



*NSF International Standard /
American National Standard*

NSF/ANSI 426 - 2017

**Environmental Leadership and
Corporate Social Responsibility
Assessment of Servers**



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NSF International Standard/
American National Standard
for Sustainability—

**Environmental Leadership and Corporate Social
Responsibility Assessment of Servers—**

Standard Developer

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Foreword²

This American National Standard, NSF/ANSI 426 Environmental Leadership and Corporate Social Responsibility Assessment of Servers, has been developed as part of the ongoing efforts of a number of interested parties to document and improve the environmental and corporate performance profile of servers using established and advanced scientific principles, practices, materials, and standards.

The purpose of this Standard for servers is to establish product environmental performance criteria and corporate performance metrics that exemplify environmental leadership and corporate social responsibility in the market. These performance criteria are intended to form the basis of conformity assessment programs, such as third-party certification or registration.

Suggestions for improvement of this Standard are welcome. This Standard is maintained on a Continuous Maintenance schedule and can be opened for comment at any time. Comments should be sent to Chair, Joint Committee on Environmental Standard for Servers at standards@nsf.org, or NSF International, Standards Department, P.O. Box 130140, Ann Arbor, Michigan 48113-0140, USA.

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NSF/ANSI Standard for Sustainability—

Environmental Leadership and Corporate Social Responsibility Assessment of Servers—

1 Overview

1.1 Scope

This Standard defines environmental and corporate social responsibility performance criteria for computer servers as defined in the ENERGY STAR Server specification³.

This Standard establishes criteria for multiple levels of environmental leadership and corporate social responsibility performance throughout the product life cycle, relating to energy efficiency; management of substances; preferable materials use; product packaging; design for repair, reuse and recycling; product longevity; responsible end-of-life management; and corporate responsibility.

1.2 Purpose

The purpose of this Standard for servers is to establish product environmental performance criteria and corporate performance metrics that exemplify environmental leadership and corporate social responsibility in the market.

The Standard provides a framework and standardized set of performance objectives for manufacturers and the supply chain in the design and manufacture of servers and server components. For purchasers, this Standard provides a consensus-based definition of key environmental and corporate social responsibility attributes and performance metrics, alleviating individual purchasers from the arduous and complex task of defining environmental and corporate social responsibility performance for servers and server manufacturers. This Standard can be used within an established system for the identification of environmentally preferable products by purchasers and to provide market recognition for conforming products and brand manufacturers.

This Standard is an environmental leadership and corporate social responsibility Standard, defined with the recognition that only leading products, i.e., approximately 25 – 35% of the products available in the marketplace, would be likely to qualify to the base or Bronze level, and even fewer at the Silver and Gold levels, at the date of publication of this Standard, although this Standard does not limit the number of products that can so qualify. As the environmental performance of products and that are available in the marketplace, and corporate social responsibility of server manufacturers, improves, it is intended that the criteria will be updated and revised to set a higher performance Standard for leadership products.

This Standard will be continually maintained and periodically reviewed to ensure that the definition of environmental leadership and corporate social responsibility, as reflected in the performance criteria, progresses with the evolution of technology and services and environmental and corporate social responsibility improvements in the product sector.

³ ENERGY STAR 1200 Pennsylvania Ave NW Washington, DC 20460 <www.energystar.gov>

2 Normative references

The following referenced documents are indispensable for the application of this document. Each referenced document is cited in text and its relationship to this document is explained. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies. European Union Directives, which contain the adoption date in their title, shall not be treated as “dated Standards or regulations” (as defined above). Unless explicitly indicated otherwise, when a European Union Directive is referenced in this Standard, a new or updated European Union Directive shall apply as the referenced Directive upon its enforcement date.

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American Society of Heating, Refrigerating, and Air-conditioning Engineers (ASHRAE) *Thermal Guidelines for Data Processing Environments, 4th Edition*⁵

ANSI/AIHA/ASSE Z10, Occupational Health and Safety Management System⁶

ASTM D256, Standard Test Methods for Determining the Izod Pendulum Impact Resistance of Plastics⁷

ASTM D7611/D7611M, Standard Practice for Coding Plastic Manufactured Articles for Resin Identification⁷

BizNGO Chemical Alternative Assessment Protocol⁸

BS EN 15343:2007, Plastics. Recycled plastics. Plastics recycling traceability and assessment of conformity and recycled content⁹

Clean Cargo Working Group (CCWG)¹⁰

Conflict Free Tin Initiative¹¹

DIN 6120-1 - *Marking of packaging and packaging materials for recycling purposes - Plastics packaging and packaging materials - Part 1: Graphical symbols*¹²

EcoTransIT¹³

ECMA-341 Environmental Design Considerations for ICT & CE Products, 4th Edition / December 2010¹⁴

⁴ Ecova Plug Load Solutions 5000-1313 North Atlantic Street Spokane, Washington USA 99201 <<http://www.plugloadsolutions.com>>

⁵ American Society of Heating, Refrigeration, and Air-Conditioning Engineers, Inc., 1791 Tullie Circle, NE, Atlanta, GA 30329-2305 <www.ashrae.org>

⁶ ASSE International Office, 901 Canterbury, Suite A, Westlake, OH 44145 <www.asse.org>

⁷ ASTM International, 100 Barr Harbor Dr., West Conshohocken, PA 19428 <www.astm.org>

⁸ Clean Production Action 1310 Broadway, Suite 101 Somerville, MA 02144 <<http://www.bizngo.org/>>

⁹ British Standard, 389 Chiswick High Road, London W4 4AL United Kingdom <www.bsi-global.com>

¹⁰ Business for Social Responsibility 5 Union Square West, 6th Floor New York, NY 10003, USA <www.bsr.org>

¹¹ Conflict Free Tin Initiative <<http://solutions-network.org/>>

¹² European Standards Krimicka 134 318 13 Pilsen Czech Republic VAT: CZ7908212026 <<http://www.en-standard.eu/>>

¹³ EcoTransIT World IVE mbH Lützerodestraße 10 D-30161 Hanover Germany <<http://www.ecotransit.org/>>

¹⁴ ECMA International Rue du Rhone 114 CH-1204 Geneva, Switzerland <<https://www.ecma-international.org>>