

---

# Index

---

- air quality 18, 30, 34–5
    - air pollution 38, 76, 232
      - related fatalities 30
      - sources of 31
    - biological pollutants 32–3
      - biologically derived volatile organic compounds (BVOCs) 32–3, 37–8, 43–4, 76–7
      - spores 32
    - concentration limits 30–31
    - role of vegetation in 30–33, 41, 43–4
      - street trees 33–4, 36
  - air temperature 41
    - regulation of 44
    - use of vegetation in 72
  - ancient Greece 319
  - Aristotle 319
  - Arnell, Nick 52
  - arsenic (As) 30
  - Arup
    - Cities Alive* 364–5
  - Ashworth, G. 303, 306
  - Atkinson, G. 400
  - Atlantic Gateway 130, 136–7
  - Atlas Capital Group 159
  - Australia 16, 54, 231, 234, 256
    - Australian Disability Discrimination (1992) 246
    - Melbourne 57, 277
      - Parks Victoria 342
      - Urban Forest Strategy 454
    - Sustainable Landscapes Project 237
    - Sydney 234
      - Central Park building 234
  - Austria
    - Vienna 31
  - Baca LiFE project 58
  - Banerjee, T. 247
  - Bankside Open Spaces Trust 341
  - Barratt Homes 152, 378
  - Belgium 360
    - Bruges 110
  - benzene (C<sub>6</sub>H<sub>6</sub>) 30
  - Berque, Augustin 317–18
  - biodiversity 3, 96–8, 136, 185, 187, 234, 435, 447
    - bird species 90–91
    - designing green infrastructure for 96–9
      - connectivity 93
      - habitat creation 97
      - heterogeneity 92–3
      - management 95
      - native species 93–4
      - patch size 93–4
      - use of brownfield/contaminated sites 97
  - indicators
    - global 87
  - loss of 118, 169, 451
    - role of urbanisation in 87–9
  - plant 89, 93
  - urban environment 88–9
  - woodland 437
- Biosffer Dyfi Biosphere 359–60
  - Birmingham Open Spaces Forum 367
  - Blair, Tony 381
  - Body Mass Index (BMI) 16
  - Boeri, Stefano
    - Vertical Forest project 453
  - Boston Park System (Emerald Necklace) 13
  - blue infrastructure 18, 51, 54, 57–8
  - blue-green infrastructure 2, 17–18, 59
    - detention basins 61
    - green roofs 60
    - potential of 59
    - rain gardens and bioswales 61
    - retention ponds 61
    - small business 60
    - swales 61
    - tree pits 61
  - Bradshaw, A.D. 395–6
    - Restoration of Land, The* 400
  - Brazil 256
    - Rio de Janeiro
      - Copacabana 321
  - British Standards Institution 404
  - Buffalo Park System 14
  - cadmium (Cd) 30
  - Cambridge Futures Group 147
  - Cambridgeshire and Peterborough Structure Plan (2003) 147
  - Cambridgeshire Horizons 148
    - Quality of Life programme 149
  - Canada 234, 256, 277, 309
    - British Columbia 308, 313

- River, Fraser 309
- Toronto 234
- Vancouver 6, 307–11, 313–14, 356
  - City of (COV) 308
  - Downtown District Official Development Plan (1975) 308, 311
  - Downtown Vancouver Skyline Study 308, 311, 313
  - General Policy for Higher Buildings* (1997) 308
  - Greenest City 2020 Action Plan* (GCAP) 367
  - Stanley Park 307
  - Vancouver City Council 313–14
  - Vancouverism 309–11
  - View Protection Guidelines* (1989) 311
- Canyon-Johnson Urban Funds 159
- capital 58, 345
  - investment 137, 345
  - mobile 304
  - natural 169, 174
  - social 284
- carbon dioxide (CO<sub>2</sub>) 2, 35, 38
  - atmospheric 44
  - emissions 366
    - anthropogenic 38, 40
    - energy-related 38
    - reduction of 244
    - removal 43
    - urban surfaces 39–40
- carbon monoxide (CO) 30, 32
  - concentration of 36–7
- carbon sequestration 76, 399
- Central Scotland Green Network Trust (CSGNT) 365–6
- Centre for Economics and Business 248
- Chadwick, M.J. 395–6
  - Restoration of Land, The* 400
- China, People's Republic of 106, 112
- Ciorra, Pippo 168
- City Parks Alliance 348
