

Be part of the solution and help us to gain insights on how to harness potentials in manufacturing!

**Economic Sector:**

Please select the economic sector in which your company realises the highest value added:

Extraction of crude petroleum and natural gas	6
Manufacture of basic metals	24
Manufacture of basic pharmaceutical products and pharmaceutical preparations	21
Manufacture of beverages	11
Manufacture of chemicals and chemical products	20
Manufacture of coke and refined petroleum products	19
Manufacture of computer, electronic and optical products	26
Manufacture of electrical equipment	27
Manufacture of fabricated metal products, except machinery and equipment	25
Manufacture of food products	10
Manufacture of furniture	31
Manufacture of leather and related products	15
Manufacture of machinery and equipment n.e.c.	28
Manufacture of motor vehicles, trailers and semi-trailers	29
Manufacture of other non-metallic mineral products	23
Manufacture of other transport equipment	30
Manufacture of paper and paper products	17
Manufacture of rubber and plastics products	22
Manufacture of textiles	13
Manufacture of tobacco products	12
Manufacture of wearing apparel	14
Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials	16
Mining of coal and lignite	5
Mining of metal ores	7
Other manufacturing	32
Other mining and quarrying	8
Printing and reproduction of recorded media	18

**Conversion Table:**

Unit	kWh	kJ	kcal	kg SKE <sup>1</sup>	kg RÖE <sup>2</sup>	BTU
1 kWh	1	3.600	860	0,123	0,086	3.412
1 kJ	0,000278	1	0,2388	0,000034	0,000024	0,94782
1 kcal	0,001163	4,1868	1	0,000143	0,0001	3,9657
1 kg SKE <sup>1</sup>	8,141	29.308	7,000	1	0,7	27.756
1 kg RÖE <sup>2</sup>	11,63	41.868	10,000	1,428	1	0,03967
1 m <sup>3</sup> gas (Hu)	9,7726	35.182	8.403	1,200	0,840	-
1 m <sup>3</sup> gas (Ho)	10,8300	38.988	9.312	1,330	0,931	-
1 BTU	0,000293	1,0551	0,2522	3,603	-	1

1 SKE: mineral coal unit; 2 RÖE: oil equivalent

**Participate:**

closing date for this collection is 30/11/20

- Mail: EEP - Institut for Energy Efficiency in Production  
Data Collection Energy Efficiency Barometer  
Nobelstr. 12, 70569 Stuttgart, Germany
- Fax: +49 (711) 970-1400
- Scan via E-mail: barometer@eep.uni-stuttgart.de
- Online: <https://www.eep.uni-stuttgart.de/eeei>

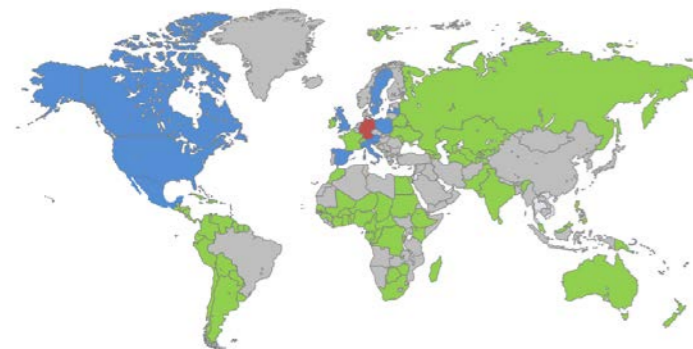


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- Participate in a survey specific to your country – an economic indicator is computed
- Participate in a survey specific to your country
- Participate in a language widely used in your country
- Participate in one of these languages: English, French, German, Russian or Spanish

With the **#EEBarometer**, we give **manufacturing companies** around the world the opportunity to make their views on energy efficiency and decarbonisation heard. This is possible in at least one of the languages widely spoken in **88 countries**.

In addition, we also offer **12 country-specific surveys** in the national language. All other manufacturing companies (not located in the aforementioned 12 countries) can share their views in the **global barometer**, which is available in 5 languages: English, French, German, Russian and Spanish.

