



Energy Efficiency Award

Preparation form for Online applications

You want a perfect application to participate in the Energy Efficiency Award 2022? Follow the form below, which will lead you through the required information. We recommend to read the questions carefully and to reflect on the answers. For each question we provide a description field (black rimmed) in order to insert your respond.

Afterwards you can copy your answers into the online application form and submit your completed application to the German Energy Agency (dena) by clicking on the forward button in the end of the form.

We are looking forward to receive your application and wish you good luck!

Please consider in advance in which category you would like to apply.

The competition focuses on innovative approaches to energy efficiency and climate protection in industry, commerce and public companies in four categories:

- Think big! Complex energy transition projects
- From clever to digital! The range of energy efficiency
- Achieving more together! Energy services as enablers of the energy transition
- Concepts for a climate-neutral future! Ambitious climate protection targets, holistic transformation approaches and climate-friendly products

The competition categories are related to the sphere of activity that is relevant for the success of an integrated Energy Transition. The point of the integrated Energy Transition is to merge all energy producers and all consumer sectors. They should be linked into an intelligent energy system in order to reduce climate-damaging emissions. The companies need to increase their Energy Efficiency and if possible to optimize the energy system.

In the online form you can choose between the categories by a click on it.

→ Submit project > Wish to start in the competition category:

- Think big! Complex energy transition projects
- From clever to digital! The range of energy efficiency
- Achieving more together! Energy services as enablers of the energy transition

→ Or submit a concept



WHO CAN APPLY?

- Private companies, municipal or regional utility companies, universities
- There is no limit to the size of the company: from SMEs to large corporations, everyone is welcome!
- The competition entries can relate to individual and joint projects.

The closing date for entries is 11 June 2022.

APPLICATION STRUCTURE

Project description Projects (categories 1-3)

- When was the project implemented or when will it be completely implemented?
- Which measures were implemented or which are additionally planned?
- What energy savings were achieved or will be achieved in total when all measures have been implemented?
- Which investments were made or which will be made in total?

Other points

- Implementation in your own company or in another company
- contact details
- company size

WHAT ADVANTAGES DO YOU HAVE AS A PRIZEWINNER/NOMINEE?

Prize money totalling 30,000 euros is available for the prizewinning projects. However, the communication effect can be far more important, because companies awarded the Energy Efficiency Award position themselves as responsible, innovative and economically active companies. The award winners in particular are usually widely reported in the media.

But already the application offers a number of advantages. Each application for the Energy Efficiency Award is reviewed by dena employees. This generates professional attention. This is how companies and their energy efficiency projects become known at dena, which forms a central interface between politics and business and acts as an advisory agency for applied energy transition.

If your company is nominated for the Energy Efficiency Award, the project will be displayed on the website and you will receive a seal. In addition, all nominated companies will receive guest tickets for the first day of the dena Energiewende-Kongress 2022.



As a winning project in the category “Think big! Complex energy transition projects”, “From clever to digital! The range of energy efficiency” or “Achieving more together!” Energy services as enablers of the energy transition”: you will have the opportunity to present your innovative project at the dena Energiewende-Kongress 2022.

As a nominated project for the “Concepts for a climate-neutral future”, you will present your concept live on the big stage of the dena Energiewende-Kongress in a pitch. The winner will be determined by voting of the audience.

HOW DO I APPLY?

You can submit your project to the German Energy Agency (dena) by using the online form on <https://bewerbung.energyefficiencyaward.de/>

In the field "Description of the project" (in this document on page 6) 2,500 characters are available for input. However, you can upload additional documents or images in the online form for your project presentation. If certain mandatory fields do not apply to your project, you can enter "n/a".

This presentation should enable the expert jury to understand the project in a short time. You can view the information requested in the online form below:

Step 1

Applicant information

Please complete the information about your company. A meaningful profile is a prerequisite for participation in the Energy Efficiency Award. The information helps us with the formal and professional review of your competition entries and makes it easier for you to participate, since you can use your company profile to submit any number of projects or concepts, also with different partners. The fields have limited number of characters. If you want to send us information beyond that, you can upload files in step six.



Company name

Brief description of the company

Assignment

Please select:

- Private company
- Public sector company

Classification

Please select:

- SME¹
- no SME

Postal address

Street

House number

Postcode

City

¹ SME definition of the European Commission: Companies with no more than 249 employees and an annual turnover of no more than €50 million or a balance sheet total of no more than €43 million.



Federal State

Country

Industry segment

Contact person

Mr/Mrs/Mx

Title

First name

Surname

Function

E-mail



Phone number

mobile

Step 2

Project or concept

You can submit your competition entries for the Energy Efficiency Award 2022 in two different ways. Make your decision.

Submit a project

The project should already be completed and achieve real savings. Three content categories are available.

Submit a concept

The Audience Award recognizes entrepreneurial concepts that address the issue of climate neutrality and plausibly present steps for a transformation to climate-neutral business.