- climate change 1, 17, 30, 40, 51–2, 54, 63, 84, 88, 106, 137, 168, 346, 352, 355, 364, 371, 408, 450–51, 454, 456
  - adaptation 2, 93–4, 118, 128–9, 136, 236, 371
  - mitigation 2, 31, 75, 118, 169, 238, 399, 410
    - use of urban vegetation 38–9
  - threat to biodiversity 98
- climate regulation 54, 185, 426, 451
- Commission for Architecture and the Built Environment (CABE) 237, 249, 257
  - Skills to Grow. Seven Priorities for Green Space Skills* 345
- Community Forest Partnerships 112–13
  - Mersey Forest, *The* 3–4, 113, 124–5, 127–8, 130, 132, 137–9, 368, 399
  - Forum 127
  - Green Infrastructure Unit (GIU) 127
  - Liverpool City-Region and Warrington Green Infrastructure Framework 137
  - Liverpool Green Infrastructure Strategy 137
  - Think Tank (GrITT) 127
- North-East Community Forest 113
- Red Rose Forest 113, 125, 127
- community involvement 354, 360, 370–71
  - benefits of 354–5
  - community interest companies (CICs) 356–7
  - definition of 355–6
  - experiential knowledge 364–5
  - funding conditions 362–3
  - Mersey Forest Plan, The* 356
  - patterns of 358–9
  - planning for urban areas
    - garden cities 367
    - liveable cities 366–7
    - transformation via major projects 368–9
    - urban extensions and new towns 367–8
  - San Francisco Forest Map* 356
  - Seven Lochs Wetland Park Masterplan* 356
  - Winsford Neighbourhood Plan* 359, 362
- computational fluid dynamics (CFD) model 33, 36
- Conservation Fund 110
- Conservative Party (UK)
  - Coalition Government (2010–15) 112
    - green infrastructure policy-making under 113–16
- Construction Industry Research and Information Association (CIRIA) 55
- Cooperative Research Centre for Water Sensitive Cities (CRC-WSC) 54–7
- COST Action 110
- cost–benefit analysis (CBA) 3, 70, 72–9, 82–3, 85
  - commissioning issues 80–82
  - displacement 79–80
  - ecosystem services 70, 72
    - valuation 72
  - formal 73
  - PROJECT OFF 70
  - PROJECT ON 70
  - social return on investment (SROI) 74
  - timeframe 79
- cost–benefit ratios 78

- cost-effectiveness analysis 74–5  
 Council for the Protection of Rural England 147–8  
 Council of Europe (CoE)  
   *European Landscape Convention* (ELC) 4, 167–71, 173–4, 178, 180–82, 361  
   Landscape Quality Objectives (LQOs) 167, 170–76, 178, 180–82  
   Strategic Environmental Assessment (SEA) 171, 173, 175–6  
 Countryside Agency 113, 115, 125, 127  
 Czalczynska-Podolska, M. 283
- Denmark 274  
 disability 246  
   ageing populations 251–2  
   ambulant 250–51  
   equality legislation 246–8  
   green infrastructure access issues 243–7, 253–5, 257–8  
     delay in progress 247–9  
   issue of wheelchair symbol 250–51  
   mental health issues 251  
   sight loss 251–2  
   universal design principles 256–7  
     criticisms of 256
- Doick, K. 400, 410
- economic impact analysis 74–5, 80  
 economic impact assessment (EIA) 67, 69–70, 85  
   limitations of 82  
 economic theory 67–9  
   role of market in 69  
   market failure 69–70
- Engineering and Physical Sciences Research Council (EPSRC) 54  
   Adaptable Urban Drainage – Addressing Change in Intensity, Occurrence and Uncertainty of Stormwater (AUDACIOUS) 53
- environmental settings 432, 434–5  
 European Commission 174, 458  
   Air Quality Standards 30  
   green infrastructure policies of 111  
 European Green Infrastructure Strategy 130–31  
 European Union (EU) 30, 109–11, 169, 171, 248, 363, 457  
   Blue Green Dream project 54  
   definition of green infrastructure 227  
   Floods Directive 56–7  
   Green and Blue Space Adaptation for Urban Areas and Eco Towns (GRaBS project) 54, 128–30, 137  
   green infrastructure policies of 111–12  