In total, the surveys are available in the **10 languages: English, French, German, Italian, Latvian, Polish, Russian, Slovenian, Spanish and Swedish.**

We have taken the pulse of global manufacturing **since 2013**. The results inform the work of the **UNECE Industrial Energy Efficiency Task Force** and support the progress towards the energy and sustainability goals of the United Nations (SDG 7, 9, 11, 12 & 13).

The **Energy Efficiency Barometer** of Industry

1<sup>st</sup> Data Collection 2020

#EEBarometer



# The Energy Efficiency Barometer of Industry

1<sup>st</sup> Data Collection 2020

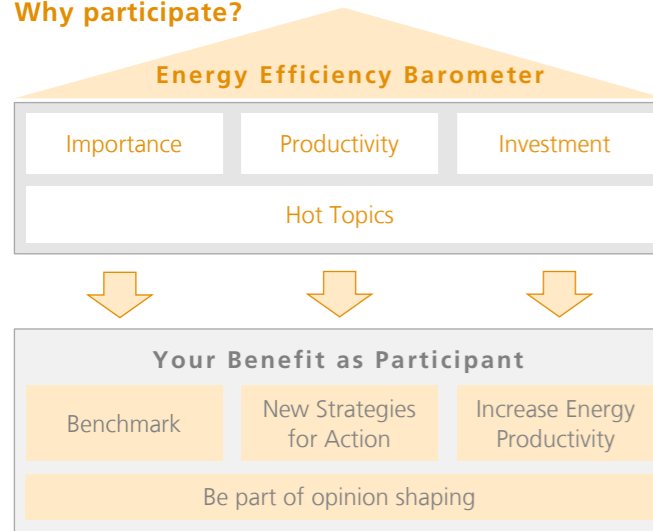
EU General Data Protection Regulation (GDPR) requirements are met.  
**Estimated** figures are sufficient.

Please answer these questions by: **30/11/2020**

Participate online: <https://www.eep.uni-stuttgart.de/eeei/>

For Questions: Stefan M. Buettner (Tel.: +49 711 / 970 -1156)

## Why participate?



## Be part of the Energy Efficiency Barometer!

- Participate by **30/11/2020** via this Flyer (mail/fax/scan) or online: <https://www.eep.uni-stuttgart.de/eeei/>
- Results are estimated to be published in **winter 2020/21**

## We keep you up to date!

To stay informed about

- current sector specific developments and solutions
- results and publications arising from these
- future data collections

please provide your **email address**:

Thank you very much for your support!

Prof. Dr.-Ing. Dipl.-Kfm.  
 Alexander Sauer,  
 Executive Director EEP

Dipl.-Vw. Stefan M. Buettner  
 Director Global Strategy & Impact EEP  
 Chair UNECE Industrial EE Task Force

## Special Issue Questions

Please note: These questions are not obligatory, but we do appreciate your response.

1. How effective do you consider your **government's climate policy measures** are to increase energy efficiency in industry?  
*effective*     *negative impact*
2. How do you assess **the potential contribution** of the following measures for the industry sector to help achieve energy efficiency targets? (1= high contribution, 2= low contribution, 3= no contribution, 4= negative contribution, 5= don't know)
  - Bundling and simplification of support programmes for industry, with a focus on complex and holistic production processes
  - Competitive allocation of funding with a focus on more ambitious, complex projects
  - Increased promotion & assistance with regard to resource efficiency
  - Expansion of minimum standards to increase the level of efficiency, with a focus on cross-cutting technologies
  - Promotion of low CO<sub>2</sub> production processes
  - Voluntary commitment for the implementation of recommended energy efficiency measures from energy audits/EnMS
  - Enlargement of state research and innovation programmes
  - Promotion of technologies and processes for the storage & use of CO<sub>2</sub>
3. Please indicate which of the following **measures** you are taking to **reduce the CO<sub>2</sub> footprint** of your company or products? (multiple choice)
  - Reduction of energy consumption through efficiency measures
  - Self-generation of renewable energy
  - Purchase of renewable energy  Compensatory measures
  - Requirements on the supply chain  No measures
4. Do you take energy and resource consumption as well as CO<sub>2</sub> footprint into account during **product development**?
  - Yes, with regard to the production process  Don't know
  - Yes, with regard to the entire product life cycle  No

Which of these factors has the **highest priority**?

