

## Abbreviations

µg m <sup>-3</sup>	microgram per cubic metre: = 10 <sup>-6</sup> g / m <sup>3</sup>
ABC	Dutch system of matching land-uses to their accessibility profile
ACCPE	Advisory Committee on Consumer Products and the Environment
AEAT	AEA Technology
AGMA	Association of Greater Manchester Authorities: umbrella body for 10 unitary Districts
ALARA	‘as low as reasonable achievable’: principle for environmental management
AQS	air quality standards for forthcoming pollution control regime
BANANA	‘build absolutely nothing anywhere near anyone’
BATNEEC	‘best available technology not entailing excessive cost’: the application of IPC
BAU	‘business as usual’: effect of continuing trends with current policies & commitments
BOD	biochemical oxygen demand: overall indicator of water quality
BPEO	‘best practical environmental option’: the main principle behind IPC
BREEAM	Building Research Establishment Environmental Assessment Method
BS 7750	British Standard on Environmental Management
CA	Civic amenity
cap	capita
CAP	Common Agricultural Policy of the EU: sets subsidies & levies for all food markets
CAT	Centre for Alternative Technology
CBA	cost-benefit analysis
CBO	citizen-based organization (voluntary sector)
CDEW	Construction, demolition and excavation waste
CDP	Central Data Processing
CEA	cost-effectiveness assessment
CEC	Commission of the European Community
CEST	Centre for the Exploitation of Science & Technology
CFCs	Chloro-fluorocarbons: the main cause of damage to the ozone layer
CH <sub>4</sub>	Methane
CHP	Combined heat & power: local power generation with use of waste heat
CIA	Chemical Industries Association: UK trade body
CIRIA	Construction Industry Research and Information Association
CLAG	Critical loads advisory group: govt. expert panel
CN	Combined Nomenclature
CO	carbon monoxide: emitted mainly by diesel engines
CO <sub>2</sub>	Carbon Dioxide
COICOP	Common Indexing Protocol Classification Of Individual Consumption by purpose
DE	Domestic Extraction
DEFRA	Department for Environment Food and Rural Affairs
DETR	UK Department of Environment, Transport and the Regions
DfEE	UK Department of Education & Employment
DfT	Department for Transport
DGXI	Directorates-General XI (European Commission)

DHC	Distribution, Hotels and Catering
DINKY	'double income & no kids' household
DIPSIR	'driving forces, pressure, state, impact, response': EU indicators system
DMC	Direct Material Consumption
DMI	Direct Material Input
DOE	Department of Energy
DTI	Department of Trade and Industry
DUKES	Digest of United Kingdom Energy Statistics
dw/acre	dwelling per acre: 10 dw/acre = 25 dw/hectare
DWI	Drinking Water Inspectorate
EA	Environment Agency
EAL	Environmental Assessment level: measure of safe background level
EAP	Energy Analysis Programme
EC	Energy carrier
EC	European Community
EEA	European Environment Agency
EEO	Energy Efficiency Office: Government agency for energy advice & info
EF	Ecological Footprint
EFD	Emissions Factor Database
EIA	Environmental Impact Assessment: applies to projects
ELV	End of life vehicle
EMAS	Environmental management & audit system: for management & monitoring
ENDS	ENDS Report: environmental journal
EPA	Environmental Protection Act 1990: formalized the IPC system
EPAQS	Expert Panel on Air Quality Standards: government review committee
EQS	Environmental quality standards: statutory pollution limit
ESI	electricity supply industry
EST	Energy Saving Trust: government-backed fund for subsidy of energy efficiency
ETC-WMF	European Topic Centre on Waste and Material Flows
ETR	ecological tax reform
EU	European Union
FAO	Food and Agricultural Organisation
FGD	flue gas desulphurisation: removal of SO <sub>2</sub> emissions from fossil fuel combustion
FRB	Finance, Real estate and Business services
FSS	Family Spending Survey
GDP	Gross Domestic Product
Gg	Giga-gramme = 109 grammes = 1000 tonnes = 1 kt
gha	global hectares
GHG	Greenhouse Gas Emissions
GIS	Graphical information system: computer-based mapping and geographical analysis
GJ	Gigajoule (energy unit): 1 gigajoule = 9.5 therms = 278 kWh
GM	Greater Manchester (comprising 10 unitary Districts)
GMC	Greater Manchester County: abolished in 1986
GMEU	Greater Manchester Ecology Unit

