ISO 14033:2019 (E)

Environmental management — Quantitative environmental information — Guidelines and examples

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

3.1 Types of information
3.2 Managing information
3.3 Characteristics of information

4 Use of quantitative environmental information

4.1 General
4.2 Internal use of quantitative environmental information
4.3 External use of quantitative environmental information
4.4 Using quantitative environmental information for comparisons

5 Principles for generating and providing quantitative environmental information

5.1 General
5.2 Relevance
5.3 Credibility
5.4 Consistency
5.5 Comparability
5.6 Transparency
5.7 Completeness
5.8 Validity
5.9 Appropriateness
5.10 Materiality

6 Guidelines

6.1 General
6.1.1 Plan-Do-Check-Act approach
6.1.2 Data sources and categories of data
6.1.2.1 General
6.1.2.2 Primary and secondary data
6.1.2.2.1 General
6.1.2.2.2 Primary data
6.1.2.2.3 Secondary data
6.1.2.2.4 Calculation method
6.1.2.2.5 Sources of data
6.1.2.3 Measurement method
6.1.2.4 Foreground and background data
6.1.2.5 Specific and generic data
6.1.2.6 Metadata
6.2 Plan
6.2.1 Conceptualize whole system
6.2.2 Break down system components
6.2.3 Select parameters
6.2.4 Define basic data
6.2.5 Identify measuring methods
6.3 Do

6.3.1 Set up measuring methods
6.3.2 Acquire basic data
6.3.3 Consolidate parameters
6.3.4 Synthesize system components
6.3.5 Aggregate whole system
6.4 Check
6.4.1 General views
6.4.2 Applying the framework for Check or review
6.4.2.1 Consecutive Check
6.4.2.2 Check or review of resulting quantitative information
6.4.3 Process
6.5 Act

Annex A (informative) Illustrative examples of the framework

A.1 Examples of data sources
A.2 Examples of realizing the objective
A.2.1 General
A.2.2 Conceptualize and aggregate whole system
A.2.3 Break down system components and synthesize system components
A.2.4 Select parameters and consolidate parameters
A.2.5 Define and acquire basic data
A.2.5.1 General
A.2.5.2 Identify and set up measuring methods
A.2.5.3 Check examples
A.2.5.3.1 General
A.2.5.3.2 Process

Annex B (informative) General simple examples

B.1 General
B.2 A simple example
B.2.1 Description
B.2.2 Requirements of the objective
B.2.3 Plan
B.2.4 Do
B.2.5 Check
B.2.6 Act

Annex C (informative) Sector-specific case studies

C.1 Data sources example for quantitative environmental information in the construction sector
C.2 Limited/simplified example of environmental accounting system implementation
C.3 Data sources example for quantitative environmental information when performing a life cycle analysis
C.4 Data sources example for quantitative environmental information in the oil industry — On-shore oil exploration and production (E&P)

Annex D (informative) Case studies from the ISO 14000 family of standards

D.1 Example of a metal company producing copper plated wire
D.2 Example of a plastic products eco-profile in the scope of ISO 14025 and ISO 14044

Annex E (informative) Clarification of concepts

Page count: 66