

# Energy Efficient Product Procurement (EEPP)

*FEMP Designated, ENERGY STAR Certified, and the Law*



# Energy Efficient Purchasing Requirements

- Agencies must purchase ENERGY STAR Certified or FEMP Designated Products.
  - EPA’s ENERGY STAR Certification and FEMP’s program cover different products.
- Federal acquisition rules apply to **all** federal purchases whether purchased directly by a federal agency, on behalf of a federal agency, and/or for use on federal property. This includes, but is not limited to:
  - Service contracts
  - Performance contracts
  - P-card purchases
- If it uses energy, it is subject to energy efficiency purchasing requirements.

- 42 U.S. Code § 8259b
- 42 U.S. Code § 8262g
- FAR Part 23

# Exceptions: Energy Efficiency Purchasing Requirements

- Exceptions to the energy efficiency purchasing requirements are limited and **must be documented** in the acquisition package.

Exceptions include:

- No product meets the functional requirements and is either ENERGY STAR-certified product or meets the FEMP-designated performance requirement.
- There is not a life cycle cost-effective product that is either ENERGY STAR-certified or meets the FEMP-designated efficiency requirement.
- **Some less common products are not covered by either program. Even though it is not a covered product, purchasers are encouraged to consider energy efficiency.**
  - For example: specialty equipment such as microscopes, X-ray machines, etc.

# 42 U.S. Code § 8259b - Federal Procurement of Energy Efficient Products

## (b) Procurement of energy efficient products

### (1) Requirement

To meet the requirements of an agency for an energy consuming product in a product category covered by the Energy Star program or the Federal Energy Management Program for designated products, the head of the agency shall, except as provided in paragraph (2), procure—

- (A) an Energy Star product; or
- (B) a FEMP designated product.

### (2) Exceptions

The head of an agency is not required to procure an Energy Star product or FEMP designated product under paragraph (1) if the head of the agency finds in writing that—

- (A) an Energy Star product or FEMP designated product is not cost-effective over the life of the product taking energy cost savings into account; or
- (B) no Energy Star product or FEMP designated product is reasonably available that meets the functional requirements of the agency.

# FAR Part 23.103 Policy

## FAR Part 23.103 (a) (2)

When considering whether the price of a sustainable product is reasonable, agencies should consider whether the product is cost-effective over the life of the product. For ENERGY STAR® or Federal Energy Management Program (FEMP)-designated products, a price is reasonable if it is cost-effective over the life of the product taking energy cost savings into account ( 42 U.S.C. 8259b(b)(2)). Life-cycle cost savings tools for energy-efficient products are available at [https://www.energystar.gov/buildings/save\\_energy\\_commercial\\_buildings/ways\\_save/energy\\_efficient\\_products](https://www.energystar.gov/buildings/save_energy_commercial_buildings/ways_save/energy_efficient_products) and <https://www.nrel.gov/analysis/tech-lcoe.html>.

## FAR Part 23.107-3 Energy-consuming products and water-consuming products.

(c) *Procedures.* To the maximum extent practicable in accordance with 23.104(a), unless a justification, exception, or exemption applies (see 23.104(a), 23.105, and 23.106, respectively)—

(1) When acquiring energy- and water-consuming products listed in the ENERGY STAR® Program or FEMP—

(i) Agencies shall purchase ENERGY STAR® certified or FEMP-designated products; and

(ii) For products that consume power in a standby mode and are listed on FEMP's Low Standby Power Devices product listing at <https://www.energy.gov/eere/femp/low-standby-power-product-list>, agencies shall—

# ENERGY STAR Certified or FEMP Designated?

Program	Boiler Type	Size (Input)	Output	Gas-Fired	Oil-Fired
ENERGY STAR	Residential	Less than 300 MBH	Hot Water	≥ 90.0%	≥ 87.0%
	Packaged Boiler / Small Commercial	300 MBH - 2,500 MBH	Hot Water	≥ 94.0%	N/A
FEMP	Large Commercial	2,500 MBH - 10,000 MBH	Hot Water	≥ 96.0%	≥ 89.0%
			Steam	≥ 83.0%	≥ 85.5%