Energy consumption  Resource consumption  CO<sub>2</sub> footprint
5. Are you planning to make your company **net-climate-neutral**?
  - Already implemented  Implementation started  Planned
  - No, for technical reasons  No, for economic reasons
  - No, for capacity reasons  Not yet determined
6. Do you consider your company primarily as a **supplier** to other companies?
  - Yes  No

7. In what way has the **COVID 19 pandemic** affected your company's energy efficiency strategy: Which of the following response options applies to your company?  
 Energy efficiency measures are (Multiple Choice)
  - expanded  expedited  delayed  reduced
  - unchanged
8. The following 7 factors are considered to drive the reduction of greenhouse gas emissions: Please indicate which 3 factors **motivate** your company most to reduce its greenhouse gas emissions? (please indicate TOP3: 1, 2, 3)
  - Customer requirements  Investor requirements
  - Government requirements  Reduction of cost risks
  - Corporate social responsibility
  - Image improvement (e.g. leadership role)
  - Long-term economic advantages (e.g. Competence development)
9. Taking into account the current level of greenhouse gas emissions for your company, by what **percentage** do you plan to reduce these emissions **by 2025**, including all compensatory measures?  
 \_\_\_\_\_ %
10. With regards to the decarbonisation target mentioned above: What **mix of measures** do you plan to implement? Please estimate the **distribution** of your measures among the following 5 options (in total 100%):
  - \_\_\_\_ % Reduction of energy consumption through energy efficiency measures
  - \_\_\_\_ % Reduction of process-related emissions (e.g. substitution of coke by hydrogen)
  - \_\_\_\_ % Self-generation of renewable energy (e.g. solar, wind, water, geothermal energy)
  - \_\_\_\_ % Purchase of renewable energy (e.g. electricity, biomass, heat)
  - \_\_\_\_ % Use of compensatory measures
11. Please indicate which 3 of the following 6 points are the **most decisive** in **determining** your decarbonisation mix. (please indicate TOP3: 1, 2, 3)
  - \_\_\_\_ Level of investment  Image effect through visible measures
  - \_\_\_\_ Cost per avoided ton of CO<sub>2</sub>-eq.  Expected productivity increase
  - \_\_\_\_ Technical aspects (e.g. complexity/difficulty of the measure)
  - \_\_\_\_ Implementation competence (e.g. experience, access to specialised staff)

## Core Indicators

Please note: We can only consider your answers in this section if you respond to all the obligatory questions below.

- My answers relate to...
- one specific site.  multiple sites.
- ### Importance of Energy Efficiency
- How do you **currently** rate the importance of energy efficiency to your company in general?
- relatively low  
 equal important to the other factors  
 relatively high
- In the **next 12 months**, do you think the importance of energy efficiency to your company will, overall...
- decrease,  
 remain more or less the same, or  
 increase?
- ### Investments into Energy Efficiency
- What percentage of your total investments can be attributed to improving energy efficiency?
- In the **previous 12 months** the share was ca. \_\_\_\_\_ %  
 In the **coming 12 months** the share will be ca. \_\_\_\_\_ %
- ### Improvement of Energy Efficiency
- On average, what percentage increase in energy efficiency ...?
- ... have you achieved over the **past 12 months** ca. \_\_\_\_\_ %  
 ... are you planning for the **next 12 months** ca. \_\_\_\_\_ %
- ### Information about your Company
- Sector number: \_\_\_\_\_ (see reverse page)
  - Number of Employees: \_\_\_\_\_
  - Country: \_\_\_\_\_
  - Turnover/Revenue of previous financial year: ca. \_\_\_\_\_ [Mio.] \_\_\_\_\_ [Currency]
  - Energy demand (all types of energy) over the **last 12 months** (overall): ca. \_\_\_\_\_ [Unit:] \_\_\_\_\_