   Life+ 363–4  
   Structural and Investment Fund Strategies 130  
   territory of  
     artificial areas 168  
   Water Framework Directive 56–7, 111
- Facebook 449  
 Felt, James 233  
 flooding 2, 13, 17, 50–52, 233–4, 236, 402, 428, 450  
   downstream 72  
   mitigation 230, 232, 236, 399  
   risk 52, 84–5, 195  
     assessment 57  
     stormwater 61  
   urban 402
- Forest Research 363–4  
 Forestry Commission 4, 112, 124  
   UK Woodland Carbon Code 455
- France 40, 256  
   Nice  
     Promenade des Anglais 321  
   Paris 31, 90, 94–5, 339  
   Quai Branly Museum 234
- Garden City movement 2, 14, 32  
 Geddes, Patrick 14  
 Gender Mainstreaming Toolkit 203–4  
 geographic information system (GIS) 148, 354  
   analysis 156
- Germany 32, 256, 360  
   BIDs/NIDs in 343–4  
   Dortmund 110  
   Freiburg 234, 366  
     *Land Use 2020* 366–7  
     Local Agenda 21 367  
   Hanover 89, 93  
   Leipzig 449
- Global Financial Crisis (2007–9) 248, 449, 457  
 Goldsmith, S. 243, 256  
 Great Outdoors Colorado Foundation (GOCO) 287, 292  
 green belt 37, 146–7, 186, 193, 452  
 Green Flag Award 340, 345, 350  
 green infrastructure 1–2, 5–7, 14–15, 19–20, 31–2, 41, 50–51, 53–4, 58, 62–3, 69, 73, 78, 84–5, 91, 109, 118, 124, 127–9, 131–3, 136–9, 149–50, 157, 174, 184, 188, 200, 203, 220, 227–8, 234–5, 253, 297, 321, 375, 378, 401, 440, 445, 447–9, 453, 456–9, 461

- benefits in land/urban regeneration 399–400
- definitions of 11–12, 125–6, 227, 396
- design considerations 181
  - biodiversity 92–9
  - growth strategies 145–56
  - multifunctionality 237–8
- development of 67, 105–6, 145, 376
- disabled access in 242–3, 253–4
  - delays in progress for 248–9
  - disability issues 243–7, 254–5
- discourse 378
  - practice-based reforms 377
  - synergy of function 376–7
- ecological benefits of 13
- economic analysis of 78–9
- evaluation of 414–15, 420–21, 423–4
  - ecosystem services 424–35
  - logic modelling 416, 418–19, 424, 426, 439
  - monitoring/evaluation 420–22, 439–40
- future of 445–9
  - climate readiness 450–51
  - digital 458–9
  - in austerity 456–7
  - integration 460–61
  - protection 452–3
  - wildlife habitats 451–2
- governance models 338–9
- health benefits of 12, 15–16, 25, 41, 453–4
  - physical activity 16
  - stress reduction 17, 245
- management of 98, 238
- market infrastructure 388–9
- multifunctional 230–31, 238
  - designing 237–8
  - ecological 232
  - economic 232–3
  - functional synergies 234, 236, 238
  - social/cultural 231–2
- origins of 14
- planning principles 190
  - context 189
  - continuity 189
  - quality 188–9
  - quantity 188
- policies 105–6, 108–10, 118–20, 128–30, 150–51
  - international 110–12, 119
  - national 112–17, 119
  - stakeholders 109, 115
- presence in historic urban environments 301, 304–5
- role of water in 17
- social well-being benefits of 18
- types of 204–5
  - typology of 228–30
  - urban 45, 91, 184–6, 199, 454–5
    - operative (OUGI) 4, 187, 190, 192–3, 196, 198–200
    - strategic (SUGI) 4, 187, 190, 192–3, 195–6, 198–200
  - users of 205–6
- Green Infrastructure Forum for Cambridgeshire
  - establishment of (2004) 148
- green school grounds 281
  - benefit of nature access to children 281–2
  - design considerations 289–90, 292–7
    - adults 284, 287
    - children 283, 287
    - joint use 285, 289, 292–3
- green space governance models 6, 338–9, 344–5, 349, 351–2
  - area-based 343
  - asset management approach 349–50
- Business Improvement Districts (BIDs) 343–4, 348
- Community-led Spaces* 341
- differing scales 342
- funding 345–6
  - future trends in 348–9
  - planning/development 347–8
  - private sector 346–7