Step 3

Describe your project

You have decided to submit a project. Now start with the general information that describes your project.

Project name

Brief description of the project



Period in which the project was carried out

Project start

End of project

Desire to start in a certain competition category

▪ Think big! Complex energy transition projects

Examples of measures:

- Sector coupling e.g. power to heat, power to gas
- Demand side management and flexibilization
- Energy storage
- Electric mobility
- Use of renewable energies
- Combined heat and power generation and primary energy saving
- External waste heat utilisation
- Systemic measures, process optimisation
- Sustainability concepts and standards
- Carbon Footprint (products, processes)
- CO₂ reduction in the upstream and downstream chains

▪ From clever to digital! The range of energy efficiency

Examples of measures:

- Energy-efficient cross-sectional technologies (motors, pumps, compressed air, lighting)
- Efficient heat and cold generation
- Simple process optimization
- Internal waste heat utilisation and heat recovery
- Digitization, control and regulation technology
- Energy management systems and software solutions

▪ Achieving more together! Energy services as enablers of the energy transition

Examples of measures:

- Contracting (facilities, performance contracting)
- Innovative leasing and hire purchase models



- Energy consulting
- Externally supported controlling as well as energy and climate protection management
- Innovative financing models (funding)
- Cooperation and support of business networks
- Innovative integration and cooperation of energy service providers

Apply in this category if you have successfully implemented an energy efficiency project or energy transition project at your company as a service provider. You can also apply here if your company has implemented a project with the involvement of third parties and in cooperation with energy service providers.

Was the project developed together with partners?

- We developed the project independently and also implemented it in our own company.
- The project was developed by us, but implemented in another company. The application is therefore a joint application with:

Company name

Address

Contact person

E-mail

Phone

- The project was developed by another company, but implemented in our company. The application is therefore a joint application with:



Company name

Address

Contact person

E-mail

Phone

mobile

Step 4

Recording project key figures

Now add project-specific key figures. These serve to compare your project with other applications.

Investment in the project (without personnel costs) in €

Have grants or low-interest loans been used? If so, please select

- Germany: Federal funding for energy efficiency in the economy, grant (BAFA)
- Germany: KfW funding programs
- State funding
- Other



The project is amortized

- 0 to \leq 3 years
- $>$ 3 to \leq 8 years
- More than 8 years
- No information available

Remarks:

For services such as contracting, you can provide alternative information on profitability here, e.g. duration of the contract or reduction of the operating costs.

Annual energy savings achieved through the project

XXX kWh / year

Percentage annual energy savings of the entire project

XX percent / year

Related to:

- Process
- Location
- Company

Emissions saved annually by the project

XXX tons CO₂(equivalent) / year

Step 5

Description of the top measures

Take the chance to describe central aspects of your project in more detail. The easier it is to understand your project, the more likely it is that the jury will give it a good rating.

What was the trigger for the development or implementation of the project?



What obstacles did you encounter that had to be overcome?

Describe the most important energy efficiency measure of your project

Saving electricity of the top measures in kWh/year

Heat saving of the top measures in kWh/year

Please enter the corresponding energy sources:

What other energy efficiency measures were implemented in the project?

We have already received the following award for the project:



Step 6

Additional material

Files

In addition to the information already recorded on the form, we would like to provide you with further informative materials as part of our application.

[Select files and upload](#)

Images

The following pictures show persons and technologies that we have described in our application. They are intended to illustrate our application. If you would like to use these in competition communications, we would be happy to provide a written declaration granting you non-exclusive rights to use them.

[Select images and upload](#)

Step 7

Consents

You have now described the content of your project. In order to participate effectively in this year's competition, we now need your consent to some important aspects in the context of storage and processing.

- I declare that all information in this application is correct and that I am authorized to submit this application and that any project partners involved may agree.
- I hereby confirm that my company is aware of the conditions of participation in the EEA2022 (download / link) and that we agree to them.
- I agree that my personal data may be stored and processed by dena as part of the Energy Efficiency Award and that dena employees may contact me personally.



Sample application

Below we've given you a specimen application as an example. It's for the competition category 'From clever to digital – the broad spectrum of energy efficiency'. The input fields follow the same sequence as the online application form. Some input fields are context-dependent, and may therefore differ from this template. The description of the project, and the measures taken, should have some relationship to the specific category chosen.

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Applicant information

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Company name

Sample company

Brief description of the company

[Specimen company 1 GmbH] is a medium-sized enterprise specialising in automation technology, located in [specimen town], Saxony. Our products range from individual assemblies to complex manufacturing cells and complete production lines. Assembly, commissioning and operator training are all carried out by our qualified in-house engineers and mechatronics specialists. By using all materials and methods required by the work process in an environmentally aware way, we make an ongoing contribution to more sustainable social development and local conservation.

Assignment

Please select:

- Private company
- Public sector company



Classification

Please select:

SME²

- no SME

Postal address

Street

House number

Postcode

City

Federal State

Country

Industry segment

² SME definition of the European Commission: Companies with no more than 249 employees and an annual turnover of no more than €50 million or a balance sheet total of no more than €43 million.



