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# NASA Procedural Requirements

**COMPLIANCE IS MANDATORY****NPR 8570.1A**  
Effective Date: July 12, 2013  
Expiration Date: July 12,  
2018[Printable Format \(PDF\)](#)

Request Notification of Change (NASA Only)

**Subject: NASA Energy Management Program****Responsible Office: Environmental Management Division**[| TOC](#) | [Preface](#) | [Chapter1](#) | [Chapter2](#) | [Chapter3](#) | [AppendixA](#) | [AppendixB](#) | [ALL](#) |

## Preface

### P.1 Purpose

a. This NASA Procedural Requirement (NPR):

(1) Implements applicable requirements for the Energy Management (EM) Program under NASA Policy Directive (NPD) 8500.1 NASA Environmental Management to manage the EM Program and activities.

(2) Establishes the requirements and responsibilities by which NASA will reduce energy risk to mission through life-cycle cost-effective compliance with Federal law, Executive Orders, and NASA policy regarding increasing the use of renewable energy sources and energy efficiency and conservation methods.

(3) Promotes NASA Headquarters support of Center and Component Facility comprehensive energy programs.

(4) Enhances energy security and energy resource availability for future mission requirements through the EM Program comprehensive, integrated approach to energy strategy development; energy risk management; master and project planning; and design, implementation, operation, maintenance, and management of energy systems and assets.

(5) Promotes mitigation of energy-related climate change risks and impacts, availability of cleaner energy sources, and improved air quality.

b. NPD 8500.1, NASA Environmental Management, establishes NASA policy to reduce energy risk to mission, maintain compliance with applicable external requirements, and promote energy conservation. Center/Component Facilities are responsible for achieving these external requirements at the local level.

c. Strengthening Federal Environmental, Energy, and Transportation Management, EO 13423, requires embedding energy management in the environmental management system (EMS) at the Agency and Center/Component Facility levels.

d. This NASA Procedural Requirement (NPR) has been substantially restructured to streamline the requirements for energy management and place complementary guidance and contextual information into a companion handbook. The NASA Energy Program Guidance Handbook describes how energy programs and projects are managed in NASA and contains explanatory material to help understand the requirements of this NPR. The handbook can be found on the "Other Policy Documents" menu in the NASA On-Line Directives Information System (NODIS).

### P.2 Applicability

a. This NPR is applicable to NASA Headquarters and NASA Centers, including Component Facilities and Technical and Service Support Centers. This language applies to Jet Propulsion Laboratory (JPL), a Federally Funded Research and Development Center (FFRDC), other contractors, grant recipients, or parties to agreements only to the extent specified or referenced in the appropriate contracts, grants, or agreements.

- b. In this directive, all mandatory actions (i.e., requirements) are denoted by statements containing the term "shall." The terms: "may" or "can" denote discretionary privilege or permission, "should" denotes a good practice and is recommended, but not required, "will" denotes expected outcome, and "are/is" denotes descriptive material.
- c. The EM Program guidance, including analyses, processes, methods, templates, and practices will describe how the "shall" and "will" statements may be met.
- d. In this directive, all document citations are assumed to be the latest version, unless otherwise noted.

### **P.3 Authority**

- a. The Budget and Accounting Procedures Act, 31 U.S.C. §3513 (a).
- b. The National Energy Conservation Policy Act, 42 U.S.C. § 8251, et seq.
- c. Energy Policy Act of 2005, Public Law 109-58.
- d. The Energy Independence and Security Act of 2007, Public Law 110-140.
- e. Omnibus Appropriations Act of 2009, Public Law 111-8 § 748.
- f. Policy on Environmental Quality and Control, 14 C.F.R. § 1216.1.
- g. Energy and Water Efficiency and Renewable Energy, 48 C.F.R. Pt. 23, Subpart 23.2.
- h. Energy Efficient Standby Power Devices, Executive Order 13221, 66 Federal Register 40571, August 2, 2001.
- i. Strengthening Federal Environmental, Energy, and Transportation Management, Executive Order 13423, 72 Federal Register 3919, January 26, 2007.
- j. Federal Leadership In Environmental, Energy, and Economic Performance, Executive Order 13514, 74 Federal Register 52117, October 8, 2009.
- k. NPD 8500.1, NASA Environmental Management.

### **P.4 Applicable Documents and Forms**

- a. Retention of Energy and Water Savings, 42 U.S.C. 8256 (e).
- b. The Public Health and Welfare Act, 42 U.S.C. § 8262 c.
- c. Federal Energy Management and Planning Programs, 10 Code of Federal Regulations (C.F.R.), Part (Pt.) 436.
- d. Acquisition of Utility Services, NASA Federal Acquisition Regulation Supplement (NFS) Part 1841.
- e. Federal Leadership in High Performance and Sustainable Buildings Memorandum of Understanding, January 2006
- f. NPD 1000.0, NASA Governance and Strategic Management Handbook.
- g. NPD 1000.3, The NASA Organization.
- h. NPD 7330.1, Approval Authorities for Facility Projects.
- i. NPD 8800.14, Policy for Real Estate Management.
- j. NPD 8820.2, Design and Construction of Facilities.
- k. NPD 8831.1, Maintenance of Institutional and Program Facilities and Related Equipment and Related Equipment.
- l. NPR 8530.1, Affirmative Procurement Program and Plan for Environmentally Preferable Products.
- m. NPR 8800.15, Real Estate Management Program.
- n. NPR 8810.1, Master Planning Procedural Requirements.
- o. NPR 8820.2, Facility Project Requirements.
- p. NPR 8831.2, Facilities Maintenance and Operations Management.
- q. NPR 8553.1, NASA Environmental Management System.

### **P.5 Measurement/Verification**

- a. Conformance with this NPR is verified by submission of required documents to NASA officials. NASA

Headquarters monitors energy regulatory compliance through Environmental and Energy Functional Reviews. Compliance with energy regulations is also monitored by external agencies. To meet reporting requirements of the Office of Management and Budget and other agencies, NASA developed the NASA Environmental Tracking System (NETS), in which energy performance data is collected and Centers report on established metrics for energy efficiency, energy conservation measures, and increased use of renewable energy.

## P.6 Cancellation

NPR 8570.1, Energy Efficiency and Water Conservation, dated March 15, 2001.

Original Signed by

Dr. Woodrow Whitlow, Jr.  
Associate Administrator for  
Mission Support Directorate

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