  - site-based income generation 348
  - voluntary/non-profit sector involvement 347
- management planning 350
- managing use 350–51
- Neighbourhood Improvement Districts (NIDs) 343–4
- partnerships 341–2
- settlement-wide 342–3
- site-based 343
- skills 344–5
- state-wide 342–3
- Green Spaces South Cheshire 357
- greenhouse gases 36, 40, 356, 366
  - anthropogenic emissions of 38–9
- Greenlink 2, 20–21, 24, 365
  - establishment of (2005) 21
- Greenpeace 24
- Greenspace 262
- grey infrastructure 53, 107, 234, 377
  - investment in 105
- Grosvenor
  - partnership in Trumpington Meadows Land Company 152
- habitat provision 435
- Harvard University 146

- Heritage Conservancy 110
- Hinduism  
 Diwali 217  
 Mela 217
- historic urban environments 301, 304  
 concept of 302–3  
 conservation of 305–7  
 heritage governance 305  
 planning 307  
 green infrastructure element of 301, 304–5  
 role of new development in 306–7  
 urban morphology 304
- Holmgren, David 237
- Hopman, M. 455
- Hostetler, M. 106, 376
- Howard, Ebenezer 14, 32, 367
- Humboldt, Alexander von 317
- Hutchings, T.R. 396
- hydrofluorocarbons (HFCs) 38
- HYM Investment Group 159
- India 106, 112, 248, 256
- Institution of Civil Engineers 458
- International Panel on Climate Change (IPCC)  
 39
- Interreg IVB 110  
 North Sea Region 360
- isoprene (C<sub>3</sub>H<sub>8</sub>) 37
- Israel 256
- Italy 6, 256  
 Chioggia  
 landscape development in 321, 325–8,  
 329–32  
 Florence 2, 39  
 CO<sub>2</sub> emissions from 40  
 urban vegetation in 39–40  
 Milan  
 Bosco Verticale 234  
 Porta Nuova 453
- i-Tree Eco 75, 77–8, 459
- Ka-Shing, Li 309
- Kitchen, L. 403–4
- Kyoto Protocol  
 regulation of anthropogenic greenhouse gas  
 emissions 38
- labour  
 productivity 134
- Labour Party (UK)  
 New Labour (1997–2010)  
 brownfield first policy 381  
 green infrastructure policy-making under  
 112–13  
 ‘Sustainable Communities’ agenda 377
- land/urban regeneration 395–6, 398, 406–7,  
 410–11  
 benefits of green infrastructure in  
 economic 399–400  
 environmental 399  
 social 399  
 brownfield land 403–4, 415  
 concept of 395  
 confusion regarding green infrastructure  
 rules 407–8  
 cost of maintaining greenspace 408  
 land-ownership issues 407  
 process of 404–5  
 Soil Resource Survey 404  
 vegetation types used in 405–6  
 scale of post-brownfield green infrastructure  
 408–10  
 technical challenges 400–401  
 habitats 402–3  
 soil types 401–2
- Land Trust 347
- landscape 166–9, 171, 174–5, 180, 182, 190,  
 192, 317–21  
 concept/definitions of 176, 317–18  
 identities 318  
 management 169  
 zoning 176  
 metropolitan 187–8, 199–200  
 metropolitan scale 186  
 municipal scale 186  
 Nature–Artifice dynamic 322–3  
 planning 169, 180–81, 319  
 post-industrial 395  
 protection 169  
 rejuvenation 365–6  
 transformation 320–21, 324, 327–32  
 units 180  
 urban 193, 200, 236, 459–60
- Landscape Institute 110, 116, 148, 458  
 ‘Profitable Places: Why Housebuilders Invest  
 in Landscape’ 153
- Larkham, P. 303, 306
- LDA Design 149
- lead (Pb) 30
- Liberal Democrats (UK)  
 Coalition Government (2010–15) 112  
 green infrastructure policy-making under  
 113–16
- Liernur, Jorge 168
- Living Streets 360
- logic models 417–19, 424, 432, 434, 437,  
 439  
 activities approach 418–19  
 outcome approach 419  
 process of 419–20, 426, 428, 430, 432

- theory approach 418
- Weaver's Triangle 418
- London Legacy Development Corporation (LLDC)
  - Legacy Masterwork Framework 370
- Lorenzetti, Ambrogio
  - Allegory of Good and Bad Government 319
- Lough Neagh project 361–2
- Loukaitou-Sideris, A. 247
- Louv, R.