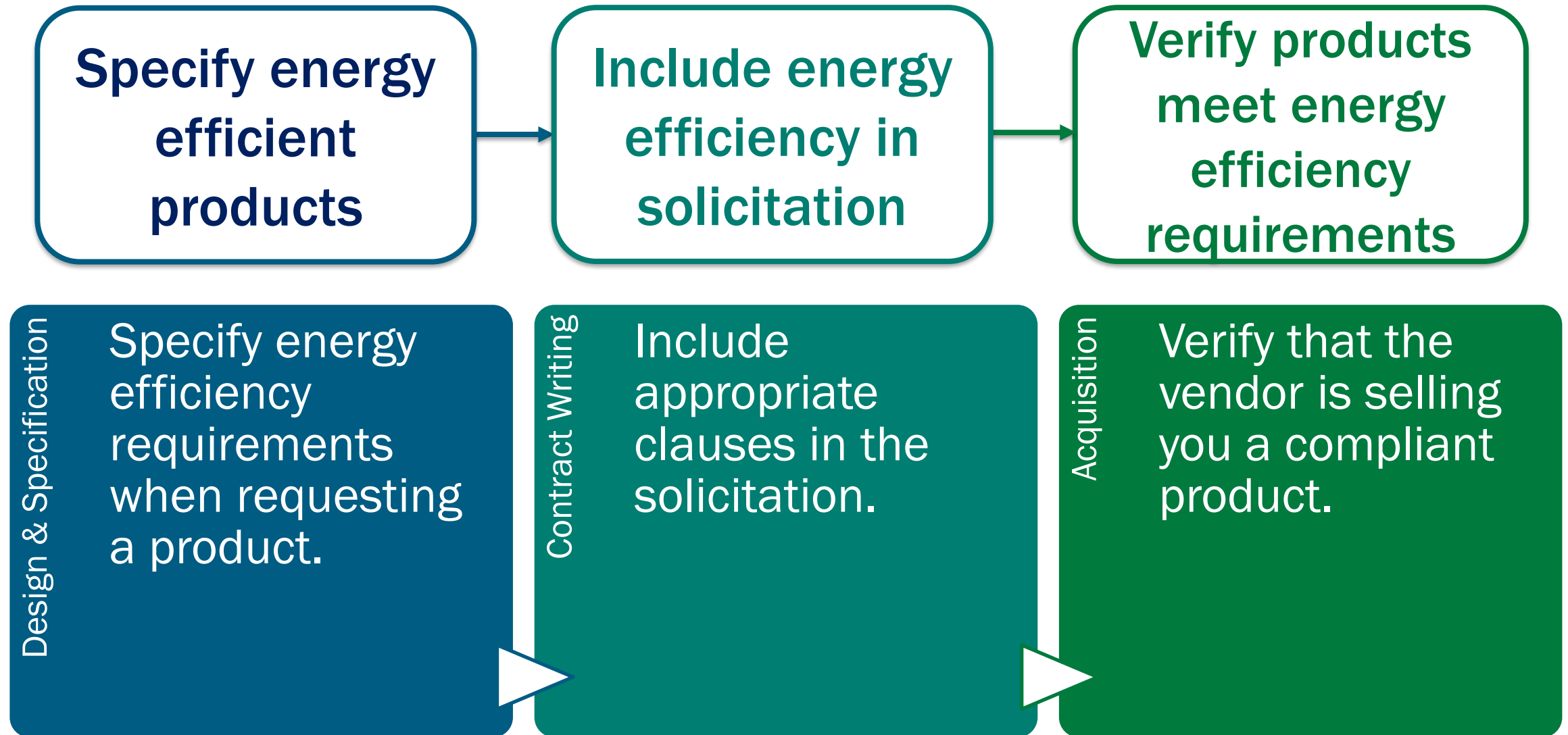
The ENERGY STAR program certifies individual products.

- FEMP designates the minimum efficiency standard for covered products.
- The efficiency standard represents the top 25% of products available on the market.
- Each product efficiency standard is updated every two years.

# Who is responsible for meeting sustainable purchasing requirements?



# Energy Efficiency Requirements in the Acquisition Process





# FEMP's Energy Efficient Product Procurement Page (EEPP)

Product Type -

- Appliances and Food Service
- Electric Vehicle Products
- Electronics and Information Technology
- Heating and Cooling
- Lighting
- Other
- Water Consuming Devices

Efficiency Program -

- ENERGY STAR
- EPEAT
- FEMP Designated

Showing 1 to 17 of 17 entries (filtered from 85 total entries)

