

ENERDAY 2023

The energy crisis as an accelerator of a sustainable transformation?

Pre-Conference-Dinner **Thursday, 4 May 2023,**
Informal Get Together **6 p.m.**

Restaurant Kobers Chiavieri (↗)
Bernhard-von-Lindenau Platz 1, 01067 Dresden

Conference venue **Friday, 5 May 2023,**
8 a.m. – 5:45 p.m.

HSZ Hörsaalzentrum (↗)

8:00	Registration, Coffee & Tea			
8:30	Opening Address (Room: HSZ/0004/H) Prof. Dr. Dominik Möst, TU Dresden			
9:00 - 9:45	Keynote Talk (Room: HSZ/0004/H, Chair: Prof. Dr. Dominik Möst, TU Dresden) SachsenEnergie – our contribution to the German energy transition Dr. Axel Cunow, Sachsenenergie			
9:45	5 minutes to change rooms			
Parallel Session 1 (09:50 – 10:50)				
09:50 - 10:50	Energy system modeling I Room: HSZ/0004/H, hybrid Chair: Hendrik Scharf Assistant: Simon Koch	Natural Gas I Room: HSZ/0401/H, hybrid Chair: Jens Maiwald Assistant: Niklas Haubold	Hydrogen and flexibility Room: HSZ/0301/U Chair: Steffi Misconel Assistant: Ole Sauerbrey	Renewables and modeling Room: HSZ/0304/Z Chair: Hannes Hobbie Assistant: Aaron Kaspar
09:50	Uncertainty in energy system modeling - lessons from case-studies with GENeSYS-MOD Karlo Hainsch, <i>Technische Universität Berlin</i>	European Economic Impacts of Cutting Energy Imports from Russia: A Computable General Equilibrium Analysis Sigit Perdana, <i>EPFL Lausanne</i>	On assessing the value of decentral flexibility given different flexibility deployment and TSO-DSO coordination Hendrik Kramer, <i>Universität Duisburg-Essen</i>	The insurance value of renewable energies Thibault Deletombe, <i>Université Paris Dauphine-PSL</i>
10:10	Numerical optimisation of supply security in a cellular-structured district using solid-biomass-based hybrid systems Lukas Richter, <i>Deutsches Biomasseforschungszentrum</i>	European Gas and LNG Scenarios For Winter 2023/2024 And Beyond Andreas Schroeder, <i>ICIS – Independent Chemical & Energy Market Intelligence</i>	Hydrogen and Heat Storages as Flexibility Sources for a Greenhouse Gas-Neutral German Energy System Thomas Schöb, <i>Forschungszentrum Jülich</i>	A novel approach to generate bias-corrected regional wind infeed timeseries based on reanalysis data Yannik Pflugfelder, <i>Universität Duisburg-Essen</i>
10:30	Sustainable Power Systems Transformation of Industrial Regions: Insights from Energy System Modelling Sophie Pathe, <i>Ruhr-University Bochum</i>	Europe's independence from Russian natural gas – Effects of a complete import stop on energy system development Nikita Moskalenko, <i>WIP - Technische Universität Berlin</i>	How much flexibility is needed by hydrogen power plants? Philipp Hauser, cancelled <i>VNG AG</i>	The effect of coarse weather data resolution on energy system model results Matthias Zech, <i>DLR – Institut für vernetzte Energiesysteme</i>
10:50	Coffee & tea break – 25 minutes			

Parallel Session 2 (11:15 – 12:15)

