(GEMS) 139, 363

Global Environmental Organization *see*  
World Environment Organization

Green Belt movement, Kenya 91–92

greenhouse gases 154–155, 277–278

emission levels 77–78

role of regional institutions 260

sustainability taxes 189–190

Greenpeace 149, 150

1994 budget 92

Brent Spar campaign 98–100

CFC campaign 144–145, 148

credibility 94

HELCOM 305

links with Asian NGOs 119

Montreal Protocol 138

public relations activities 145–146

seal hunting campaign 103–104

toxic waste campaign 95–96, 314–315

whaling campaign 103, 147, 148

Hammarskjöld, Dag 350

Helsinki Convention on Protection of the  
Baltic Sea (HELCOM) 305

Helsinki Protocol 303

Hungary, Danube River dispute 261–262,  
309

hydro power

Danube River dispute 261, 309

ecological impacts 279

environmental responsiveness 34–35

Narmada Dam 85, 115

potential of Himalayas 291

social costs 279

Three Gorges Dam 26, 34–35, 115–116

use in Asia 278

World Bank funding 406

Xiaolangdi Dam 116

India

acid rain 276

energy efficiency 279

energy policy 22–39

energy pricing 283, 284

Narmada Dam 85, 115

oil imports 274

rural migration 243

rural poverty 241

Tata Energy Research Institute (TERI)  
114, 117

use of coal 276

Indonesia

oil imports 274

Prokasih programme 122

Indus Water Treaty 404, 405

Inter-Agency Committee on Sustainable  
Development 384–385, 391–392, 394

Inter-American Programme of Action for  
Environmental Protection 258, 264

Inter-Governmental Authority on  
Development (IGAD) 265, 331–334  
links with CILSS 333

Inter-State Committee for Drought Control  
(CILSS) 327–331

links with IGAD 333

Intergovernmental Panel on Climate  
Change (IPCC) 139, 194

Intergovernmental Panel on Forests  
381–382, 385, 388, 390

International Atomic Energy Agency  
(IAEA) 414

International Bank for Reconstruction and  
Development (IBRD) 399–400

*see also* World Bank

International Development Association  
(IDA) 399–400

*see also* World Bank

International Fund for Agricultural  
Development (IFAD) 414

International Fund for Animal Welfare 103

International Institute for Energy  
Conservation 290

- International Labour Organization (ILO) 413, 414
- International Maritime Organization (IMO) 414
- International Monetary Fund 414
- International Programme on Chemical Safety 413
- International Referral System (INFOTERRA) 363
- International Register of Potentially Toxic Chemicals (IRPTC) 363
- International Union for the Conservation of Nature (IUCN) 146
- International Whaling Commission 146
- international cooperation 2–7
  - ISO 14000 188
- international non-governmental organizations (INGOs) *see* non-governmental organizations (NGOs)
- international organizations
  - see also* international politics
  - evaluation 346–353
- international politics
  - see also* states
  - cooperation theory 351–352
  - cosmopolitan democracy 135–136
  - definitions 346–347
  - enforcement 352–353
  - free-riding states 133–134
  - functionalist perspective 348–350
  - hegemony 347–353
  - international organizations 346–353
  - liberal theory 132, 141, 147–148, 150–151, 155–157
  - liberal-democratic internationalist model 135
  - neofunctionalist perspective 350–351
  - radical communitarianism 136–137
  - realist perspective 347–348
  - regional institutions 255–269
  - role of NGOs 131–142
  - water supply 217–218
- Japan
  - acid deposition monitoring 295
  - agricultural development 248, 249
  - nuclear power 279
  - role at Kyoto 259
- Kenya
  - Green Belt movement 91–92
  - UNEP headquarters 361
- Kyoto Protocol 77–78, 154, 188
- LRTAP *see* Convention on Long-range Transboundary Air Pollution
- Mar del Plata Conference 205, 213, 215, 217, 218, 219
- market forces
  - energy use 187–199, 281–283
  - environmental management 431
  - food security 230–235, 239–241
  - globalization 281–283, 419–420
  - market failures 281–283, 436–437
  - role in environmental management 43, 168–173
  - water supply 215–217
- Mendes, Chico 92
- Meralco Distribution Project, Philippines 124
- Montreal Protocol 77, 96–97, 134, 138, 143, 259, 400, 413, 414
  - UNEP's role 364, 365
- Mozambique
  - biodiversity infringements 338–339
  - land reforms 325–326, 338
  - overexploitation of natural resources 324, 336–337
- Narmada Dam 85, 115
- nation-states *see* states
- Natuna gas fields 293–294
- Natural Resources Defense Council (US) 92, 148, 149
- networks
  - Asian NGOs 285–286
  - BALLERINA 264
  - Central American Commission for Environment and Development 264, 266
  - Environment and Natural Resources Networking programme 263
  - epistemic communities 200–201
  - fostered by regional institutions 268
  - non-governmental organizations (NGOs) 92–93, 116–117, 118–120, 145
  - Sustainable Development Networking Programme 413
- non-governmental organizations (NGOs)
  - accountability 94
  - advocacy organizations 142–146
  - agents of civil society 130, 435–436