GMR	Greater Manchester Research, Information & Planning Unit
GOSE	Government Office for the South East
GOV	Government and Other Services
GQA	General Quality Assessment: standard method for freshwater quality
GVA	Gross Value Added
GWG	Global Warming Gas: generic term for any atmospheric cause of climate change
GWh	Gigawatt hour. 1gigawatt-hours = 1 million kilowatt-hours (KWh) (energy unit)
GWP	Global Warming Potential
H+	Hydrogen ion (measure of acidity)
ha or hectares	hectare . 1 hectare area = 10000 m <sup>2</sup> = 2.4 acres = 1/100 of 1 km <sup>2</sup>
HAG	Housing Association Grant
HEES	Home Energy Efficiency Scheme: govt fund for basic efficiency improvements
HEI's	Higher Education Institutions i.e. universities: 4 in GM
HES	Household Expenditure Survey
HF	Hidden Flows
HFCs	hydro-fluorocarbons: developed as a substitute for CFC's: significant GWG's
HH	Households
HMIP	Her Majesty's Inspectorate of Pollution: former body now subsumed in Environment Agency
HMO	house in multiple occupation i.e. subdivided into several households
HMSO	Her Majesty's Stationery Office
HSE	Health & Safety Executive: govt agency
IA	integrated assessment of environmental, social & economic impacts
ICER	Industrial Council for Electronic Equipment Recycling
ICT	Information and Communication Technology
IEA	International Energy Agency
INCPEN	Industry Council for Packaging and the environment
I-O ATs	Input Output Analytical Tables
I-O SUTs	Input Output Supply Use Tables
I-O	Input Output
IPC	'integrated pollution control': the UK system of regulation for air, water & waste pollution
IPCC	Intergovernmental Panel for the scientific assessment of Climate Change
IPPC	'integrated pollution prevention & control': draft EU directive for environmental man.framework
ISCAM	'integrated sustainable cities assessment method'
ISEW	'Index of sustainable economic welfare': a measure of total benefit to society
ISO 14001	International Standards Organization:
IVEM	Interfacultaire Vakgroep Energie en Milieukunde
kg	kilograms
km <sup>2</sup>	1 square kilometre = 100 hectares
Kt	Kilo tonnes = 1000 metric tonnes
LAs	local authorities: i.e. Districts of GM
LA21	Local Agenda 21: the production of sustainability plans by social consensus

LAAPC	Local Authority Air Pollution Control: licensing of less polluting processes by LA's
LCA	life-cycle analysis: total assessment of impacts for goods and processes
LCP	'least cost planning': method of allocating resources between multiple objectives
LETS	Local exchange & trading systems: network for non-monetary exchange
LGA	Local Government Association: newly merged organization for all local govt.
LGMB	Local Government Management Board: information & training organization
LOTS	Living Over the Shop scheme: promotes re-use of vacant space
LRT	Light rapid transit: i.e. the Manchester Metrolink
LTP	Local Transport Plan: system of bidding for local integrated transport strategy
m <sup>2</sup>	square meter: 1 m <sup>2</sup> = 10.76 ft <sup>2</sup>
MAFF	Ministry of Agriculture, Food & Fisheries
MBC	Metropolitan Borough Council
MFA	Material Flow Analysis
mg m <sup>-3</sup>	milligrams per cubic metre
mg	milligrams
Mgha	million global hectares
MIPS	'material input per unit service': measure of physical impacts of material production
MJ	Mega Joules
Mt	mega-tonne = 1 million metric tonnes
mtC	million tonnes of carbon: 1mtC equivalent to 3.67 million tonnes of CO <sub>2</sub>
mtoe	(energy unit): 1 million tonnes of oil equivalent: = 12700 GWh primary energy
MW	power unit: 1 mega-watt = 1000 kW (kilowatt) = 1000 kWh per hour
N <sub>2</sub> O	Nitrous Oxide
NACE	Classification of Economic Activities in the European Community
NAEI	National Atmospheric Emissions Inventory
NCBE	National Centre for Business & Ecology: partnership agency with Coop Bank &
NFFO	'Non-fossil fuel obligation': levy charged on energy companies
NFLA	Nuclear Free Local Authorities, an association coordinated from Manchester
ng m <sup>-3</sup>	nanogram per cubic metre = 10 <sup>-9</sup> g / m <sup>3</sup>
NGO	Non Government Organisations
NHER	National Home Energy Rating: a measure from 1-10 of domestic energy efficiency
NIMBY	'not in my back yard'
NO <sub>2</sub>	nitrogen dioxide, the most common oxide of nitrogen
NOMIS	(A web-based database of labour market statistics run on behalf of the Office for National Statistics by the University of Durham)
NO <sub>x</sub>	nitrous oxides incl. nitrogen dioxide and nitrous oxide, the largest pollutant from transport
NPFA	National Playing Fields Association: national body with standards for open space
NRA	National Rivers Authority: former govt body with responsibility for freshwaters
NWBLT	North West Business Leadership Team: private sector consortium of large employers
NWP	North West Partnership: umbrella consortium of NWBLT and NWRA
NWRA	North West Regional Association of local authorities
O <sub>3</sub>	tropospheric or low-level ozone: formed from VOCs and acid gases in sunlight
ODPM	Office of the Deputy Prime Minister

