

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