

Das E-Haus

## **E-House: Open Idea Competition for Innovative Passive House Concepts with Net Positive Energy Coupling of E-Mobility**

### **Part 1: General Requirements**

The execution of the competition is regulated on 31 January 2013 by guidelines published by the German Federal Ministry of Transport and Digital Infrastructure (RPW 2013), unless otherwise explicitly detailed in this competition publication.

The Architectural Association Hesse advised the preparation of this publication (§ 2 Paragraph 4 RPW); this competition was registered under the number 34/2018 RPW 2013. The organizer, participants and all involved parties accept the contents of this competition publication as binding.

The competition was published according to Form I RPW for private organizers.

#### **1.1 Competition Object**

The submission involves construction design planning for an innovative single-family passive house with net positive energy coupling of E-mobility.

The competition task is detailed in Part 2 of the competition publication.

#### **1.2 Competition Type**

The competition is published as an idea competition and is executed as an open competition open to natural and legal persons from all EU countries and Switzerland. The competition language is German. The process is anonymous.

The publication date is the 20 December 2018.

#### **1.3 Involved parties**

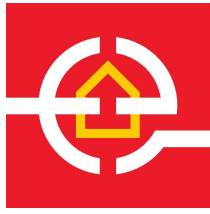
##### **1.3.1 Contractor**

The organizer is

isorast-Passivhaus-Produkte GmbH  
Chattenpfad 30  
65232 Taunusstein-Hambach

Managing Director: Manfred Bruer

Contact person: Mr Ulrich Hofmann  
Telephone +49 6128-9526-16



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### **1.3.2 Competition Participants**

Each participant must verify their own eligibility and confirm this with Form 1.

Students must submit a Confirmation of Enrolment from an appropriate university in the EU or Switzerland.

#### **1.3.2.1 Participation Eligibility (Open Competition)**

Eligible are residents of EU countries or Switzerland

- natural persons, who are entitled to use the title “Architect” in their country of residence. If the professional title is not legally regulated in their country of residence, the person is eligible if they have a Diploma or Testamur as recognised by 2013/55/EU.
- legal entities, whose professional area is construction detail planning pertaining to the competition task and who are represented in the participation of this competition by professional fulfilling the competition requirements as defined for natural persons.
- competition teams of natural and legal persons are also eligible, when all members and the team as a whole fulfil all requirements for competition participation.  
The competition team must name an authorised representative who is responsible for the competition contribution. Each member of the competition team must be eligible to participate as detailed in RPW § 4.2. Consultants, specialised planners and technical experts are exempt from the participation requirements.
- students enrolled at an appropriate university in the EU or Switzerland in an architectural discipline are eligible.

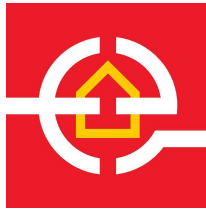
#### **1.3.2.2 Disqualification**

If any grounds as detailed in § 4 Paragraph 2 RPW exist, the person is excluded from participating in this competition.

### **1.3.3 Jury, Technical Experts, Preselection**

The jury was named as follows before the final formulation of the competition publication.

The jury meets in closed sessions.



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Technical Jurors:

- Mr. Prof. Dipl.-Ing. Adrian E. Adrianowysch, Architect, Hochschule Karlsruhe Technik und Wirtschaft, Karlsruhe  
Technik und Wirtschaft, Karlsruhe
- Ms. Prof. Dr.-Ing. Natalie Eßig, Bau-Institut für Ressourceneffizientes und Nachhaltiges Bauen, München
- Mr. Prof. Günter Pfeifer, Architect, Freiburg

Attending Deputy Technical Juror:

- Mr. Prof. Dr.-Ing. Gerhard Loeschke, Architect, Karlsruhe

Organiser Jurors:

- Mr. Manfred Bruer, Managing Director isorast-Passivhaus-Produkte GmbH, Taunusstein-Hambach
- Mr. Dr.-Ing. Benjamin Krick, Passivhaus Institut

Attending Deputy Organiser Juror:

- HMr. Dipl.-Ing. (FH) Wolfgang Weller, Bad Brückenau

The preselection is carried out as detailed by Form VI RPW by:

- isorast GmbH, Taunusstein Hambach

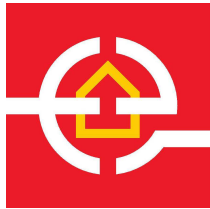
### **1.3.4 Jury Session**

The jury session takes place on 30 October 2019.