Contact person

Mr/Mrs/Mx

Mr

Title

Dr

First name

John

Surname

Doe

Function

Technical Manager

E-mail

Doe@samplecompany.com

Phone number

030 / 11 222 - 333

mobile

0166 / 11 222 - 333



Step 2

Project or concept

You can submit your competition entries for the Energy Efficiency Award 2022 in two different ways. Make your decision.

Submit a project ✓

The project should already be completed and achieve real savings. Three content categories are available.

Submit a concept

The Audience Award recognizes entrepreneurial concepts that address the issue of climate neutrality and plausibly present steps for a transformation to climate-neutral business.

Step 3

Describe your project

You have decided to submit a project. Now start with the general information that describes your project.

Project name

Innovative heat recovery system for compressed air generation

Brief description of the project (max. 2,500 characters)

The production process for our plant manufacture requires a constant supply of compressed air, which is produced in 3 centralised electrical compressors with a rated power of 150 kWel each. These account for around 1/3 of the company's energy consumption.

Point of departure: Previously, the compressors were cooled by means of a water-cooling circuit that passed through open cooling towers. All the systems operated without heat recovery, and around 80% of the electricity consumption went into the cooling water in the form of waste heat. Evaporation in the cooling tower resulted in greater loss of water.

Efficiency measure: All the compressors were fitted with heat recovery modules. The temperature level was raised to 85°C, and the waste heat was decoupled via a heat exchanger and used to support the in-house heating and hot water system in combination with an extra (1,000 l) hot water tank. As a result, the required (cold) water consumption was reduced and the waste heat that had previously gone unused was diverted to a practical application.



Period in which the project was carried out

Project start

01.01.2021

End of project

31.12.2021

Desire to start in a certain competition category

- Think big! Complex energy transition projects
- From clever to digital! The range of energy efficiency
- Achieving more together! Energy services as enablers of the energy transition (only service providers can apply)

Was the project developed together with partners?

- We developed the project independently and also implemented it in our own company.

Step 4

Recording project key figures

Now add project-specific key figures. These serve to compare your project with other applications.

Investment in the project (without personnel costs) in €

4,500

Have grants or low-interest loans been used? If so, please select

- Federal funding for energy efficiency



The project is amortized

X > 3 to <= 8 years

Remarks:

Funding was already taken into consideration during the payback period.

For services such as contracting, you can provide alternative information on profitability here, e.g. duration of the contract or reduction of the operating costs.

Annual energy savings achieved through the project

10.000 kWh / year

Percentage annual energy savings of the entire project

5 percent / year

Related to:

X Location

Emissions saved annually by the project

3 tons CO₂(equivalent) / year

Step 5

Description of the top measures

Take the chance to describe central aspects of your project in more detail. The easier it is to understand your project, the more likely it is that the jury will give it a good rating.

What was the trigger for the development or implementation of the project?

For 10 years, our company has been pursuing a goal-oriented energy management strategy. As part an information event by the regional energy agency, our committed energy manager received advice on energy efficient compressed air generation, which they subsequently followed up and implemented.



What obstacles did you encounter that had to be overcome?

Initially, the temperature level of the waste heat was not suitable for our heating needs. Working closely with the manufacturer, we were successfully able to convert the technology and adapt it to local conditions.

Describe the most important energy efficiency measure of your project

Rebuilding the compressed air production system, using heat exchangers to recover heat to supply hot water needs.

Saving electricity of the top measures in kWh/year

0

Heat saving of the top measures in kWh/year

10,000

Please enter the corresponding energy sources:

Gas

What other energy efficiency measures were implemented in the project?

Installing a buffer tank to store the waste heat, in combination with a newly installed, 100% insulated heat distribution system and optimised control concept.

We have already received the following award for the project:

The [Federal State XXX] energy efficiency prize for 2021.



Step 6

Additional material

Files

In addition to the information already recorded on the form, we would like to provide you with further informative materials as part of our application.

Select files and upload

Project presentation.pdf

Images

The following pictures show persons and technologies that we have described in our application. They are intended to illustrate our application. If you would like to use these in competition communications, we would be happy to provide a written declaration granting you non-exclusive rights to use them.

Select images and upload

Fig. 1 Heat recovery module 1

Fig. 2 Heat recovery module 2

Fig. 3 Heat accumulator



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X I declare that all information in this application is correct and that I am authorized to submit this application and that any project partners involved may agree.

X I hereby confirm that my company is aware of the conditions of participation in the EEA2022 (download / link) and that we agree to them.

X I agree that my personal data may be stored and processed by dena as part of the Energy Efficiency Award and that dena employees may contact me personally.

To send an application

For further enquiry to your application please contact the:

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Energy Efficiency Award
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10115 Berlin, Germany

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E-mail: info@energyefficiencyaward.de

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