

---

# Index

---

- Abrams, L.C. 139  
accessibility of information 253, 264–8  
acid rain 301  
Adams, C. 277  
Adar, E. 173  
adverse selection 193–4  
African National Congress 289  
Agenda 21 303  
agriculture 77, 90–91, 94–5, 108–9  
    climate change and related socio-technical factors bringing challenges to 87–9  
    decision support systems (DSS)  
        future 89–90  
        model driven 77, 78–84  
        use of models for research and agricultural extension 84–7  
    life cycle assessment (LCA) 94, 95–100, 108  
        Australian grain industries 98–9  
        limitations 99–100  
        methodology 96  
        potential cleaner production benefits 100–104  
    restructuring supply chains 104–8  
Ahsen, A. 256, 257, 269  
AIDS 50  
Akao, Yoji 66  
alliances 193  
Allianz 277  
Ansoff, H.I. 40  
anthropocentrism 15–17  
Australia 151, 333  
    agriculture in 81, 85–7, 89, 93, 108–9  
        grain supply chain 94–5, 104–8  
        life cycle assessment (LCA) 98–9, 100, 108  
        restructuring supply chains 104–8  
    climate change and 88, 89, 93  
    sustainable reporting 214–15  
Austrian economics 190  
Axelrod, R.A. 223  
Bahrain 138  
    information technology in 138–9  
    knowledge creation in 140  
    research on knowledge creation and corporate sustainability 143–4  
        discussion and conclusion 147  
    results of study 144–7  
Bangladesh 300–301  
Belkaoui, A. 321  
benchmarking 81  
Benjamin, Alan 220  
Bhopal disaster 320  
Biswas, W.K. 98  
Blanke, M. 256, 257, 269  
Bonini, S.M.J. 51  
Boulding, Kenneth 301  
Braganza, A. 139  
Brosowski, J. 233  
Brundtland, Gro Harlem 302, 303, 306, 314, 327  
Buddhism 18  
built environment 113, 114–16  
    decision models 126–8  
        analytical hierarchy process (AHP) 128–32  
        decision framework 128–32  
        future directions and considerations 133–4  
    modernization theory  
        ecological 116–18  
        social impacts 119–21  
        sustainable 118  
    modernization theory and 118–19  
    sustainability indicators and metrics 121–2  
        economic indicators 122  
        environmental indicators 123  
        social indicators 123, 125  
business agreements 193  
business cooperation 193  
Carroll, Archie 283  
Cary, J. 105  
cement industry 319–20

- Chae, B. 139
- China 11, 313
- coal mining industry 58
  - corporate environmental sustainability management (CESM) 12–13, 19, 22–6, 30–32
  - comparative case-study enterprises 27–30
  - methodology of study 20–21
  - scope and limitations of study 21–2
  - environmental problems 12
  - foreign direct investment in 13
  - history and mythology 14
- Choo, A.S. 142
- Ciba Geigy 322
- Cicero 16
- cigarette industry 321
- climate change 11, 88, 89, 93, 98
- coal mining industry 57, 58–9, 74–5
- capturing sustainability concept 61–2
  - House of Quality (HOQ) model 66–7
  - House of Sustainability (HOS) model 67–74
  - role of HOS in achieving sustainability 74
  - sustainability issues 60–61
  - sustainable development dynamics 62–6
- Coalition for Environmentally Responsible Economies (Ceres) 290, 313
- competencies 333
- comprehensibility of information 253–4, 268–72
- computer software industry 322
- constructivism 20
- contracts 193
- cooperation 193
- corporate environmental sustainability management (CESM) 11, 30–32
- Chinese perspectives on 22–6
  - comparative case-study enterprises 27–30
  - development of corporate environmental paradigms 13–19
  - anthropocentrism 15–17
  - ecocentrism 17–19
  - sustaincentrism 19
  - methodology of study 20–21
  - scope and limitations of study 21–2
  - significance of 12–13
- corporate social responsibility (CSR) 1, 2, 192–4
- corporate sustainability 1, 2–3
- definitions 137
  - future directions 333, 337–8
  - plan and scope of book 3–8
  - see also* individual topics
- cotton industry 85–6
- Cox, S. 83
- CSR Europe 208, 240
- customization 220–25
- dairy industry 86–7
- Daoism 14, 18
- decision models 77, 78–84
- built environment 126–8
  - decision framework 128–32
  - future directions and considerations 133–4
  - dynamic models 78–9, 82–3
  - future of 89–90, 133–4
  - spatial models 79, 83–4
  - static models 78–9, 80–82
  - use of models for research and agricultural extension 84–7
- Denzin, N.K. 20
- DiPiazza, S.A. 240
- documents
- XML-based document engineering 230–31
- Donaldson, T. 283
- Dow Jones Sustainability Index (DJSI) 334–5
- dynamic models 78–9, 82–3
- Eccles, R.G. 240
- Eckersley, R. 15
- ecocentrism 17–19
- ecological modernization theory (EMT) 116–18
- economic sustainability and viability 184–5, 201–3
- definitions 189–90
  - file sharing counter-measures 176–80
  - profit maximization and 191

