ISO GUIDE 84:2020 (E)

Guidelines for addressing climate change in standards

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms, definitions and abbreviated terms

3.1 Terms and definitions
3.2 Abbreviated terms

4 Understanding and responding to climate change

4.1 What is climate change?
4.2 Climate change mitigation and adaptation to climate change
4.2.1 General
4.2.2 Climate change mitigation
4.2.3 Adaptation to climate change
4.2.4 Interrelation between climate change mitigation and adaptation to climate change

5 Addressing climate change in standards

5.1 General
5.2 Principles related to addressing climate change in standards
5.2.1 General
5.2.2 Interactivity
5.2.3 Clarity
5.2.4 Involvement of interested parties
5.2.5 Transparency
5.2.6 Fairness and equity
5.2.7 Performance-driven approach
5.2.8 Future orientation

6 Planning the strategy

6.1 General
6.2 Issues to think about before establishing a committee
6.3 Strategic business plan
6.4 Review and revision of standards

7 Planning the content

7.1 Responsibilities
7.2 Understanding approaches to responding to climate change
7.2.1 General
7.2.2 Systems approach
7.2.3 Life cycle approach
7.2.4 Risk-based approach
7.2.5 Precautionary approach
7.3 Identifying climate change issues
7.3.1 General
7.3.2 Identifying relevant climate change issues
7.3.3 Identifying significant climate change issues

8 Addressing climate change issues

8.1 General
8.2 Consider interrelations between adaptation and mitigation

8.3 Addressing climate change mitigation when dealing with specific sources
8.3.1 General
8.3.2 GHG emissions from the direct or indirect combustion of fuels and energy efficiency
8.3.3 GHG emissions from the use of fluorinated industrial gases
8.3.4 GHG emissions from the process industries
8.3.5 GHG emissions from agriculture
8.3.6 GHG emissions from livestock operations
8.3.7 GHG emissions from waste management
8.3.8 GHG emissions from biomass and natural processes
8.3.9 GHG emissions from road transportation fuels
8.3.10 GHG emissions from the aviation sector
8.3.11 GHG emissions from maritime shipping
8.4 Mitigation approaches
8.4.1 GHG reduction through energy management and energy efficiency
8.4.2 GHG reduction through renewable energy
8.4.3 GHG reduction through fuel switching
8.4.4 GHG reduction through resource management
8.4.5 Carbon capture, use, and storage
8.5 Financing the transition to a low carbon economy
8.5.1 General
8.5.2 Policy incentives
8.5.3 Green debt instruments
8.5.4 Mitigation projects
8.6 Addressing climate change adaptation aspects in product and process standards
8.6.1 General
8.6.2 Considerations and approaches for adaptation
8.6.3 Incorporating climate change adaptation measures into standards
8.6.4 Process standards
8.6.5 Product standards
8.6.5.1 Climate change issues for products
8.6.5.2 Incorporating climate change adaptation at design stage
8.6.5.3 Incorporating adaptation in the product life cycle
8.6.5.3.1 General
8.6.5.3.2 Acquisition
8.6.5.3.3 Production
8.6.5.3.4 Service provision
8.6.5.3.5 Use
8.6.5.3.6 End-of-life
8.6.5.3.7 Transportation
8.7 Adaptation and mitigation in management system standards
8.8 Other aspects for consideration
8.8.1 Organizational inventories
8.8.2 GHG project monitoring
8.8.3 Per unit of product “footprints”
8.8.4 Role of verification in monitoring and evaluation

Annex A (informative) Using systems thinking to set boundaries for climate change adaptation3 3 This annex is reproduced from ISO 14090:2019, Annex A.

A.1 Systems thinking — The concept
A.2 Systems thinking — Benefits
A.3 Interconnections, dependencies and interdependencies
A.4 Mapping and identifying boundaries and sub-systems
A.5 Practical examples for Figure A.2

Annex B (informative) Background information on approaches for responding to climate change

B.1 General
B.2 Systems thinking approach
B.3 Life cycle approach
B.4 Risk-based approach
B.5 Precautionary approach
B.6 Identifying climate change issues
B.7 Timescales and future considerations
B.8 Task Force on Climate Related Financial Disclosures (TCFD)

Annex C (informative) Planetary boundary conditions

Annex D (informative) Adaptation to climate change and climate change mitigation: Examples and supporting information

D.1 Climate change and ISO 14001 environmental management systems
D.2 Climate change risks from the IPCC Fifth Assessment Report
D.3 Climate change adaptation checklists
D.3.1 General
D.3.2 Direct and indirect climate change impacts
D.3.3 Examples of climate change adaptation provisions

Page count: 61