non-governmental organizations (NGOs)  
(cont.)

- Asian energy sector development 109–126
  - Asian power sector 285–286
  - campaigning in Asia 85
  - characteristics of 121
  - competence 148–151
  - definition of 89–92
  - energy use watchdogs 186
  - engaging economic forces 97–101
  - engaging social mores 101–104
  - financial power 92
  - fragmentation of civil society 139–142
  - fundamentalist 152–154
  - fundraising 149–150
  - greater empowerment 435–436
  - implementation of Agenda 21 386
  - influence on states 94–97, 138
  - levels of participation 148–151
  - limitations of 117–118
  - links with aid agencies 123–124, 131
  - links with governments 120–122
  - links with private sector 122
  - links with scientific community 122–123
  - lobbying 114–116
  - mediating 116–117
  - Montreal Protocol 96–97, 138
  - networking 92–93, 116–117, 118–120, 145
  - participation in CSD activities 386–387
  - participation in UN system 436
  - participation in UNCED 130, 131
  - political spectrum 90
  - pragmatic 152–154
  - promoting food security 246, 248
  - relations with economic actors 151–155
  - relations with regional institutions 266, 268
  - research-oriented 113–114
  - role in environmental management 83–89, 104–105, 124–126, 155–157, 429–430
  - role in international politics 131–142
  - schism between Northern and Southern 93–94, 141
  - service organizations 142–143, 146–148
  - types of 142–145
  - use of new communications technology 145
  - World Bank structural adjustment loans 407
- North Korea, nuclear power 295

North-East Asia Regional Environment  
Programme 294, 295

## Norway

- Brent Spar campaign 99–100
- water supply 205

## nuclear power

- Central and Eastern Europe 310–311
- International Atomic Energy Agency (IAEA) 414
- Japan 279
- North Korea 295
- use in Asia 278–279

Organization of American States (OAS),  
Inter-American Programme of  
Action for Environmental Protection  
258Oslo and Paris Commission (OSPARCOM)  
99ozone depletion *see* climate change,  
greenhouse gases

## Philippines

- agricultural modernization 238
- Farmer-Scientist Partnership for Development 248
- food security 171, 235–241
- grain production 236
- illiteracy 242
- market forces 239–241
- Meralco Distribution Project 124
- public expenditure 238–239
- rural infrastructure 239–240
- rural migration 242–243
- World Bank structural adjustment programme 237

## photovoltaics 73–74

Poland Hungary Assistance for  
Reconstruction of Economy  
(PHARE) programme 306–307,  
312

## pollution

- see also* acid rain, air pollution, climate change, water pollution
- critical loads 195, 197, 303–304
- global 76
- local 74–75
- regional 75–76
- Rio de Janeiro 45–48