  - concept of 'Nature Deficit Disorder' 252
- Lynch, Kevin
  - Image of the City, The* (1990) 166
- Mace, Ron
  - role in development universal design concept 256
- Malaysia 90
- McHarg, Ian 14
- methane (CH<sub>4</sub>) 38
- Michael Van Valkenburgh Associates 160
- Millennium Ecosystem Assessment (MEA) 230, 396, 408
- mixed methods approach 262
- Moffat, A.J. 396
- Mollison, Bill 237
- monoterpenes (C<sub>10</sub>H<sub>16</sub>) 37
- Muir, John 12
- multifunctionality
  - concept of 230–31
- Nantwich Riverside Project 357
- National Housing Federation
  - Neighbourhoods Green 344
- National Statistic Socio Economic Class (NS-NEC) system 269
- National Trust 217, 245, 252
- Natural Economy Northwest (NENW) 128, 375, 377
  - Economic Value of Green Infrastructure, The* 134–5
- Natural England 4, 77, 110, 112, 115–16, 124, 128, 376
  - literature review of 80
- Natural Resource Wales 359–60
- neoclassical economics 67–8, 82
- neoliberalism 375
- Netherlands 41, 256, 282, 360
  - Amsterdam
    - GWL Terrein 95–6
    - Room for the River programme 57
    - Rotterdam 234, 446
  - New Yorkers for Parks 346
  - New Zealand 54
- nickel (Ni) 30
- nitrogen dioxide (NO<sub>2</sub>) 30, 32–3, 35
- nitrogen oxide (N<sub>2</sub>O) 37–8
- nitrogen trifluoride (NF<sub>3</sub>) 38
- noise mitigation 430, 432
- non-governmental organizations (NGOs) 173, 175
- NorthPoint Park 145
  - development parameters 160
  - North Point PUD 160, 162
  - land used in development of 159–60
  - opening of (2007) 158
- Norway 256
- Oehme van Sweden and Associates
  - parks designed by 158
- Olmsted, Frederick Law
  - observation on benefits of park networks 12–14
  - parks designed by 13–14, 32
- OPAL 458
- Organisation for Economic Co-operation and Development (OECD) 111
- Orwell, George
  - Animal Farm* (1945) 242
- Overseas Development Agency 111
- ozone (O<sub>3</sub>) 30, 32, 35, 40–41, 78
  - photochemical 37
- PanAm Railways 159
- Pareto, Vilfredo 69
- particulate matter (PM) 30–33, 35–6, 40–41, 44
  - traffic-emitted 33
- perfluorocarbons (PFCs) 38
- Persimmon 378
- polycyclic aromatic hydrocarbons (PAH) 30
- Portugal 6, 167–8, 170, 175
  - Arnóia Dam 175
  - Aveiro 36–7
  - Cabo Mondego 322
  - Figueira da Foz
    - landscape development in 321–5, 331–2
  - Land Use Plan 171
  - Lisbon 36, 175
  - Óbidos 4, 167, 175–6
    - landscape of 175–6
    - LQO Plan 176, 180
    - Óbidos Lagoon 175
- Ovar-Marinha Grande Coastal Zone Management Plan (POOC) 322
- Porto 4, 193–5, 198–9
  - OUGI of 196, 198–9
  - Public Spaces and Facilities Map 198
  - Routes Map 198
  - SUGI of 195–6, 199
- River, Arnóia 175

- River, Douro 194, 196, 198  
 River, Mondego 322  
 River, Real 175  
 River, Tinto 198  
 River, Torto 198  
 River, Vale Benfeito 175  
 Santa Clara Plateau 89–90  
 Serra da Boa Viagem 322  
 Spatial Planning Framework 175  
 public green spaces/parks 12–13, 17, 31, 158, 199, 204, 207, 216, 220, 310, 337–8, 340, 342, 344, 346, 348–9, 351–2, 357  
 accessibility 209  
 amenities/facilities 212–15  
 as commodity 216  
 concept of 337–8  
 external access 208  
   housing 208–9  
   transport 208  
 management 341–2  
 ownership issues 216–19  
 paths 209–12  
   security 211–12  
 privatisation of 339–40  
 urban parks 217–18  
 uses by social groups/population  
   demographics 206–8, 219  
 public open spaces (POS) 260–63, 267–8  
 relationship with surroundings 261–2  
 use of 268–70, 278  
   impact of access to private outdoor spaces  
     on 270, 274, 276  
   impact of legibility/attractiveness/fit with  
     local character on 274  
   impact of provision of POS on 270, 275,  
     277  
   impact of street pattern/density/  
     integration/mixed use development  
     on 274, 276–7  
   reduced 275  
   socio-demographic factors influencing  
     274–5