OECD	Organisations for Economic Co-operation and Development
OFWAT	Office of Water Services
ONS	Office of National Statistics
OPCS	Office of Population & Census Surveys: government statistical body
p.a.	per annum or per year
p.c.	per capita or person
PAC	polycyclic aromatic compounds
PAH	polycyclic aromatic hydrocarbons
PAT	Population, Affluence and Technology
Pb	Lead: contamination in air, water or land
PCB	Polychlorinated Biphenyl(s)
PET	Polyethylene terephthalate
PFI	Private Finance Initiative: capital investment by the private sector for public sector assets
PFR	Planning for Real: participatory planning using d.i.y. models
PgC	Petagram Carbon (10 <sup>15</sup> g)
pH	chemical measure of acidity: values below 7 indicate acid: above 7, alkaline
PIOT	Physical Input Output Table
PJ	Petajoule (10 <sup>15</sup> Joule)
pkm	Passenger-kilometres
PM <sub>10</sub>	Particulate matter less than 10 ug diameter
PM <sub>2.5</sub>	Particulate matter less than 2.5 ug diameter
ppb	parts per billion, by volume: pollution measure
PPG	Planning Policy Guidance: series of DOE papers on interpretation of planning law
pph	persons per hectare: planning measure for urban density
PRA	Prodcom Annual Report
PRODCOM	PRODUCTS of the European COMMunity
PTA & PTE	Passenger Transport Authority & Passenger Transport Executive
PV	photo-voltaics: synthetic panels which generate power directly from sunlight
QUARG	Quality of Urban Air Review Group: govt. expert panel
R&D	Research and Development
RCEP	Royal Commission on Environmental Pollution
RDA	Regional Development Agency
RDA	Research and Data Analysis Division
RE	Renewable Energy
RES	regional economic strategy: RDA framework for economic development & regeneration
REWARD	Regional and Welsh Appraisal of Resource Productivity and Development Database
RIBA	Royal Institute of British Architects
RPG	Regional Planning Guidance: framework for planning set by government
RPI	Retail Price Index
RSDF	Regional Sustainable Development Framework
SBI	Site of biological interest: a non-statutory designation used in GM
SCP	Sustainable Consumption and Production

SDS	sustainable development scenario
SE	South East
SEA	Strategic environmental assessment:: EIA applied to policies & programmes
SEEDA	South East England Development Agency
SEI	Stockholm Environment Institute
SERTAB	South East Regional Technical Advisory Body for Waste
SIC	Standard Industrial Classification
SITC	Standard Industrial Trade Classification
SME	small & medium enterprise: firm with up to 500 employees
SMR	Standardized Mortality Rate: statistical death rate allowing for age distribution
SO <sub>2</sub>	sulphur dioxide, the main component of acid rain: mainly from power generation
SPD	Single Programming Document: programme for EU regional funding
SRB	Single Regeneration Budget: combination of government funds for regeneration
SSSI	Sites of Special Scientific Interest
SUV	Sports Utility Vehicle
SWMA	Strategic Waste Management Authority
SWQO	Statutory Water Quality Objectives: official standards for river quality
t	tonne(s)
TCPA	Town & Country Planning Association
TEC	Training & Enterprise Council: DTI sponsored agency for business development
therm	(energy unit for gas): 1 therm = 29.3 kWh = 0.105 GJ = 100 000 BTU
TJ	Terajoule (10 <sup>12</sup> Joule)
TMC	Total Material Consumption
TMR	Total Material Requirement
TTWA	‘Travel to Work Area’: area with >70% containment in local labour & employment
UA	Unitary Authority
UDP	Unitary Development Plan: statutory land-use plan by local authorities
UEA	European Furniture Manufacturers Federation
UK	United Kingdom
UN	United Nations
UNDP	United Nations Development Programme
UNECE	United Nations Economic Commission for Europe
UNEP	United Nations Environment Programme
USDA	United States Department of Agriculture
UTC	Urban Traffic Control: electronic regulation of traffic lights & vehicle flows
VOCs	volatile organic compounds: large class of hydrocarbons: mainly industry / transport
vpd	(transport unit) vehicles per day in both directions
VR	Virtual Reality
VR4	Viridis Report (‘Construction Industry Mass Balance Report’)
ward	smallest unit of metropolitan government: 263 in GM, average 10000 population
WCA	Waste Collection Authority
WCED	World Commission on Environment & Development: produced Bruntland Report
WDA & WRA	Waste Disposal Authority & Waste Regulation Authority: now within EA
WDA	Waste Disposal Authority

WHO	World Health Organization: agency of United Nations
WRAP	Waste & Resources Action Programme
WRERP	Wales and Regions Economic Resource Productivity
WRME	Wood Raw Material Equivalent
WTE	Waste-to-energy: incineration with energy recovery
WWF	World Wide Fund for Nature