## population

- Asia 272
- forecasts 167
- refugees in Africa 323

- poverty  
     *see also* food security  
     Asia 241–244  
     Bangladesh 241  
     India 241  
     rural 241–244  
     rural poverty reduction 244  
     South Korea 243
- power supply  
     faulty distribution 28–29  
     inefficiency 29–30
- Professional Association for China's Environment 117
- progress ratio 74–75
- Prokasih programme, Indonesia 122
- Promotion of Chemical Safety programme 413
- Promotion of Environmental Health programme 413
- Ramsar Convention on Wetlands 146
- Razali, Ismail 380, 395
- regional institutions 255–269  
     Africa 322–340  
     Asian energy initiatives 286–296  
     Baltic Sea pollution 304–305  
     conflict mediation 332–333  
     cooperation in Central and Eastern Europe 301–318  
     databases 263  
     definition of 256  
     dispute mediation 261–262  
     effectiveness 255–256, 264–266  
     Environment for Europe process 305–307  
     environmental governance of energy markets 280–286  
     European air pollution 302–304  
     expectations of 340  
     fostering networking 268  
     global conventions 258–260  
     high-level forums 257–258  
     regional agencies 256  
     regional arrangements 256–257  
     regional initiatives 260–261  
     relations with other actors 266–267  
     role in environmental management 257–264, 431–432  
     role of United Nations 437–438  
     support services 262–264  
     sustainable development concept 327  
     technical assistance 262  
     UN Charter 255
- Rio Conference *see* UN Conference on Environment and Development (UNCED)
- Rio de Janeiro, pollution control 45–48
- Rio Declaration 4, 378, 383
- Russia  
     air pollution 303  
     decentralization of heat supply 310  
     energy savings 310  
     Sakhalin oil and gas fields 296  
     waste minimization 313–314  
     wind power 310
- Sahara and Sahel Observatory 333
- Sahel  
     Club du Sahel 328–331  
     desertification 327  
     Praia Conference 329, 330  
     Segou Round Table 329
- Sakhalin oil and gas fields 296
- sanitation *see* water supply
- São Paulo, sewerage system 55–57
- scientific community  
     links with NGOs 122–123  
     role in Asia 285
- Sea Shepherd Conservation Society 103
- Senegal  
     decentralization process 330  
     land fertility 91
- sewerage *see* water supply
- Sierra Club 148
- Slovakia  
     Danube River dispute 261–262, 309  
     energy efficiency projects 312
- Sofia Protocol 303
- Somalia, peace negotiations 332
- South Africa, economic power 324, 334, 336–337
- South America  
     Treaty of Amazon Cooperation 261  
     water supply 205
- South Asia Association for Regional Cooperation (SAARC) 290–292
- South Asia Preferential Trading Agreement 287, 292
- South Asian Cooperative Environment Programme 260
- South Korea  
     agricultural development 249  
     rural poverty 243
- Southern Africa Development Community (SADC) 334–337

- State Development Planning Commission (China) 114
- state-society synergy 18–19, 44–45, 58–60
- states
- see also* international politics
  - autonomy of 141–142
  - common interests 348
  - free-riding 133–134
  - globalization 418–420
  - growth in democracy 140
  - influenced by NGOs 94–97, 138
  - international environmental politics 133–142
  - power shift to civil society 137–139
  - role in environmental management 15–21, 25–39, 42–45, 57–60, 76–78
- steel industry 71–72
- Steyer, Kurt 304
- Stockholm Conference 3, 92, 137, 197, 326–327, 345
- formation of UNEP 355
- Strong, Maurice 357
- Sudan, peace negotiations 332
- sustainability knowledge 175, 191–199
- Sustainable Development Networking Programme 413
- Taiwan, agricultural development 248
- Tata Energy Research Institute (TERI) 114, 117
- technological leapfrogging 19, 20, 71, 74, 415
- obstacles to 78
- technology transfer 197–198, 263–264, 311–312, 435
- third world cities
- Curitiba 48–54
  - sustainability 42–45, 57–58
- Three Gorges Dam 26, 34–35, 115–116
- Tolba, Mostafa 350, 357
- Commission on Sustainable Development 382
  - leadership 362, 365, 369, 416
- Töpfer, Klaus 357, 362, 382
- Torrey Canyon* disaster 3
- toxic waste
- African initiatives 262
  - ASEAN initiatives 262
  - Basel Convention 96, 314, 364
  - Central American initiatives 262
  - Central and Eastern Europe 314–315
  - prevention of international trade 95–96
  - transboundary pollution 2, 94
  - acid rain in Asia 276–277
  - acid rain in Europe 263
  - air pollution in Europe 302–304
  - ASEAN Cooperation Plan on Transboundary Pollution 265
  - Asia 281
  - Baltic Sea 304–305
  - Convention on Long-range Transboundary Air Pollution (LRTAP) 194, 197, 303–304, 370
  - European Monitoring and Evaluation Programme (EMEP) 139
  - haze in South-East Asia 265
  - role of regional institutions 260
  - water resources 404
  - World Bank mechanisms 403–406
- transnational criminal organizations 142–143
- transport systems, Curitiba 48–51
- Turkey, water supply 205
- UN Conference on Environment and Development (UNCED) 84, 93, 122, 145, 173, 327, 345
- “African Common Position” report 258
  - agreements not implemented 382
  - creation of CSD 378, 379
  - dissent among NGOs 141
  - follow-up by UN system 391
  - national reporting 383–384, 393
  - participation of NGOs 130, 131
  - participation of UNICEF 412
  - role of CSD 378–379
  - scope of 4–5
  - UNEP’s mandate 358
  - water supply 217, 218
- UN Educational, Scientific, and Cultural Organization (UNESCO) 413–414
- UN Environment Programme (UNEP) 355–372
- 1994 budget 92
  - absence of clear mission 359–360
  - accomplishments 416
  - African biological diversity 338
  - agenda-setting 390
  - Aral Sea pollution 404
  - Brundtland Commission report 367
  - CFC campaign 148
  - challenges facing 355–356, 357–362
  - cleaner industrial production 315
  - communications facilities 371