- Quality Management Systems 460  
 quality of life 2, 12, 15, 19, 148–9, 162, 170, 188–9, 200, 238, 251, 281, 362, 368, 387–8  
 promotion of 185
- Reeves, Dory 220  
 Republic of Ireland 256  
 Research Institute for Regional and Urban  
 Development (ILS) 110  
 residential development 375–6, 383–4,  
 388–92
- speculative housing provision 378–80  
 innovation in 385–8  
 relationship with environmental agenda  
 380–82  
 strategies 380–81
- Robert Bray Associates 62  
 Roger, Alain 320  
 Royal Commission on Environmental  
 Pollution (RCEP) (2007) 376  
 findings of 363  
 Royal Institute of British Architects (RIBA)  
 458  
 Royal Institution of Chartered Surveyors  
 (RICS) 204, 458  
 Royal National Institute of Blind People  
 (RNIB) 251  
 Royal Society for the Protection of Birds  
 (RSPB) 355–6  
 Royal Town Planning Institute (RTPI) 116,  
 153, 220–21, 458  
 Code of Professional Conduct (2012)  
 220
- Scottish Index of Multiple Deprivation 21  
 Second World War (1939–45) 302, 365  
 Siemens AG 111  
 Sieverts, Thomas 168  
 Singapore 89  
   biodiversity in 90  
   Public Utilities Board (PUB)  
     Active, Beautiful and Clean Waters  
     (ABC Waters) 54
- SITA Trust 128  
 Smith, Adam 68  
 soil formation 437  
 South Africa  
   Cape Flats Sand Fynbos 89, 94  
 South Yorkshire Forest Partnership 363  
 Spain 168  
   Barcelona 31  
 spatial voids 167  
 stormwater regulation  
   leaf area index (LAI) 428  
 sulphur dioxide (SO<sub>2</sub>) 30, 32–3, 35  
 sulphur hexafluoride (SF<sub>6</sub>) 38  
 sustainable development 7  
 Sweden 283, 360  
   Malmö  
     Augustenborg 236
- SWITCH-EU 55  
 Switzerland 256
- Taylor Wimpey 378  
 Terence O'Rourke 152  
 Thames Gateway 130, 375, 377

- Town and Country Planning Association (TCPA) 110, 112, 116, 237–8, 376, 458  
 Green Infrastructure Partnership 458  
 Treezilla 458  
 Trumpington Meadows 145, 151, 157  
     Country Park Strategic Plan 153  
     creation of 152  
     Environmental Management Plan 152–3  
     land used by 151–2  
     Public Art Strategy 152  
     Youth and Play Strategy 152  
 Trumpington Meadows Land Company  
     land purchased by 152  
 Trust for Public Land 233  
 Tunbridge, J.E. 303  
 turquoise infrastructure 17  
 Twitter 449
- UK Landscape Award 361  
 United Arab Emirates (UAE)  
     Dubai 320  
 United Kingdom (UK) 3, 5–7, 14, 40, 50,  
     53–4, 58, 77, 106–7, 119, 124, 132, 145,  
     159, 206, 213, 231, 242, 245, 248, 251–2,  
     262, 274–5, 277, 302, 338, 355, 357, 360,  
     378, 445, 454  
     air pollution in 30  
     Bath 243  
     Bedfordshire 118  
     biodiversity loss in 87, 90  
     Birmingham  
         Green Vision 367  
     Bradford  
         Lister Park 448  
     Bristol 243, 260, 275, 447  
         Bedminster 216, 243–4  
     Building Regulations 246–7, 257  
         Part M 246  
     Built Environment Professional Education (BEPE) project 249  
     Cambridgeshire 116, 118, 145, 149, 161–2  
         Cam, River 146, 151  
         Cambridge 4, 145–7, 155–6, 162, 452  
         Cambridge City Council 146, 148–53  
         Green Infrastructure Strategy 157  
         South Cambridgeshire District Council  
             146, 148–50, 152  
         Southern Fringe 150–51  
     Carlisle 118  
     Cheltenham 243  
     Chronically Sick and Disabled Persons Act (1970) 245  
     Climate Change Risk Assessment (CCRA) (2012) 456  
     Code for Sustainable Homes 157
- Commission for Architecture and the Built Environment 60  
 Community Infrastructure Levy (CIL) 216, 362, 367  
 Cornwall 118  
 Department for Communities and Local Government (DCLG) 354, 361  
 Department for Environment, Food and Rural Affairs (DEFRA) 57, 70, 109, 125–6, 354, 405  
     Natural Environment White Paper (2011) 362, 407  