COVERED PRODUCT CATEGORY	PRODUCT TYPE	EFFICIENCY PROGRAM
Air-Source Heat Pumps (Residential)	Heating and Cooling	ENERGY STAR
Boilers (Residential)	Heating and Cooling	ENERGY STAR
Boilers, Large (Commercial)	Heating and Cooling	FEMP Designated
Boilers, Small (Commercial)	Heating and Cooling	ENERGY STAR
Ceiling Fans (Residential)	Heating and Cooling	ENERGY STAR
Central Air Conditioners (Residential)	Heating and Cooling	ENERGY STAR
Electric Chillers, Air-Cooled (Commercial)	Heating and Cooling	FEMP Designated
Electric Chillers, Water-Cooled	Heating and	FEMP Designated

[www.energy.gov/femp/search-energy-efficient-products](http://www.energy.gov/femp/search-energy-efficient-products)

# Large Commercial Boilers (FEMP Designated)

## Find Product Efficiency Requirements

Federal purchases of commercial boilers must meet or exceed the minimum efficiency requirements and thermal efficiencies listed in Table 1. These efficiency levels can be voluntarily adopted by non-federal organizations, institutions, and purchasers.

Product Class	Rated Capacity	Fuel	Heating Medium	Efficiency* (%)
Large Gas-Fired Hot Water	>2,500,000 Btu/h and ≤10,000,000 Btu/h	Gas	Hot Water	$E_c \geq 96.0$
	Btu/h and ≤10,000,000	Gas	Steam	$E_t \geq 83.0$

### Purchasing Requirements



**Federal laws and requirements** mandate that agencies purchase ENERGY STAR-qualified products or FEMP-designated products in all product categories covered by these programs and in any acquisition actions that are not specifically exempted by law.

### FAR Contract Language



Federal Acquisition Regulation (FAR) Part 23.206 requires agencies to insert the **clause at FAR section 52.223-15** into contracts and solicitations that deliver, acquire, furnish, or specify energy-efficient products for use by federal government agencies.

[www.energy.gov/femp/search-energy-efficient-products](http://www.energy.gov/femp/search-energy-efficient-products)



Home » Federal » HVAC and Mechanical

Custom product lists

Products

Boilers



Product Details



Legal Requirements



Life Cycle Cost Savings



Additional Guidance



Guiding Principles

Air Conditioner Coil Cleaners

Air Conditioning, Central

Air Conditioning, Room

Air Purifiers (Cleaners)

Chillers

Commercial Gas Water Heaters

Dehumidifiers

Ductless Heating and Cooling

Furnaces

Heat Pumps, Air-Source

Heat Pumps, Geothermal or Ground-Source

HVAC Maintenance Products

Boilers

Last Updated: 02/27/24



Click to see brand name products that meet these requirements



A self contained fuel burning appliance of less than 300,000 Btu per hour energy input, for supplying low pressure steam or hot water for space heating applications. A heating unit that meets this definition and also provides hot water for domestic or other use is considered a boiler for purposes of this agreement.



PRODUCT DETAILS

To the maximum extent practicable, federal agencies are required to buy sustainable products, which are products that meet the purchasing program(s) listed below.

If there is more than one program listed below, agencies are directed to prioritize multi-attribute products, which meet statutory purchasing program requirements (\*) and one or more required Environmental Protection Agency purchasing programs.

Review our [frequently asked questions](#) for more information.

PRODUCT TYPE

PROCUREMENT INFO

WHERE TO BUY

Commercial

FEMP \*

Energy Star \*

[Buy on GSA Advantage!](#)

Residential

Energy Star \*

[Buy on GSA Advantage!](#)

SFTool.gov  
Boiler  
Information

# How FEMP Supports Agencies

- Energy Efficient Product Selection Guidance and Other Technical Resources
- Training Resources
  - Full-Length Trainings
    - FEMP Whole Building Design Guide (WBDG)
  - Take Five Videos
    - What is Energy Efficiency
    - Energy Efficiency Requirements for Acquisition
    - Buying a Heat Pump
    - Buying Energy-Efficient Lighting
    - Buying Low Carbon Food Services
    - Life Cycle Cost Effectiveness [Coming Soon]

## BUYING A HEAT PUMP



## BUYING ENERGY-EFFICIENT LIGHTING



[www.energy.gov/femp/energy-efficient-product-procurement-training-federal-agencies](http://www.energy.gov/femp/energy-efficient-product-procurement-training-federal-agencies)

# Questions?

## Key Links for More Information

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GSA's Sustainable Facilities Tool  
[SFTool.gov](http://SFTool.gov)



ENERGY STAR Products  
[www.ENERGY STAR.gov/products](http://www.ENERGY STAR.gov/products)

FEMP's Energy Efficient Product Procurement Page (EEPP)  
[www.energy.gov/femp/search-energy-efficient-products](http://www.energy.gov/femp/search-energy-efficient-products)