- single or triple bottom line 185–9
- spam counter-measures 167–70
- uncertainty and 190
- egocentrism 15, 16
- Egri, C.P. 18
- Ehrlich, Paul 306
- Elkington, John 214, 310, 311
- e-mail
  - online marketing 161–2
  - spam 161, 162, 163, 164, 180–81
  - counter-measures 164–5
  - economic sustainability of
    - counter-measures 167–70
  - model 165–7
- employees
  - social responsibility towards 194
- Enron 48
- environmental damage 297–8, 300–302, 324
  - climate change 11, 88, 89, 93, 98
  - ozone depletion 301
- Environmental Kuznets Curve (EKC) 306
- environmental reporting 207; *see also* reporting of corporate sustainability
- environmental responsibility
  - corporate sustainability and
    - government regulation and 196–9, 200–201
  - profitable types of
    - environmentally friendly behaviour 194–6
  - regulation of spillovers 199–200
- European Union (EU) 200
- expert systems 80, 81–2
  
- Fahlman, S. 165
- file sharing 161–2, 163, 170–73, 181
  - counter-measures 174
  - economic sustainability 176–80
  - model 174–6
- financial reporting
  - financial reporting taxonomies architecture 231–2
  - see also* reporting of corporate sustainability
- Franken, A. 139
- free markets 16
- Freeman, R.E. 282, 283
  
- Friedman, Milton 150
- Frooman, J. 284
- Frost, G. 277
- future directions for corporate sustainability 333, 337–8
  
- gambling 151, 152, 153, 156–7
- Gandhi, Mahatma 299
- Gates, Bill 165
- Gebauer, J. 251
- Geographic Information System (GIS) models 83
- Germany
  - sustainable reporting 214, 249–52, 278
  - discussion 275–8
  - research design for study 255–60
  - results of study 260–75
- Gladwin, T. 13, 17, 19
- Global 100
  - measuring corporate sustainability performance 336–7
- Global Reporting Initiative (GRI) 290, 323
  - measuring corporate sustainability performance 335–6
  - sustainable reporting guidelines 231, 290–91, 311–13
- globalization 121
- Gnutella 177
- Goodmail 165
- goods
  - social responsibility and sale of 193–4
- Gore, Al 11
- government regulation, *see* regulation
- Grant, R.M. 137, 139
- Gray, R.H. 326
- Gruar, C. 289
- Guba, E.G. 22, 23
  
- Halme, M. 14
- Hanigan, M.D. 83
- Hardin, Garret 301
- heuristic models 80, 81–2
- Hicks, John 189
- Hockerts, K. 141
- Hoechst 222
- Hood, A. 89
- Huberman, B.A. 173

