



***Society of Cable
Telecommunications
Engineers***

ENGINEERING COMMITTEE
Energy Management Subcommittee

AMERICAN NATIONAL STANDARD

ANSI/SCTE 234 2016

**ISO 50001:2011 Energy Management Systems, Energy
Metrics, With Guidance For Use**

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1. Introduction

1.1. Executive Summary

SCTE's Energy 2020 Program is a multi-year campaign that aims to provide cable system operators with the energy management standards, technology innovation, organizational solutions and training that look to help the cable industry meet Energy 2020's goals. In 2011 the International Organization for Standardization (ISO) published 50001: Energy management systems -- Requirements with guidance for use. SCTE's Energy 2020 Program aligns with the underlying principles of that publication and SCTE 234 2016 serves as the recognition of that international standard as the official cable industry standard.

1.2. Scope

ISO 50001:2011 specifies requirements for establishing, implementing, maintaining and improving an energy management system, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy use and consumption.

ISO 50001:2011 specifies requirements applicable to energy use and consumption, including measurement, documentation and reporting, design and procurement practices for equipment, systems, processes and personnel that contribute to energy performance.

ISO 50001:2011 applies to all variables affecting energy performance that can be monitored and influenced. ISO 50001:2011 does not prescribe specific performance criteria with respect to energy, however the cable industry has come together to publish its performance criteria in the SCTE Standards supporting Energy 2020 found at http://www.scte.org/SCTE/Areas_of_Interest/SCTE_Energy_Standards_and_Operational_Practices.aspx

ISO 50001:2011 is applicable to any company in the cable industry wishing to develop an energy policy and ensure that business practice conforms to its stated energy policy and wishing to demonstrate this to others, such conformity being confirmed either by means of self-evaluation and self-declaration of conformity, or by certification of the energy management system by an external organization.

1.3. Benefits

Energy 2020 and the recognition of ISO 50001 enables companies in the cable industry to hedge growing energy costs and power availability challenges, and sustain those benefits over the long term. Adoption of ISO 50001 specifically will enable the following short and long term benefits:

- Reduced environmental impact
- Increased transparency on how energy resources are managed
- Identification of future projects that will integrate into your new structure
- Promotion of energy efficiency throughout the cable operator's organization
- Improved positive external relations and public image
- Increased awareness and greater employee energy stewardship
- Reduced air emissions, such as greenhouse gases
- Increased assurance of internal energy use compliance
- Increased understanding of energy use and consumption via defined methods, metrics, goals and processes of data collection
- Reduced maintenance costs from better managed IT and cooling equipment
- Increased capacity in facilities by improved power utilization