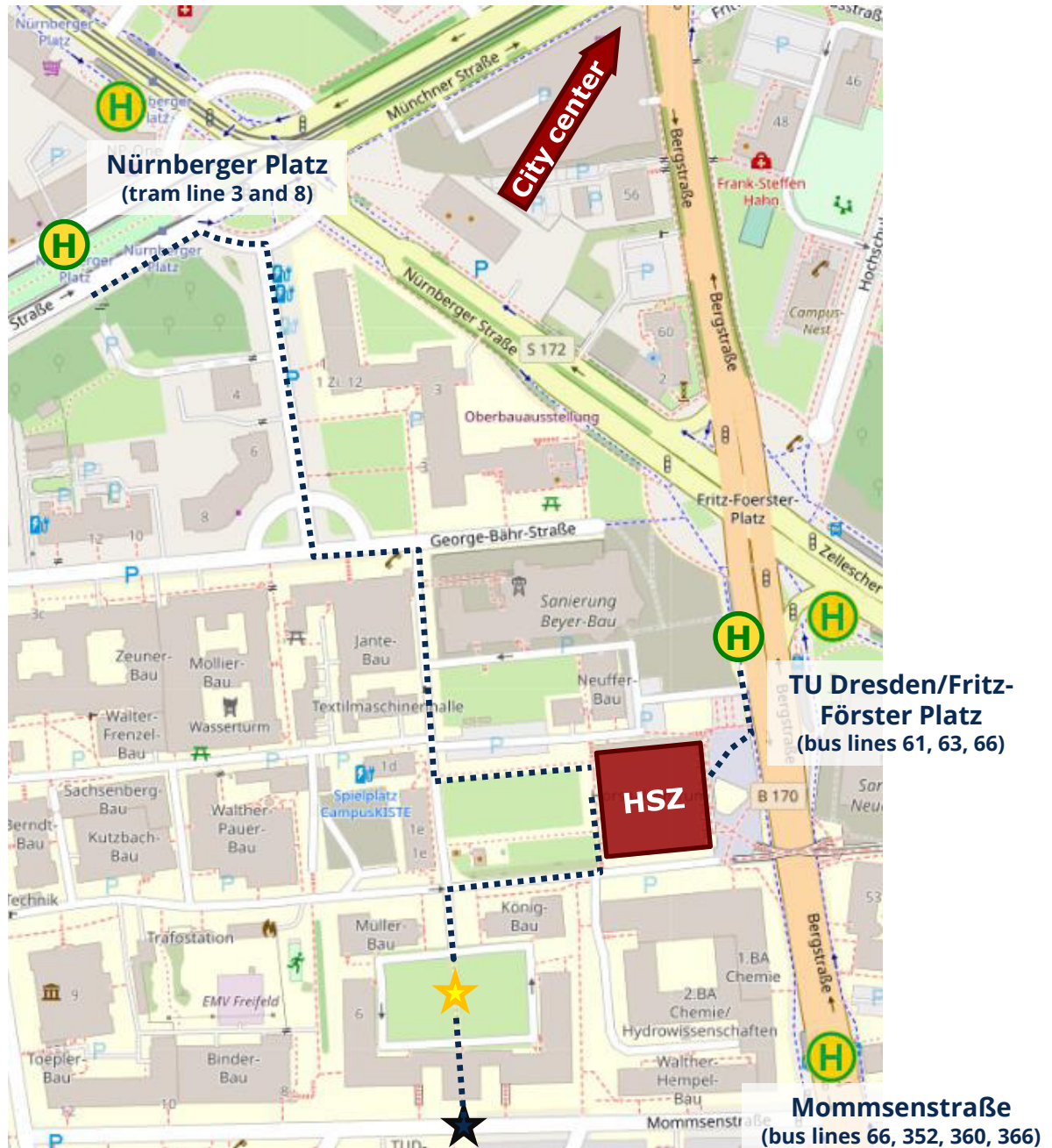
Parallel Session 2 (11:15 – 12:15)				
11:15 - 12:15	Energy system modeling II	Natural Gas II	Hydrogen and infrastructure	PV and storage
	Room: HSZ/0004/H, hybrid Chair: Felix Jakob Fliegner Assistant: Simon Koch	Room: HSZ/0401/H, hybrid Chair: Maximilian Happach Assistant: Niklas Haubold	Room: HSZ/0301/U Chair: Lauritz Bühler Assistant: Ole Sauerbrey	Room: HSZ/0304/Z Chair: Lisa Lorenz Assistant: Aaron Kaspar
11:15	Investments in coupled energy sectors and market pricing	Long-term Development of European Natural Gas Markets - Scenario Analysis using the Global Gas Model (GGM) (online contribution)	A sector-coupled european energy system towards 2050 - Exploring the role of hydrogen pipeline infrastructure	Smart Energy Protocol Landscape in Germany
	Johannes Wirth, <i>FAU Erlangen-Nürnberg</i>	Lukas Barner, <i>Technische Universität Berlin</i>	Jonathan Hanto, <i>Europa-Universität Flensburg / TU Berlin</i>	Christoph Parsiegl, cancelled <i>P3 Group</i>
11:35	Energy Imports and Infrastructure in a Climate-Neutral European Energy System	Could we learn from our mistakes in the past? Comparing gas market forecasts from MAGELAN model with actual developments in reality	Generation options & effects of sustainable hydrogen from offshore wind energy on the German energy system	Determinants of residential photovoltaic and battery storage adoption in Germany: an empirical investigation
	Fabian Neumann, <i>Technische Universität Berlin</i>	Andreas Seeliger, <i>Hochschule Niederrhein</i>	Enno Wiebrow, <i>Technische Universität Berlin</i>	Stephanie Stumpf, <i>KIT – Institute of industrial production</i>
11:55	Green deal and carbon neutrality assessment of Czechia	Expanding natural gas cross-border flows in Europe through the optimal use of the pipeline grid: a stylized model comparison	The economics of global green ammonia trade – “Shipping Australian wind and sunshine to Germany”	Energy storage as enabler for the transition to a sustainable energy system: what will be the winning battery technology?
	Lukáš Rečka, <i>Charles University Praha</i>	Christian von Hirschhausen, <i>Technische Universität Berlin</i>	Kiana Niazmand, <i>FAU Erlangen-Nürnberg</i>	Jakob Gross, cancelled <i>P3 Group</i>
12:15 - 13:15	Lunch break – 60 minutes			