### **1.4 Competition Prizes and Acknowledgements**

The total prize money is:

|                 |               |
|-----------------|---------------|
| Net prize sum   | 55 000.00 EUR |
| VAT             | 10 450.00 EUR |
| Gross prize sum | 65 450.00 EUR |



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Preise sollen wie folgt aufgeteilt werden:

|                              |               |
|------------------------------|---------------|
| 1st prize                    | 18 250.00 EUR |
| 2nd prize                    | 12 250.00 EUR |
| 3rd prize                    | 8 500.00 EUR  |
| 4th prize                    | 5 250.00 EUR  |
| Acknowledgements<br>in total | 11 000.00 EUR |

If the prize winners pay VAT, then the amount will be awarded in addition.

The jury may change the prize money award by unanimous decision.

### **1.5 Competition Documents**

The competition documents are available for download starting 20 December 2018 from:

<http://www.isorast.de/downloads>

The book "Handbuch Technik" is available for download in German. This book can be ordered as hardcopy from the competition organiser:

isorast-Passivhaus-Produkte GmbH,  
Chattenpfad 30,  
65232 Taunusstein-Hambach,  
E-Mail: [info@isorast.de](mailto:info@isorast.de)

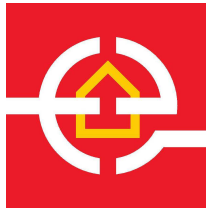
Furthermore, this book is available free of charge at the isorast stand:

at the BAU trade fair in München 14 to 19 January 2019, Hall 14, Stand Nr. 40; and

at the NEW ENERGY trade fair in Husum 22 to 24 March 2019, Hall 2, Stand A63.

The follow documents are available:

- Part 1: General Requirements
- Part 2: Competition Task
- Part 3: Programme
- Form Author Statement
- Web link Passivhausinstitut, Darmstadt, to download the calculation details for the passive house preplanning (Passivhausvorprojektierung (PHVP))
- Web link isorast to download the book "Handbuch Technik"
- Address to order the book "Handbuch Technik" hardcopy



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## 1.6 Competition submissions and nomenclature

The submitted documents are all to be labelled by a code consisting of six arabic numerals (1 cm high, 6 cm wide).

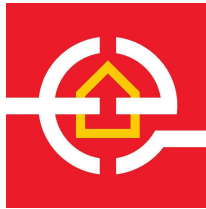
Each participant may submit only one design. Variations—also modifications of design components while retaining the overall solution—are not permitted. Unrequired submission parts will not be considered by the jury.

The following is required for the visualization:

- all plans are to be in DIN A2 landscape
- Fa maximum of 5 sheets are to be used
- the sheets must not be folded
- line draughts are to be used for the visualization
- legends are not allowed
- colour drawings are allowed

Participants are to submit the following:

|                             |          |  |
|-----------------------------|----------|--|
| Site Plan                   | M. 1:500 | – The site plan is to be oriented north and includes the position of the buildings as well as the landscaped areas.                                |
| Plans, elevations, sections | M. 1:100 | – The plans must include section lines.<br>– Room labels including area are to be included in the plans.   |
| Model                       | M. 1:50  | – Base is 50 x 50 cm.<br>– The model should be in a neutral grey colour.<br>– Colour may be used only to accentuate important structural elements. |
| 3D- Visualization           |          | – A visualization of the building.   |
| Model photo                 |          | – Photographs for orientation without high quality expectations.   |