- ICT, *see* information technology
- India 298
- coal mining industry 57, 58–9, 74–5
    - capturing sustainability concept 61–2
  - House of Quality (HOQ) model 66–7
  - House of Sustainability (HOS) model 67–74
    - role of HOS in achieving sustainability 74
    - sustainability issues 60–61
    - sustainable development dynamics 62–6
  - sustainable reporting 313–15
    - discussion and conclusion 323–7
    - method of study 315–16
    - outliers 320–22
    - results of study 316–21
    - sectoral performance 318–20
- individualization 224
- information asymmetry 195–6
- information reporting, *see* reporting of corporate sustainability
- information requirements of stakeholders 229–30
- information technology 83–4, 87–8, 241–2
  - architecture 235–9
  - Bahrain 138–9
  - sustainability reporting and 212–15
- Infosys 322
- input substitution 102–3
- Institute for Applied Ecology 222
- Intergovernmental Panel on Climate Change (IPCC) 11
- Internet 161
  - file sharing 161–2, 163, 170–73, 181
    - counter-measures 174
    - economic sustainability of counter-measures 176–80
    - model 174–6
  - online marketing 161–2
    - see also* spam
  - online reporting, *see* reporting of corporate sustainability
- Isenmann, R. 251
- Japan 301
- joint ventures 193
- Jones, K. 213
- Kaptein, M. 141
- Karpik, P.G. 321
- Kassas, M. 13
- Kauffman, S. 29
- Klein, M. 78
- knowledge
  - corporate sustainability and 141–2
    - discussion and conclusion 147
    - hypothesis on 142–3
    - research on 143–4
    - results of study 144–7
  - creation 139–41
- Knox, S. 289
- KPMG 325
- Kramer, M.R. 38, 48
- Laszlo, A. 142
- Laszlo, K.C. 142
- LEED certification system 113, 119, 123
- Lenz, C. 228, 229, 233, 251
- life cycle assessment (LCA) 94, 95–100, 108
  - Australian grain industries 98–9
  - limitations 99–100
  - methodology 96
  - potential cleaner production benefits 100–104
- Lincoln, Y.S. 20, 22, 23
- Loder, T. 165
- Lynch, T. 87
- McCown, R.L. 82
- McDonalds 45
- McMichael, A. 89, 90
- Madonna 174
- Mahon, J.F. 40, 51
- Marcus, A.A. 13
- Marrism, R. 203
- Martin, X. 142
- Massey University 310
- mathematical models 81
- Matthews, K.B. 85
- measuring corporate sustainability performance 334

- Dow Jones Sustainability Index (DJSI) 334–5
- Global 100 336–7
- Global Reporting Initiative (GRI) 335–6
- mechanism 15, 16
- media richness theory 292–3
- media synchronicity theory 293
- Mesterharm, M. 208
- metal industries 318–19
- Methlie, L.B. 78
- Miah, S.J. 82
- Milne, M.J. 326
- Milton, K. 14
- Mitchell, R.K. 282, 286, 288, 289
- modernization theory 118–19
  - ecological 116–18
  - social impacts 119–21
  - sustainable 118
- Monsanto 307
- Mukherjee, K. 61
- multi-criteria analysis 338
- Napster 174, 177
- Narayanaswamy, V. 98
- Netherlands
  - ecological modernization theory (EMT) in 117
- New Zealand 151, 195, 310
  - agriculture in 86–7
  - gambling problems in 157
- Nidumolu, R. 333
- nihilism 18
- Nike 326
- Nonaka, I. 140
- non-financial reporting 207
- Norway 301
- oil industry 321–2
- online file sharing, *see* file sharing
- online marketing 161–2; *see also* spam
- online reporting, *see* reporting of corporate sustainability
- O'Rourke, D. 326
- ozone depletion 301
- Parnell, J.A. 61, 62
- Pearce, David 303, 308
- peer-to-peer, *see* file sharing
- performance measurement, *see* measuring corporate sustainability performance
- personalization 224–5
- Pezzey, J. 303
- Pinfield, I. 18
- Plant, R.E. 82
- Polunin, N. 13
- population growth 301, 305–6
- Porter, M.E. 38, 41, 47, 48, 49
- Posner, Richard 192
- poverty 300
- Power, D.J. 78
- precision agriculture (PA) 101
- Preston, L. 283
- Priddey, C. 214
- prioritization matrix 44
- product modification 103–4
- profitability 310
  - profit maximization and economic sustainability 191
  - profitable types of environmentally friendly behaviour 194–6
- property rights 16
- Purser, R.E. 18
- Quaddus, M.A. 61
- quality management
  - House of Quality (HOQ) model 66–7
- rationality 16
- recycling 104
- regulation
  - environmental responsibility and 196–9, 200–201
  - spillovers 199–200
- Reinhardt, F.L. 48
- reporting of corporate sustainability 207–10, 239–42, 249–52, 278, 298, 308–13
  - advanced 227
  - financial reporting taxonomies architecture 231–2
  - GRI G3 sustainable reporting guidelines 231
  - ICT-architecture 235–9
  - process model used as underlying methodology 233–5
  - stakeholder analysis 228