13:15 - 14:00	Keynote Talk (Room: HSZ/0004/H, hybrid, Chair: Prof. Dr. Christian von Hirschhausen, TU Berlin) Trends in European and International Gas Markets in the Energy Sector Transformation Prof. Dr. Anne Neumann, NTNU			
14:00	5 minutes to change rooms			
Parallel Session 3 (14:05 – 15:05)				
14:05 - 15:05	Energy system modeling III Room: HSZ/0004/H, hybrid Chair: Andreas Büttner Assistant: Simon Koch	Smart grid and tariffs Room: HSZ/0401/H, hybrid Chair: Philipp Riegebauer Assistant: Niklas Haubold	Demand response Room: HSZ/0301/U Chair: Jannis Eichenberg Assistant: Ole Sauerbrey	Renewables and infrastructure Room: HSZ/0304/Z Chair: Mario Kendziorski Assistant: Aaron Kaspar
14:05	Exploring the untapped potential of renewables and flexibility options in reducing CO₂ emissions - What will it cost? Steffi Misconel, <i>EURAC Research</i>	Smart Network Tariffs: Managing Demand Peaks in Residential Electricity Distribution Roman Hennig, <i>TU Delft</i>	Gas demand in times of crisis: energy savings by consumer group in Germany Oliver Ruhnau, <i>Hertie School</i>	Potentials of parking and floating photovoltaics in Germany Rachel Maier, <i>Forschungszentrum Jülich</i>
14:25	Impact of non-linear CO₂ price fluctuations on investments in the power sector Erdal Tekin, <i>IER University of Stuttgart</i>	Effects of electricity pricing schemes on household energy consumption A meta-analysis of academic and non-academic literature (<i>online contribution</i>) Tarun Khanna, <i>Mercator Research Institute</i>	The impact of demand-side mitigation measures in German passenger transport on the energy system transformation Marlin Arnz, <i>Technische Universität Berlin</i>	Solar Prosumage: Interactions with the Transmission Grid Mario Kendziorski, <i>Technische Universität Berlin</i>
14:45	Navigating to a Greener Europe through Clean Electricity Procurement Igor Riepin, <i>Technische Universität Berlin</i>	A methodological approach for developing smart grids - determining main drivers and match appropriate projects to meet local needs Philipp Riegebauer, <i>BABLE GmbH</i>	The role of dynamic electricity price contracts to utilise residential demand-side response to fight the energy crisis and ease the transformation to a renewable power system Matthias Hofmann, <i>NTNU / Statnett</i>	Spaghettigrids: Offshore grid development with a geographical information system - First results for Baltic and North Sea Felix Jakob Fliegner, <i>50Hertz / TU Dresden</i>
15:05	Coffee & tea break – 25 minutes			

