

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 ¹ | kg RÖE ² | 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 ¹ | 8,141 | 29.308 | 7,000 | 1 | 0,7 | 27.756 |
| 1 kg RÖE ² | 11,63 | 41.868 | 10,000 | 1,428 | 1 | 0,03967 |
| 1 m ³ gas (Hu) | 9,7726 | 35.182 | 8.403 | 1,200 | 0,840 | - |
| 1 m ³ 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 23/05/21

- Mail: EEP - Institut for Energy Efficiency in Production
Data Collection Energy Efficiency Barometer
Nobelstr. 12, 70569 Stuttgart, Germany
- Fax: +49 (711) 970-3606
- Scan via E-mail: barometer@eep.uni-stuttgart.de
- Online: <https://www.eep.uni-stuttgart.de/eeei>

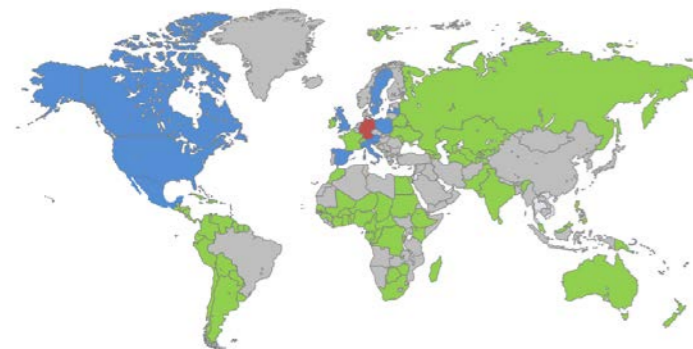


Contact:

Global Strategy & Impact / EEBarometer
Stefan M. Buettner
Tel.: +49 (711) 970-1156
E-Mail: stefan.buettner@eep.uni-stuttgart.de

Press & Media:

Dr. phil. Birgit Spaeth
Tel.: +49 (711) 970-1810
E-Mail: birgit.spaeth@eep.uni-stuttgart.de



- 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

Data Collection 2020/21
#EEBarometer



The Energy Efficiency Barometer of Industry

Data Collection 2020/21

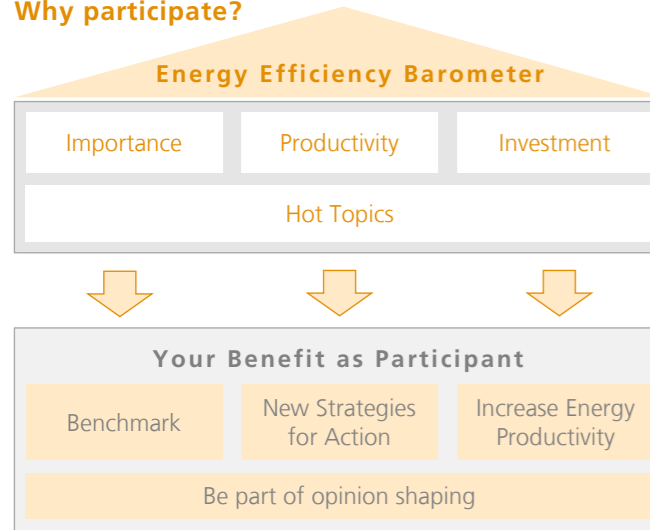
EU General Data Protection Regulation (GDPR) requirements are met.
Estimated figures are sufficient.

Please answer these questions by: **23/05/2021**

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 **23/05/2021** via this Flyer (mail/fax/scan) or online: <https://www.eep.uni-stuttgart.de/eeei/>
- Results are estimated to be published in **autumn 2021**

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.

- How effective do you consider your **government's climate policy measures** are to increase energy efficiency in industry?
effective *negative impact*
- 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 CO₂ 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 CO₂
- Please indicate which of the following **measures** you are taking to **reduce the CO₂ 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
- Do you take energy and resource consumption as well as CO₂ 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 CO₂ footprint
- 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
- Do you consider your company primarily as a **supplier** to other companies?
 Yes No

- 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
- 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)
- 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?
 _____ %
- 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
- 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 CO₂-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:] _____