

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