

DIN EN ISO 50001:2011-12 (E)

Energy management systems - Requirements with guidance for use (ISO 50001:2011)

| Contents | | Page |
|--------------------|--|-------------|
| Foreword | | 3 |
| Introduction | | 4 |
| 1 | Scope | 6 |
| 2 | Normative references | 6 |
| 3 | Terms and definitions | 6 |
| 4 | Energy management system requirements | 10 |
| 4.1 | General requirements | 10 |
| 4.2 | Management responsibility | 10 |
| 4.2.1 | Top management | 10 |
| 4.2.2 | Management representative | 11 |
| 4.3 | Energy policy | 11 |
| 4.4 | Energy planning | 11 |
| 4.4.1 | General | 11 |
| 4.4.2 | Legal requirements and other requirements | 11 |
| 4.4.3 | Energy review | 12 |
| 4.4.4 | Energy baseline | 12 |
| 4.4.5 | Energy performance indicators | 13 |
| 4.4.6 | Energy objectives, energy targets and energy management action plans | 13 |
| 4.5 | Implementation and operation | 13 |
| 4.5.1 | General | 13 |
| 4.5.2 | Competence, training and awareness | 13 |
| 4.5.3 | Communication | 14 |
| 4.5.4 | Documentation | 14 |
| 4.5.5 | Operational control | 15 |
| 4.5.6 | Design | 15 |
| 4.5.7 | Procurement of energy services, products, equipment and energy | 15 |
| 4.6 | Checking | 16 |
| 4.6.1 | Monitoring, measurement and analysis | 16 |
| 4.6.2 | Evaluation of compliance with legal requirements and other requirements | 16 |
| 4.6.3 | Internal audit of the EnMS | 16 |
| 4.6.4 | Nonconformities, correction, corrective action and preventive action | 17 |
| 4.6.5 | Control of records | 17 |
| 4.7 | Management review | 17 |
| 4.7.1 | General | 17 |
| 4.7.2 | Input to management review | 17 |
| 4.7.3 | Output from management review | 18 |
| | Annex A (informative) Guidance on the use of this International Standard | 19 |
| | Annex B (informative) Correspondence between ISO 50001:2011, ISO 9001:2008, ISO 14001:2004 and ISO 22000:2005 | 25 |
| | Bibliography | 2 |