- stakeholder information
  - requirements 229–30
- XBRL taxonomy for
  - sustainability reports 232–3
- XML-based document
  - engineering 230–31
- benefits of using Internet for 216–17
  - accessibility of information 264–8
  - comprehensibility of information 268–72
  - customization 220–25
  - efficiencies and strategic opportunities 217–20
  - stakeholder dialogue 254–5, 272–5
- Germany 214, 249–52, 278
  - discussion 275–8
  - research design for study 255–60
  - results of study 260–75
- identifying stakeholders for 282, 294
  - communication channels 292–4
  - framework 286–90
  - stakeholder-oriented content 290–92
- India 313–15
  - discussion and conclusion 323–7
  - method of study 315–16
  - outliers 320–22
  - results of study 316–21
  - sectoral performance 318–20
- Internet-supported 252
  - accessibility of information 253
  - comprehensibility of information 253–4
  - dialogue with stakeholders 254–5, 272–5
  - provision of information 252–3
- research design for study 255–60
- results of study 260, 316–21
  - accessibility of information 264–8
  - comprehensibility of information 268–72
  - dialogue with stakeholders 272–5
  - discussion 275–8
  - provision of information 260–64
- strategic implications 212
  - communication strategy 212
  - ICT capabilities 212–15
  - organization 215–16
- topics 261–4
- trends in 210–12
- Research Australia 37–8
- Riedacker, A. 98, 100
- Robinson, H.S. 141
- rules of thumb 80
- Russia
  - coal mining industry 58
- Sachs, Wolfgang 327
- sale of goods
  - social responsibility and 193–4
- Salomon, R. 142
- Sandborg, Vera 240
- Schneider, A. 333, 335, 337
- Schraml, T. 233
- Seymour, E.J. 107
- Sharkie, R. 137–8, 142
- Shim, J.P. 88
- Shrivastava, P. 14
- Simon, Herbert 164
- simulation models 82–3
- Singh, Manmohan 315
- Sinha, Yashwant 301
- SKYCITY 150–51
  - employment generation 156
  - flow of expenditure and income 153–4
  - gambling problems and 156–7
  - history 151–2
  - organization and role of the board 152
  - products and services 152–3
  - social responsibility 154–5, 157–8
- Smith, Adam 192, 310
- social changes
  - agriculture and 89
- social responsibility, corporate (CSR) 1, 2, 192–4
- South Africa 289
- spam 161, 162, 163, 164, 180–81
  - counter-measures 164–5
  - economic sustainability 167–70
  - model 165–7
- spatial models 79, 83–4
- spillovers
  - regulation of 199–200
- stakeholders 43, 137, 211
  - analysis 228
  - dialogue with 220–23, 225–7, 254–5, 272–5