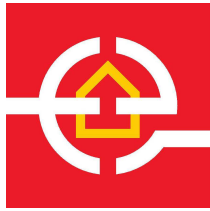
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- |  |   |
|--|---|
| Explanations and verification          | <ul style="list-style-type: none"><li>– explanation of the design concept as text on separate DIN A4 sheets, in addition to on the plans</li><li>– calculation of residential areas on separate DIN A4 sheets, in addition to on the plans</li><li>– explanation of the energy concept as text including optionally a function scheme on separate DIN A4 sheets, in addition to on the plans</li><li>– verification based on the passive home planning guidelines (PHVP (Passivhausvorprojektierung 2002)</li><li>– verification of the produced energy surplus to assure mobility with an electric vehicle</li></ul> |
| Author statement and/or student status | <ul style="list-style-type: none"><li>– the author statement and/or confirmation of student status is to be included in an opaque, neutral, and sealed envelope.</li></ul>  |
| List of submission                     | <ul style="list-style-type: none"><li>– a list of all documents submitted is to be included on a separate DIN A4 sheet</li></ul>  |
| Plans as PDF                           | <ul style="list-style-type: none"><li>– all plans and explanations are to be submitted as PDF on a suitable drive</li><li>– the code number is to be also included on the drive</li></ul>   |

## **1.7 Evaluation criteria**

The main evaluation criteria are:

- aesthetic quality of the design
- innovation of the design
- spatial qualities of the design
- fulfilling the programme as required by the functions
- functional quality
- communicating the guiding idea of the E-House through a coherent design
- verification of the efficiency and effectiveness of the energy concept while considering E-mobility
- future-proofing of the living idea
- economic considerations of the design



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## **1.8 Deadlines**

### **1.8.1 Questions/ Colloquium**

Questions can be submitted until

15 May 2019

anonymously to the organizer at

<http://www.e-haus.isorast.de>

Questions will be answered by the organizer on consultation with the jury by

29 May 2019

The answer will be made available to all participants at:

<http://www.e-haus.isorast.de>

The answers are part of the competition regulations.

### **1.8.2 Submission Deadline**

Plans and documents:

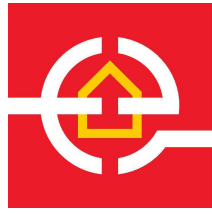
Submission deadline for the plans and documents to the organizer is

16 August 2019

These can be submitted in person by 2:00 pm on the same day.

Adress:  
isorast-Passivhaus-Produkte GmbH  
Chattenpfad 30  
65232 Taunusstein-Hambach

Alternatively the plans and documents can be sent to the address above.



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Model and model photos:

Submission deadline for the model and model photos to the organizer is

23 October 2019

These can be submitted in person by 4:00 pm on the same day at the address above.

Alternatively the model and model photos can be sent to the address above.

Important note: the shipping risk is carried by the participant. All submissions received late will be disqualified.

The participant is responsible to document punctual submission. By submissions made in person, the confirmation receipt with a time stamp applies.

In order to assure anonymity, the sender address is the organizer address.

### **1.8.3 Admission of the Work, Requirements**

In principal there are no requirements regarding the contents. For the evaluation all work will be admitted that:

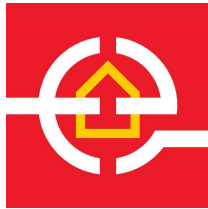
- fulfils the formal requirements
- fulfils in significant aspects the required competition scope of work
- has been submitted punctually
- does not violate anonymity

## **1.9 Further Implementation and Intellectual Property**

### **1.9.1 Contracting by the Organizer**

This idea competition does not imply a direct realization intent (§ 3 (1) RPW).





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### **1.9.2 Ownership, Return and Liability**

The submitted documents and work recognized with prizes and acknowledgements become the property of the organizer. Work not awarded will be returned to the participants only if explicitly requested within 4 weeks of sending the minutes of the jury evaluation. If the participant does not request the return of the work within this time, the participant relinquishes ownership of the submission. A return is only possible if the participant includes adequate packing for the plans and model.

### **1.9.3 Intellectual Property, Use Rights**

Use rights of the competition work and the copyright of the participants is regulated in § 8 Paragraph 3 RPW.

### **1.10 Publication of the Results and Exhibition**

The organizer will send the minutes of the jury evaluation promptly and will publish these as soon as possible. Furthermore, the winners will be informed on <http://www.isorast.de>

An exhibition of the awarded submissions is planned at the ReWoBau 2020 trade fair in Wiesbaden, taking place from 7 to 9 February 2020.

Further exhibitions of the awarded submissions are planned afterwards in regional and national construction trade fairs.

The awarded submissions will appear in a documentation of the competition and online for the interested public.

### **1.11 Jury Decision**

The jury decision is final. A recourse to the courts is not permitted.