



Federal Office  
for Economic Affairs  
and Export Control



# Energy Audits and Energy Management Systems in the EED implementation: Input from Germany

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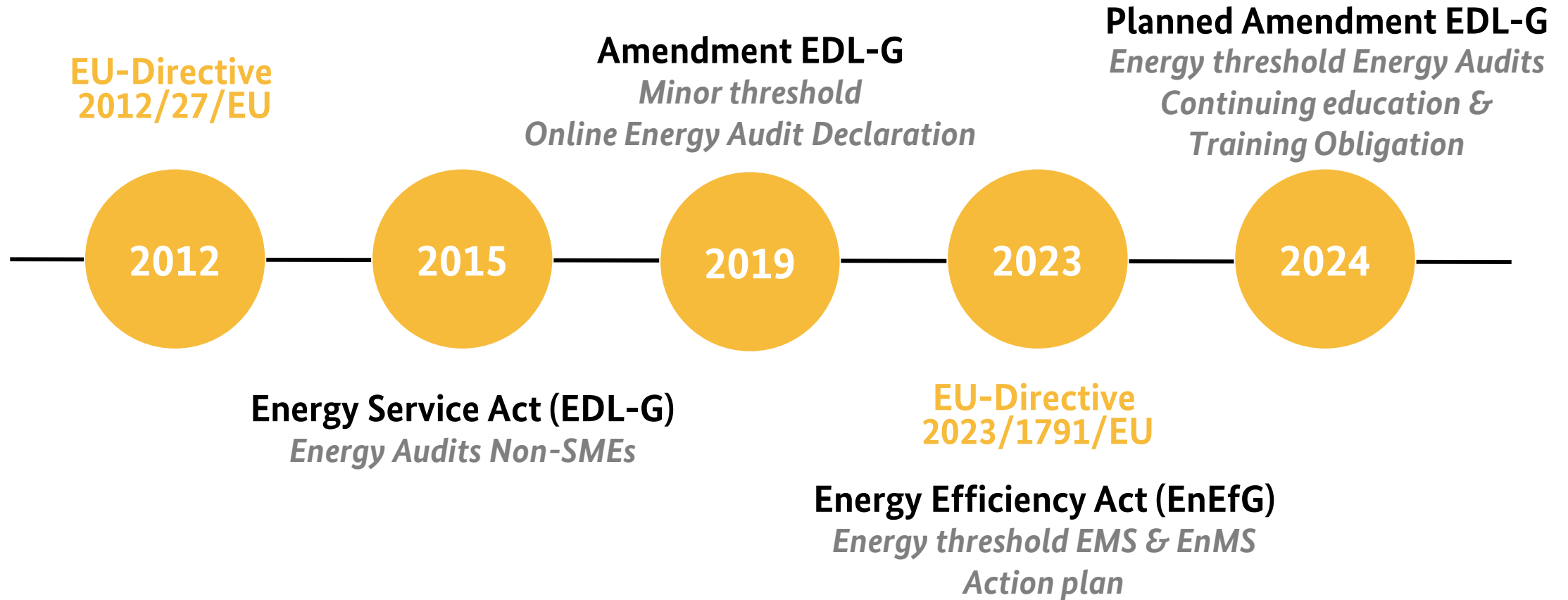
at the Federal Office for the Economic Affairs and Export Control (BAFA), Germany

# Outline

1. Status of Implementation of the EED in Germany
2. Action Plans according to § 9 EnEfG
3. Data Collection and Evaluation

# 1. Status of Implementation of the EED in Germany

# Timeline of National Implementation



# National Implementation in Detail

Art. 8 EED (2012/27/EU) as of 12/2012		Implementation in Germany: Energy Service Act (EDL-G) as of 11/2023	
Sec. 4:	<ul style="list-style-type: none"> <li>Obligation to carry out <b>energy audits</b> in non-SMEs</li> <li><b>Monitoring</b> by authorities</li> </ul>	Para. 8:	<b>Performance of energy audits; exemption from obligation</b> <ul style="list-style-type: none"> <li>Obligation for all non-SMEs, to be carried out every four years</li> <li>Minor threshold of <b>0,5 GWh</b> for carrying out an energy audit (since 2019)</li> <li>Exemption for companies with EMS or EnMS</li> </ul>
Sec. 6:	<b>Exemption</b> of companies that set up an <ul style="list-style-type: none"> <li><b>Energy management system</b> (EnMS) or</li> <li><b>Environmental management system</b> (EMS)</li> </ul>		
Sec. 1:	<ul style="list-style-type: none"> <li>Performance of energy audits by <b>independent experts</b></li> <li>Annual <b>random selection</b> of all energy audits</li> </ul>	Para. 8b	<b>Requirements for the persons carrying out the energy audit</b> <ul style="list-style-type: none"> <li>Specialist knowledge: training (university degree, master craftsman or technician in relevant specialist field)</li> <li>three years of full-time professional activity and participation in further training* 12 h/a (<b>*excluded</b>)</li> </ul>
		Para. 8c	<b>Verification management</b> <ul style="list-style-type: none"> <li>Submission of an <b>online energy audit declaration</b></li> <li>Spot checks</li> </ul>
Sec. 5:	<ul style="list-style-type: none"> <li>minimum <b>criteria</b> in accordance with <b>Annex VI</b></li> </ul>	Para. 8a	<b>Requirements for energy audits; availability of energy audits</b> <ul style="list-style-type: none"> <li>Meet the requirements of <b>DIN EN 16247-1</b></li> <li>Economic efficiency calculation must be based on the net present value calculation method</li> <li>Be proportionate and representative (<b>90% rule</b>)</li> </ul>
Sec. 7:	Voluntary <b>assessment</b> of a connection to a district heating or cooling network.		