- competing organizations 358–359
- competition with CSD 359, 370, 394
- coordination with World Bank 417
- disseminating environmental
  - information 363–364, 366
- Earthwatch programme 196
- Environment and Natural Resources
  - Networking programme 263
- Environmental Management Group 367
- Executive Director 357
- expansion of powers 431
- financial status 356, 360–361, 370–371
- formation of 3, 355
- Global Environment Facility (GEF) 413, 414
- Global Environment Monitoring System (GEMS) 139, 363
- Governing Council 357
- inadequacies 420
- initiating multilateral treaties 134
- International Referral System (INFOTERRA) 363
- International Register of Potentially Toxic Chemicals (IRPTC) 363
- international catalyst 364–365, 366–368
- international environmental agenda 357–358
- location 357, 361, 371
- management difficulties 361–362
- mandate 356, 358, 371–372, 418, 438
- Montreal Protocol 364, 365
- negotiations manager 366
- options for change 365–372
- organizational crisis 357–362
- persistent organic pollutants 364
- role of 362–369
- size 356
- Tolba's leadership 350, 357, 362, 365, 369, 416
- water supply data 366
- World Environment Organization 368–369
- Zambezi Action Plan 404, 408
- UN Environmental Management
  - Group 367
- UN Framework Convention on Climate Change (UNFCCC) 77–78, 154–155, 188, 414
- Kyoto negotiations 259
- UN Industrial Development Organization (UNIDO) 359
- UN Office of Internal Oversight Services
  - 361–362, 367
- UN Development Programme (UNDP)
  - environmental activities 412–413, 414–415
- Global Environment Facility (GEF) 413, 414
- Mekong River project 404
- Montreal Protocol 413
- Sustainable Development Networking
  - Programme 413
- United Kingdom
  - Brent Spar campaign 99–100
  - delay in reducing CFCs 142
  - Non-Fossil Fuel Obligation 76–77
  - opposition to CSD 380
- United Nations Children's Fund (UNICEF) 412
- United Nations
  - Administrative Committee on
    - Coordination 391
  - capacity-building 434
  - democratization of system 135–136
  - diffusion of innovations 435
  - Division for Sustainable
    - Development 392
  - educating policy-makers 433
  - empowering NGOs 435–436
  - enhancing ecological sustainability 436–437
  - globalization 434
  - influencing governments 433–434
  - international cooperation 438–441
  - lack of coherence in environmental
    - management 359
  - links with NGOs 125–126
  - market failures 436–437
  - official development assistance target 389
  - People's Assembly 135
  - regional cooperation 437–438
  - relations with regional institutions 268
  - role in environmental management 6–7, 19–21, 38, 39, 59–60, 170, 173, 432–438
  - role of epistemic communities 199–201
  - Task Force on Environment and Human
    - Settlements 440
  - water supply problems 208
- United States
  - deregulation of electric utilities 193, 198–199
  - energy policy 30, 31, 36
  - farm subsidies 233–234, 239

