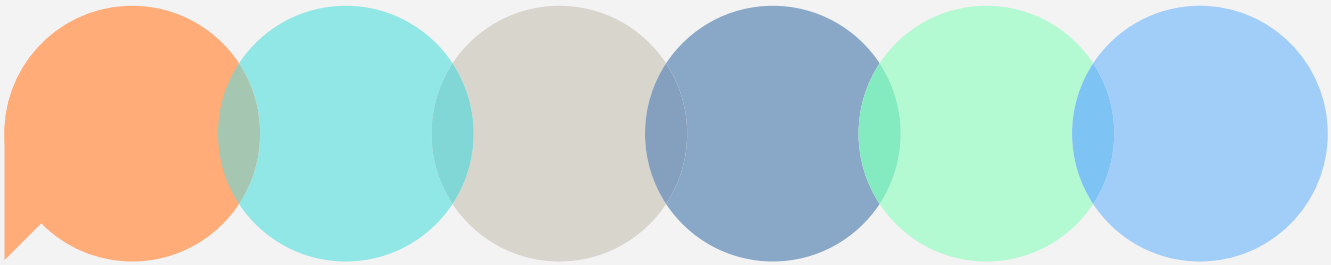
Climate Framework



A cross-industry
action group initiative

Context

1 Introduction [to the Climate Framework]

Purpose
Audience/Reader
Learning Objectives/Outcomes/Standards
[Framework] Structure
Terminology

2 Global Context and Fundamentals

Climate Fundamentals
- Climate Change
- Resource Use
- Systems Thinking

International Policy, Legislation, Agreements and Plans for Action
Financial Risks & Opportunities and Net Zero Economy

3 Built Environment Context

Environmental Impacts of the Built Environment
Ethics and Value of Sustainability
Sustainable Urbanism, Architecture and Engineering
Built Environment Policy, Legislation, Regulations, Commitments, Benchmarks and Construction Industry Guidance
Construction and Real Estate Industry

4 Common Threads

Retrofit (Adaptation and Reuse)
Climate Justice, Equitable and Inclusive Design
Designing for Performance, Feedback and Closing the (Performance) Gap
Planning for (Climate) Extremes, Disaster Risk, Resilience/Robustness, Redundancy and Adaptation
Building Safety
Process, Investment and Procurement
Stakeholder Engagement
Research, Innovation and Partnerships

Outcomes

1 Human Factors

Introduction and Core Principles
Biophilic and Sensory Design
User Experience Design and Occupancy Behavior/Control
Health, Wellbeing and Comfort
Communities, Interconnectivity and Inclusion
Social Value
Resources (Tools and Guides)
Case Studies

2 Circular Economy

Introduction and Core Principles
Resource Efficiency and Geographic Implications
Designing for Change (Flexibility and Adaptability), Redundancy and Regeneration
Environmental and Health Impacts of Materials and Waste
Waste as a Resource
Responsible and Ethical Sourcing
Resources (Calculations, Tools, Databases and Guides)
Case Studies

3 Energy and Carbon

Introduction and Core Principles
Passive Design
Active Design: Environmental Systems and Technologies
Whole Life Carbon Impacts (for Retrofit and New Build)
Offsetting
Operational Energy Modelling, Embodied Carbon Assessment and Iterative Design Process
Resources (Methodologies, Tools, Databases and Guides)
Case Studies

4 Ecology and Biodiversity

Introduction and Core Principles
Biodiversity and Net Gain
Nature-based Solutions
Land Use and Building Density
Bio-regional Urbanism and Design
Urban Farming and Sustainable Food Production
Resources (Tools and Guides)
Case Studies

5 Water

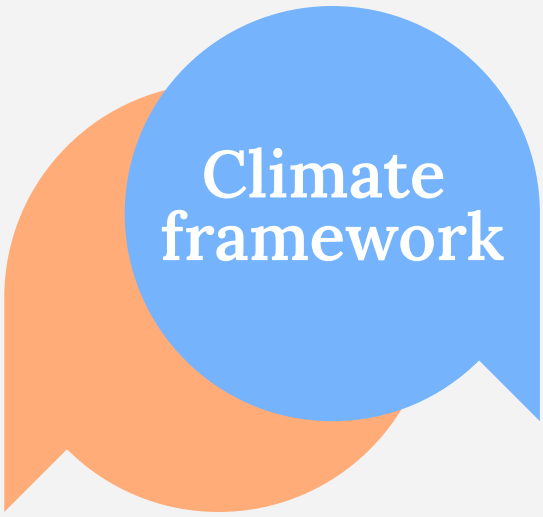
Introduction and Core Principles
Water Cycle, Demand, Supply, Reduction and Management
Water Recycle and Reuse
Rainwater Harvesting, Stormwater Management and Sustainable Urban Drainage
Water Pollution in (Natural) Aquatic Habitats
Climate Change Impacts (Floods, Droughts, Water Quality)
Resources (Calculators, Tools and Guides)
Case Studies

6 Connectivity and Transport

Introduction and Core Principles
Site Location
Compact Development and Walkability
Regional & Local Infrastructure and Planning
Low Carbon Transport and Multimodal Transportation Networks
Planning for Future of Transportation
Resources (Calculators, Tools and Guides)
Case Studies

7 Collated Resources

Key Definitions and Glossary
Overview
— Metrics and Methodologies
— Tools, Calculators, Databases, (Product/Material) Declarations, Certifications and Guides
— Case Studies
Takeaway Actions
Further Reading
References / Bibliography


Climate
framework