# National Implementation in Detail

## Art. 11 EED (2023/1791/EU) as of 13th Sept. 2023

## Implementation in Germany: Energy Efficiency Act (EnEfG) (as of 11/2023)

- Sec. 1:**
- Establishment of an **energy management system** in companies that consume **> 85 Tj** (23.61 GWh) of energy.
  - EnMS in place at the latest by 11 October 2027

- Para. 8: Establishment of EnMS or EMS**
- Mandatory for companies with an average total final energy consumption of **≥ 7.5 GWh** in the last three completed calendar years
  - Establishment **within 20 months, from November 18, 2023** or at the beginning of the year (on 01.01.20XY)
  - Additional requirements:
    - Recording and evaluation of waste heat potential,
    - Identification and presentation of final energy saving measures as well as measures for waste heat recovery and utilization
    - Economic evaluation of the identified measures in accordance with DIN EN 17463 (net present value method)

- Sec. 2:**
- Conducting **energy audits** in companies that do not operate an EnMS and have an energy consumption of more than **> 10 Tj** (2.77 GWh).
  - Results are to be published in the form of **action plans**.

- Para. 9: Action plans for final energy saving measures**
- Preparation and publication from **2.5 GWh** average total final energy consumption
  - Recording from a positive net present value, after a maximum of 50% of the useful life (max. 15 years)
  - Publication within three years
  - Review and approval of the action plans by **external third parties**

- Sec. 5:**
- Verification of the **qualifications** of the persons carrying out the energy audit.

- Sec. 10:**
- **Exemption** through an **energy performance contract**

- Sec. 12**
- **Assessment** of connection to a **district heating or cooling network**.



## 2. Action Plans according to § 9 EnEfG

# Creation of Action Plans

## Content and Scope:

- according to § 9 EnEFG
  - Listing of the **economically feasible measures\***
  - **publicly** accessible (e.g. website, company report)
- Further content and scope is derived from standards DIN EN 16247-1:2022 and DIN EN ISO 50.001:2018-12 as well as EMAS:
  - the **resources required** to implement the measures
  - the **priority** of the individual measures
  - the **time frame** in which the measure is to be implemented and thus the target achieved
  - who is **responsible** for implementing the measure
  - who **monitors** the implementation of the measure

\*a positive net present value after max. 50% of the useful life (max. 15 years)



### 3. Data Collection and Evaluation

# Spot checks according to EDL-G and EnEfG

## § 8c EDL-G:

- Enterprises must declare conduct of energy audit to BAFA
- BAFA carries out spot checks on the **performance of energy audits**
- If a company that does not fall within the scope of application is requested to provide evidence and is therefore not obliged to carry out an energy audit, it must state in a self-declaration that it is an SME.

## § 10 EnEfG:

BAFA monitors by means of a spot check

- the establishment and **operation** of an **EnMS and EMS** and
- the preparation and publication of action plans

# Spot checks according to EDL-G and EnEfG



## Information in the feedback form

1. Information on the **average total final energy consumption**
2. **Type** of conduct
  - No obligation
  - Performance of an energy audit
  - Establishment of an EMS or EnMS
3. Information per **energy source** on total final energy consumption and energy costs
4. Information on the identified **final energy saving measure**
  - Measure category and designation
  - Investment costs of the measure
  - Economic efficiency
5. Information on **waste heat potentials**

Completion aid, available on the BAFA website:

[https://www.bafa.de/SharedDocs/Downloads/DE/Energie/ea\\_ausfuellhilfe\\_rueckmeldeformular.pdf?\\_\\_blob=publicationFile&v=2](https://www.bafa.de/SharedDocs/Downloads/DE/Energie/ea_ausfuellhilfe_rueckmeldeformular.pdf?__blob=publicationFile&v=2)

# Thank you for your attention!

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