

Save the Date

What: 10th Energy Colloquium of the
Munich School of Engineering

When: 30 July 2020 | 8:30 am to 9:00 pm

Where: Quantum, Garching-Hochbrück
Parkring 37
85748 Garching near München

Important Dates:

Abstract Deadline: 31 January 2020
Notification Date: 28 February 2020
Publication of Programme: 20 April 2020
Poster Deadline: 01 July 2020

The **participation** is free of cost for members of Bavarian universities and external guests. We are looking forward to receive your abstracts and posters!

More details and registration can be found on
www.mse.tum.de



Technical University of Munich
Munich School of Engineering

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10 years of MSE: Energy Research in Bavaria

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The 10th Colloquium of the Munich School of Engineering

The Munich School of Engineering (MSE) presents the 10th anniversary edition of its Energy Colloquium. Since 10 years world-class research activities on energy related topics are presented, originating from Munich and Bavaria. This year, it is the ambition to continue this history and to tie disciplines, faculties and universities even closer to address our societal challenges. We will provide an ideal platform for discussions and exchanges for PhD students.

The 10th Energy Colloquium will provide a lively exchange platform for young scientists and researchers from all Bavarian universities in the field of energy science at the Technical University of Munich and takes place on the 30th of July in 2020 in Garching Hochbrück. Since early 2019, sustainability has drawn huge attention catalyzed by the Fridays for Future movement. As the transition to sustainability is a challenging task, which can only be achieved with cheap, reliable and efficient energy use and energy supply as its fundament, the 10th Energy Colloquium will focus on **10 years of MSE: Energy Research in Bavaria**.

According to a current study by dena (Deutsche Energie-Agentur), implementation of the planned energy system transformation will require the integration of new technologies at all levels from local to international. Individual plants and consumers will be just as important as the international interaction of grids and markets in order to achieve the climate policy targets. The integrated energy system transformation includes all regions and sectors. There is currently no shortage of recommendations for action and declarations of intent, but implementation also requires increased acceptance among the population, which, according to the pilot study, can result from increased local participation and involvement.

In November 2019, the Bavarian state government passed a climate protection law with 10 points. The law also stipulates that Bavaria should be climate neutral by 2050.



Many researchers and scientists are accompanying this transformation through technological developments, which will be presented at the colloquium.

There will be a broad variety of subtopics available, waiting for your contributions. Amongst these topics are:

- Renewable Energy Sources: Wind, Hydro, Biomass, Energy from Waste, Solar, Geothermal
- Storage: Thermal, Chemical and Electrical Storage, long and short term
- Sector Integration: Fuel Cells, Electrolysis, Power-to-X, Synfuels, Distribution Networks
- Sustainability in Energy Supply: for Buildings, Farming and Mobility
- Related Data Science and Simulation Methods

Please note that both, applied and fundamental research, is cordially invited to contribute!

What to Expect: A Whole Day of Exchange!

The one-day event will have a presentations-panel with invited speakers. They will give interesting insights in their research and recent discussions. During the lunch break the participants will get together and discover the high-quality poster presentations. Moreover, two key note speakers will frame the programme.

Graduate and Phd students are invited to contribute an abstract for an oral or a poster presentation. The best three contributions of posters and presentations will be awarded. During the whole day, there will be plenty of opportunities for discussions and networking, even after the official programme.

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