 Devon 118  
 Disability Discrimination Act (DDA) (1995) 246, 248  
 East Midlands 118  
 economy of  
     cost of human health 16  
 Environment Agency 4, 58, 124, 128, 404  
 Equality Act (2010) 246–7  
     Gender Equality Duty (GED) 220  
     Public Sector Equality Duty (PSED) 220  
     Section 149 247  
 Flood and Water Management Act (2010) 57, 59  
 flooding in 52, 57  
     water stress 52  
 Gloucester 243  
 government of 52, 74, 79, 112, 116, 249, 361, 367, 414  
     Pitt Review 52  
 Government Office for the North West (GONW) 125, 129  
 green infrastructure policy-making in  
     115–16, 118, 137–9, 383, 385  
     local enterprise partnerships (LEPs) 130  
     local nature partnerships (LNPs) 130  
     National Planning Policy Framework (NPPF) 113–14, 130–31, 383  
     Natural Environment White Paper 131  
     Planning Policy Guidance (PPG) notes 112–13  
     Planning Policy Statements (PPSs) 112  
     Sustainable Communities Plan 147  
 Harlow 32  
 Heritage Lottery Fund 338, 348, 357  
     Public Parks Programme 345  
 housebuilding industry of 390–92  
     innovation in 385–8  
     speculative housing provision 378–83  
 Humber 116  
 Liverpool 118, 125, 130, 133, 137, 139  
     Birkenhead Park 12  
     Chavasse Park 340



- Everton Park 358  
 Liverpool ONE 340  
 Localism Act (2011) 362  
   Community Right to Bid 362  
 London 116, 145, 147, 151, 217, 351, 359, 409, 445, 448  
   All London Green Grid 237  
   Battersea Park 337  
   Camley Street Nature Reserve 217–18  
   Greater London Authority 217  
   Mayesbrook Park 72–3  
   Queen Elizabeth Olympic Park 208, 210, 370  
   Southwark 341  
   Victoria Business District 234, 344  
   Victoria Park 12  
 Luton 118  
 Manchester 118, 125, 130, 137  
 Merseyside 124  
 Milton Keynes 118  
 Milton Keynes Park Trust 347  
 Monitor of Engagement with the Natural Environment (MENE) 447–8  
 National Ecosystems Assessment (NEA) 218, 415, 437, 451  
   categorisation system of 415–16  
   Follow-On Asset Check 84  
 National Health Service (NHS)  
   Lanarkshire Greenspace Health and Wellbeing Partnership 24  
 Natural Capital Committee 83–4  
 Natural Resource Wales 58  
 North West Climate Change Action Plan 128  
 North West Regional Assembly 129  
 Northern Ireland 361–2  
 Northern Ireland Environment and Heritage Service (NIEHS) 58  
 Northwest Regional Development Agency (NWDA) 127, 129  
   Regional Economic Strategy (RES) 128–9  
 Office for Disability Issues (ODI) 251  
 Office of National Statistics 250–52  
 Olympic Games (2012)  
   Legacy programme 208  
 open mosaic habitats in 403  
 Paralympic Games (2012) 249–50, 370  
 Plymouth 118  
 population of 206–7  
 Previously Developed Land  
   Open Mosaic Habitats 97  
 Public Health Act (1936) 213  
 Public Park Assessment 346  
 Regional Development Agencies (RDAs) 115  
 Regional Spatial Strategy (RSS) 115–16, 128–32  
 Scotland 2, 20, 282, 356, 365  
   Motherwell 21, 365  
   North Lanarkshire Council 365  
   Scottish Environment Protection Agency (SEPA) 58  
   Water Environment (Controlled Activities) (Scotland) Regulations (2011) 57  
 Sheffield 260  
   Abbeyfield Park 448  
 Sites of Special Scientific Interest (SSSIs) 402–3  
 South Midlands 118  
 St Helens 118  
 Stansted 147  
 Stroud 3, 61–2  
 Sustainable Communities Plan 125  
 Swindon 118  
 Taunton 243  
 Telford 118  
 Thames Basin Special Protection Area 97  
 Todmorden  
   ‘Incredible Edible Todmorden’ campaign 236  
 Torbay 3, 75, 79  
 Town and Country Planning Act (1947) 215  
 Treasury 79  
 urban trees in 37–9  
 Water Services Regulation Authority (Ofwat) 59  
 Weston-super-Mare 243  
 Wirral Waters 136, 355, 366, 368  
 Yorkshire 116  
 United Nations (UN) 203, 452  
   Convention on the Rights of Persons with Disabilities (2006) 247  
