

10 Years of KIT Energy Center

On June 26, 2018 the KIT Energy Center Is Celebrating its Anniversary – The Program also Includes the Presentation of the Heinrich Hertz Award



In the bioliq plant at KIT, research is carried out on how to produce high-quality biofuels from dry biomass such as residual material from agriculture and forestry. (Photo: Fabry)

Since 2008, the KIT Energy Center has combined basic and applied research in natural, economic and social sciences, as well as in humanities and the legal field into a holistic approach to the entire energy cycle. As a dialog and strategy platform, it has bundled knowledge and expertise on energy research at Karlsruhe Institute of Technology (KIT) for the past ten years. With around 1,500 employees, it has now grown into one of the largest energy research centers in Europe. The KIT Energy Center is celebrating its anniversary at its annual conference on June 26, 2018 from 9 am in the auditorium of the Training Center for Technology and Environment at KIT Campus North. Media representatives are welcome to attend (please register using the enclosed form or by e-mail).

“Supplying the more than seven billion people in the world with energy – that’s an enormous task that politics, science and society have to face together. Energy supply is inextricably linked with working on solutions for future mobility and information infrastructures,” says KIT President Professor Holger Hanselka. “KIT makes significant contributions to these major societal challenges. In the KIT Energy Center alone, 1,500 people across all disciplines are working on solutions for a variety of questions:



KIT Energy Center: looking to the future

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How can we store and transport energy? How is it distributed to the grids? How does communication between producers and consumers work and which new business models fit the demanding tasks, not forgetting data protection?”

To gain a holistic view of the energy cycle and also to be able to include social aspects, KIT set up the KIT Energy Center ten years ago, in which expertise from natural sciences, engineering, economics, humanities, social sciences and the legal field all come together. This means that energy research at KIT takes into account all the approaches to reliable energy supply, with the development of an overall concept for the energy mix of the future being the central element. “In celebrating this first milestone birthday of the KIT Energy Center, we can certainly look back with pride at what we have achieved. That’s not a reason to rest on our laurels though, but rather our motivation and incentive to continue to work on answers to urgent social questions,” says Hanselka.

With Energy Lab 2.0 at KIT, for the first time an intelligent and networked test platform has been created for energy transformation, power generator storage and consumers. Together with the German Aerospace Center and the Jülich Research Center, KIT is examining the interplay of centralized and decentralized energy supply. Working with six further Helmholtz centers, as part of the “energy system integration” project KIT is also developing tailor-made models for energy systems of the future, contributing to the success of energy transformation.

Annual conference on June 26, 2018

At the conference, there will be a look-back at the last ten years of energy research at KIT. In scientific presentations on current research projects, KIT will also be looking to the future. Another highlight of this year's event is the presentation of the Heinrich Hertz Award by the Energie Baden-Württemberg (EnBW) Foundation for outstanding scientific or technical achievements in the field of production, distribution and use of electrical energy. The program is rounded off by an accompanying poster exhibition including a competition.

Media representatives are welcome to attend. Please register using the enclosed form or by e-mail to presse@kit.edu. Please specify if you will attend all day, in the morning (until 12.15 pm) or in the afternoon (starting at 1.30 pm).

Program of the “10 years of KIT Energy Center” conference

June 26, 2018, from 9 am, auditorium of the Training Center for Technology and Environment, KIT Campus North, Hermann-von-

Helmholtz-Platz 1, 76344 Eggenstein-Leopoldshafen

- 09.00 am** **Welcome**
Prof. Thomas Schulenberg, scientific spokesman for the KIT Energy Center
- 09.15 am** **Welcome speech**
Prof. Holger Hanselka, President of KIT
- 09.30 am** **Welcome speech partners**
- 09.50 am** **How it all began ... 10 years of KIT Energy Center**
Prof. Hans-Jörg Bauer, scientific spokesman for the KIT Energy Center from 2008 to 2014
- 10.05 am** **Current developments at the KIT Energy Center**
Prof. Thomas Schulenberg, scientific spokesman for the KIT Energy Center
- 10.20 am** **Coffee break**
- 10.50 am** **EdF's energy research in the European energy transition**
Jaques Sacreste, Electricité de France Service National (EdF)
- 11.20 am** **Decarbonization of the energy system through increased use of renewable electricity in the heating, transportation and industrial sectors**
Dr Dogan Keles, Institute for Industrial Production of KIT
- 11.40 am** **Development of novel high-performance materials for batteries**
Prof. Maximilian Fichtner, Helmholtz Institute Ulm of KIT
- 12.00 pm** **Diamond – an indispensable material for microwave heating of a fusion reactor**
Prof. Theo Scherer, Institute for Applied Materials – Applied Materials Physics of KIT
- 12.20 pm** **Lunch**
- 1.40 pm** **Presentation of the Heinrich Hertz Award**
by Prof. Wolfram Münch, Head of Research and Innovation of EnBW
- 2.00 pm** **Speeches by the Heinrich Hertz Award winners**
- 2.40 pm** **KIT – The Energy Campus**
Prof. Ute Karl, European Institute for Energy Research (EIFER) at KIT

- 3.00 pm** **JRODOS – Decision support in the event of a nuclear accident**
Wolfgang Raskob, Institute for Nuclear and Energy Technologies of KIT
- 3.20 pm** **Poster exhibition with coffee break**
- 4.30 pm** **Presentation of the EnBW Poster Award**
Prof. Wolfram Münch – Head of Research and Innovation of EnBW
- 4.40 pm** **Power-to-SNG with high efficiency: the HELMETH project**
Dr. Stefan Harth, Engler-Bunte-Institute of KIT
- 5.00 pm** **Fuels with a closed carbon cycle for the mobility of tomorrow**
Prof. Nikolaus Dahmen, Institute of Catalysis Research and Technology of KIT
- 5.20 pm** **Closing remarks**
Dr. Wolfgang Breh, Managing Director of the KIT Energy Center

More about the KIT Energy Center: <http://www.energie.kit.edu>

As “the Research University in the Helmholtz Association”, KIT creates and conveys knowledge for society and the environment. The aim is to make significant contributions to global challenges in the fields of energy, mobility and information. To achieve this, around 9,300 employees are working together on a broad disciplinary basis in natural sciences, engineering, economics, humanities and social sciences. KIT offers research-oriented studies to prepare its 25,500 students for responsible tasks in society, economy and science. Innovations at KIT bridge the gap between knowledge and application for the benefit of society, economic prosperity and the preservation of our natural resources.

This press release is available on the internet at www.sek.kit.edu/presse.php