

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 14/03/21

- 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>

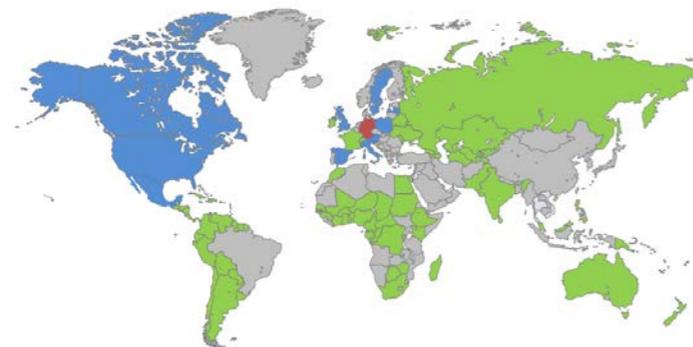


Contact:

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

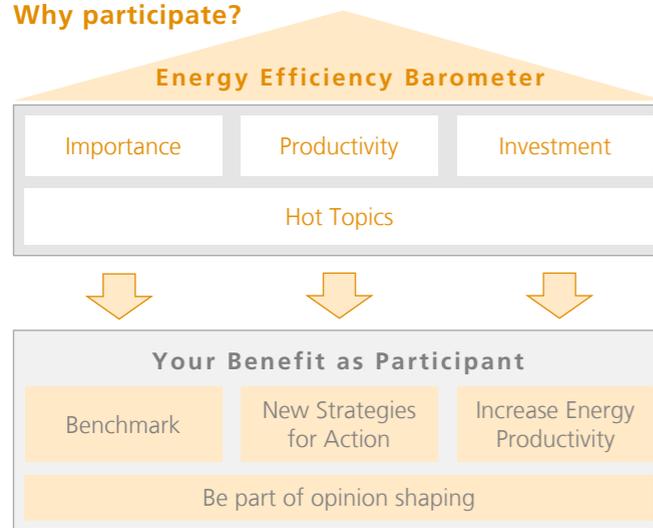
EU General Data Protection Regulation (GDPR) requirements are met.
Estimated figures are sufficient.

Please answer these questions by: **14/03/2021**

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

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

Why participate?



Be part of the Energy Efficiency Barometer!

- Participate by **14/03/2021** via this Flyer (mail/fax/scan) or online: <https://www.eep.uni-stuttgart.de/eeeei/>
- Results are estimated to be published in **summer 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.

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 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
3. 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
4. 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
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 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:] _____