- identifying stakeholders for
  - sustainable reporting 282, 294
  - communication channels 292–4
  - framework 286–90
  - stakeholder-oriented content 290–92
- information requirements 229–30
- stakeholder theory 282–5
- Stark, M. 13
- static models 78–9, 80–82
- statistical models 81
- steel industry 320–21
- stereotyping 224
- Stern Report 37
- Stone, N.S. 82
- strategic issues 37–8, 53–4
  - case study of Whole Foods Market 49–53
    - industry context 49–50
    - market-based actions 51–2
    - operational-based actions 53
    - prioritizing of issues 50–51
    - regulatory-based actions 52
  - developmental framework 41–9
    - industry context 42–3, 49–50
    - market-based actions 44–7, 51–2
    - operational-based actions 47–9, 53
    - prioritizing issues related to sustainability 43–4
    - regulatory-based actions 47, 52
    - strategic action 44
  - issues perspective on understanding of sustainability 38–41
  - strategy dynamics methodology 162–4
  - sustainability reporting 212
    - communication strategy 212
    - ICT capabilities 212–15
    - organization 215–16
- supply chain management 94–5, 108–9
  - life cycle assessment (LCA) and 95–100, 108
    - Australian grain industries 98–9
    - limitations 99–100
    - methodology 96
    - potential cleaner production benefits 100–104
    - restructuring supply chains 104–8
- survival economy 300
- sustainability 1, 2, 53–4, 299–307
  - corporate 1–3
    - plan and scope of book 3–8
    - see also* individual topics
  - definitions 302–5, 333
  - issues perspective on understanding of 38–41
  - strategic considerations, *see* strategic issues
  - WCED definition 57
- sustainable modernization theory (SMT) 118
- sustaincentrism 19
- Sweden 301
- Taoism (Daoism) 14, 18
- technical changes 103
  - agriculture and 88
  - technological optimism 306–7
- technocentrism 15, 16, 17
- Thant, U. 297
- tobacco industry 321
- Toyota 45, 66
- tradable rights schemes 200
- TRW 45
- Trzyna, T.C. 303
- Turban, E. 78
- uncertainty
  - economic sustainability of firms and 190
- United Kingdom
  - sustainable reporting 214
- United Nations 297
  - Conference on Environment and Development (UNCED) 303
  - Conference on Human Environment 297
  - Educational, Scientific and Cultural Organization (UNESCO) 20
  - Environmental Programme (UNEP) 290, 297, 313, 315
  - Intergovernmental Panel on Climate Change (IPCC) 11
  - millennium development goals 305
  - Occupational Safety and Health Administration (OSHA) 47

- World Commission on Environment and Development (WCED; Brundtland Commission) 57, 302, 303, 306, 307, 314, 327
- United States of America 43
  - obesity epidemic 50–51
  - organic standards 52
- Valor, C. 141
- van Dalen, M. 229
- van Marrewijk, M. 141
- Vaughan, D. 21
- Vietnam 326
- Volkswagen 241
- Waddock, S.A. 40, 51
- Walton, J. 213
- Wempe, J. 141
- Wheeler, David 311
- Whole Foods Market 47
  - case study of strategy in sustainable world 49–53
  - industry context 49–50
  - market-based actions 51–2
  - operational-based actions 53
  - prioritizing of issues 50–51
  - regulatory-based actions 52
- Williamson, O.E. 193
- Wilson, M. 137
- World Bank 300
- World Commission on Environment and Development (WCED; Brundtland Commission) 57, 302, 303, 306, 307, 314, 327
- World Summit on Sustainable Development 301
- World Trade Organization (WTO)
  - environmental protection and 107
- Wu, W. 83
- XML 209, 216, 218, 235, 237, 240
  - XBRL taxonomy for sustainability reports 232–3
  - XML-based document engineering 230–31