- United States (cont.)
  - greenhouse gas emissions 277–278
  - Natural Resources Defense Council 92
  - opposition to CSD 380
  - role at Kyoto 259
  - “Trade not Aid” 324
  - “wise use” movement 93
  - world grain market 232
- water *see* hydro power, water pollution, water supply
- water pollution
  - Aral Sea 404–405
  - Baltic Sea 304–305
  - Convention on Non-navigational Use of Shared International Watercourses 213, 220
  - Indus Water Treaty 404, 405
  - Mekong River project 404
  - transboundary issues 404–405
  - Zambezi Action Plan 404, 408
- water supply
  - access to fresh water 167–168, 170–171, 208
  - basic water requirement (BWR) 213–214, 218
  - Comprehensive Freshwater Assessment 385, 390
  - conflicts over 212
  - CSD sectoral theme 390
  - distribution by continent 206
  - Dublin Conference 205, 209, 215, 218, 219
  - ecosystems 211–212
  - Europe 205
  - fisheries 211
  - food security 209–211, 218–219
  - health implications 207–209
  - hydrological cycle 211
  - infrastructure development 216
  - international politics 217–218
  - Mar del Plata Conference 205, 213, 215, 217, 218, 219
  - market forces 215–217
  - planning 219–220
  - problems of 204–205
  - projections 205–207
  - sanitation services 207–208
  - São Paulo sewerage system 55–57
  - UNEP data 366
- wildlife
  - Asian traditional medicine 102–103
  - bear gall bladders 102
  - Campfire programme, Zimbabwe 336
  - Convention on International Trade in Endangered Species (CITES) 96, 102, 364
  - overexploited in Mozambique 324
  - protection for elephants 141
  - seal hunting campaign 103–104
  - Southern Africa 335
  - whaling campaign 103
- Wolfensohn, James D. 399
- Women’s Caucus 387
- World Bank
  - Aral Sea pollution 404–405
  - Baltic Sea pollution 305
  - Bretton Woods creation 347
  - campaign to reform 93
  - Club du Sahel 328
  - competition with UNEP 359
  - coordination with CSD 417
  - coordination with UNEP 417
  - Environmental Programme for Europe 258
  - environmental agenda 363, 399–409
  - environmental assessments 402, 406–408
  - environmental effectiveness 416–417, 418
  - environmental mandate 430
  - food price movements 228
  - food trade balances 231
  - funding Asian power sector 273
  - funding criteria 78, 110, 144, 401–402
  - funding dam construction 406
  - funding environmental projects 400
  - future role 408–409
  - Global Environment Facility (GEF) 400, 403, 413, 414
  - global projects 403
  - Indus Water Treaty 404, 405
  - institutional review 409
  - links with NGOs 123, 131
  - model for World Environment Organization 421
  - Montreal Protocol 400
  - Narmada Dam project 115
  - Philippines structural adjustment programme 237
  - pollution displacement 401–403
  - reforms in India 32
  - regional projects 403
  - relations with regional institutions 266
  - structural adjustment loans 406–408
  - Three Gorges Dam 116

- transboundary issues 403–406
- upward harmonization 401–403, 417
- water resources 404–405
- World Business Council for Sustainable Development 152
- World Commission on Environment and Development (WCED) 327, 358
- World Environment Organization 368–369, 408, 418, 420–422, 424, 431
- World Food Programme 413
- World Food Summit 223–224
- World Health Organization (WHO) 413, 421
- World Meteorological Organization (WMO) 359, 414
- World Resources Institute 196
  - carbon production estimates 93
- World Trade Organization (WTO) 359, 414, 418, 423, 424
  - review of agricultural accord 249
- food security 223, 235
- World Water Congress 209
- Worldwatch Institute 196
- Worldwide Fund for Nature (WWF) 94
  - 1994 budget 92
  - Asian traditional medicine 102–103
  - Beijing Energy Efficiency Centre 197
  - Convention on International Trade in Endangered Species (CITES) 96
  - HELCOM 305
  - links with Asian NGOs 119–120
  - Three Gorges Dam 116
  - whaling campaign 103
  - World Bank structural adjustment loans 407
- Xiaolangdi Dam 116
- Zambezi Action Plan 404, 408
- Zimbabwe, Campfire programme 336