   Educational, Scientific and Cultural Organization (UNESCO) 359  
   ‘Man and the Biosphere’ 359  
   World Heritage Sites 196  
   Environment Programme (UNEP) 30  
   Framework Convention on Climate Change (UNFCCC)  
     Doha Amendment (2012) 38  
 United States of America (USA) 3, 11–12, 31, 57, 61, 75, 77–8, 106–7, 109–10, 112, 114–15, 119, 145, 231, 234, 245, 248, 256–7, 277, 282, 285, 309, 342, 377, 395  
   Americans with Disabilities Act (1990) 246  
   Arlington, MA 146  
   Berkeley, CA 285  
   Boston, MA 13, 32, 145, 158–9  
   Boston Schoolyard Initiative 285  
   Boulder, CO 5, 281, 295–7  
   Burke Park 282–3, 285–6, 289, 292–3, 297

- Department of Parks and Recreation 282, 297
- Growing Up Boulder (GUB) 286–7
- Buffalo, NY 32
- Cambridge, MA 4, 145, 154–6, 160–61, 453
  - Cambridge Riverfront Plan 156
  - Cambridge Zoning Ordinance 159
  - East Cambridge Neighbourhood Study (1989) 158
  - Land Program (MA) 156–7
  - Pedestrian Plan 156
  - River, Charles 146, 156, 158
  - Towards a Sustainable Future* 155
- Chicago, IL 31–2, 90, 94, 234
  - Millennium Park 346
- Civil War (1861–65) 12
- Clean Air Act (1963/1970/1990) 114
- Clean Water Act (1965/1972) 114
- Detroit, MI 236, 449
- Environmental Protection Agency (EPA) 30, 57, 109, 114–15, 157
- green infrastructure policy-making in 114
- Los Angeles, CA 232–3
- Massachusetts Bay Transportation Authority 160
- National Environmental Policy Act (1969) 114
- New Orleans, LA 83
- New York 84
  - Brooklyn Bridge Park 346–7
  - Central Park 31
  - Central Park Conservancy 343, 346
  - Green Infrastructure Plan 114
  - High Line 346
- Philadelphia, PA
  - Green City, Clean Water programme 114
- Seattle, WA 309, 361
- Somerville, MA 146
- urban forests in 38
- Universities Superannuation Scheme (USS)
  - partnership in Trumpington Meadows Land Company 152
- University of Colorado (CU) 296
  - Environmental Design (ENVD) 287
- University of the Third Age (U3A) 455
- University of Washington
  - Department of Landscape Architecture 361
- Urban Catchment Forestry 137
- urban heat island (UHI) 43
  - concept of 40
- urban planning 320
  - Critical Regionalism 320
  - Landscape Urbanism 320
  - Paisagem Global* 320
  - Projecto a Vela* 320
  - Rehabilitación* 320
  - Terra Fluxus 320
- urban trees 3, 34, 37–8, 40–41, 356, 399
  - canopy 31–2
    - isolated 39
    - role in reduction of
      - air pollution 72
      - pluvial flood risk 137
    - under-investment in 75
  - urban water management 2, 50, 53, 62, 236
    - alternative techniques (ATs) 50
    - best management practices (BMPs) 50
    - complimentary techniques (CTs) 50
    - governance 56–8
    - integrated urban water management (IUWM) 50
    - low impact development (LID) 50
    - source control 50
    - stormwater control measures (SCMs) 50
    - stormwater quality improvement devices (SQIDs) 50
    - stakeholders in 58–9, 61
    - sustainable urban drainage systems (SUDS) 2–3, 50, 60, 98, 402
      - treatment trains 61, 63
    - water sensitive urban design (WSUD) 50–51, 54–5
      - implementation of 59–60
  - urbanisation 11–12, 52, 87, 319, 445–6, 449
    - peri-urbanisation 167
    - role in biodiversity loss 87–9
    - suburbanisation 167, 446
  - urbanism 168, 186, 307, 313–14
- Van Zoest, J. 455
- Vaux, Calvert
  - parks designed by 32
- Vietnam War (1955–75) 246
- Vlaamse Landmaatschappij (VLM) 110
- Water Sensitive Cities (WSC) 54–6, 58
- Water Sensitive Urban Design 2
- Watson, N. 250
- Wellbeing Partnership 24
- Wildlife Trust 356
- Wildlife Trust for Bedfordshire, Cambridgeshire and Northamptonshire 153
- Williams, A. 249–50
- Women's Design Service (WDS) 212
- Woodland Trust 355
- World Health Organization (WHO) 11, 30
  - definition of health 15
  - recognition of disability 246