Parallel Session 4 (15:30 – 17:00)				
	Energy system modeling IV	Energy transition	Decentralised energy supply	Technology assessment
15:30 - 17:00	Room: HSZ/0004/H, hybrid Chair: Constantin Dierstein Assistant: Simon Koch	Room: HSZ/0401/H, hybrid Chair: Dimitrios Glynos Assistant: Niklas Haubold	Room: HSZ/0301/U Chair: Lucas de la Fuente Assistant: Ole Sauerbrey	Room: HSZ/0304/Z Chair: Alexander Wimmers Assistant: Aaron Kaspar
15:30	How reduction of energy demand can help to reach or reinforce German mitigation targets Patrick Jürgens, <i>Fraunhofer ISE</i>	Effects of fuel switching on electricity consumption and greenhouse gas emissions after the Russia-Ukraine War Yeong Jae Kim, <i>KDI School of Public Policy and Management South Korea</i>	Sustainable municipality modelling: Clustering-based bi-level optimization of a decentralized municipality energy and resource treatment infrastructure portfolio Matthias Maldet, <i>EEG – Technische Universität Wien</i>	Economics of nuclear power in decarbonized energy systems Alexander Wimmers, <i>Technische Universität Berlin</i>
15:50	The Industry Transformation from Fossil Fuels to Hydrogen will reorganize Value Chains: Big Picture and Case Studies for Germany Nima Farhang-Damghani, <i>FAU Erlangen-Nürnberg</i>	Defining green hydrogen: Does simultaneity benefit big players? Nieves Casas, <i>RWTH Aachen University</i>	Comparison of CO₂ and cost-optimised energy system for a residential building in Germany André Egli, <i>Hochschule Luzern</i>	Efficient electricity distribution and sustainable energy management through Big Data analytics and machine learning Andrej Somrak, <i>Troia d.o.o.</i>
16:10	Short Coffee & tea break – 10 minutes			
16:20	Coherent Transformation Paths in Energy System Modelling - A Case Study for Germany Toni Busch, <i>Forschungszentrum Jülich</i>	Reviewing energy transition studies in the light of recent European gas market developments Daniel Brunsch, <i>Universität Duisburg-Essen</i>	Modelling district heating systems transition towards climate neutrality, case study of Poland Maciej Raczyński, <i>AGH University of Science and Technology</i>	Functional Technology Foresight: Case Study for Direct Air Capture and Storage Freia Harzendorf, <i>Forschungszentrum Jülich</i>
16:40	At the borderline: An analysis of the electricity trade between Mexico and US (online contribution) Lilia Garcia Manrique, <i>University of Sussex</i>	Demand and Generation in Distribution Grids: Future Challenges and Opportunities Abhilash Bandam, <i>Forschungszentrum Jülich</i>	Investigation of seasonal congestion situations in modern rural integrated distribution grids Tom Steffen, <i>Technische Universität Hamburg</i>	Effect of the energy crisis on short-term and long-term market design - an economic assessment Maxime Amadio, <i>Compass Lexecon</i>
17:00	End of parallel Sessions			
17:30	Group picture in front of the Fritz-Förster Bau (↗)			
17:45	Bus transfer to gala dinner (departing from Mommsenstraße)			
Gala Dinner Official closing event and award ceremony		Friday, 5 May 2023, 18:30 p.m.	Spitzhaus Radebeul (↗) Spitzhausstraße 36, 01445 Radebeul	
23:30	Bus transfer to Dresden central train station (departure from the gala dinner location)			

ENERDAY 2023 Venue and floor plan

Directions



Tram/Bus stations



Conference location (HSZ - Hörsaalzentrum)

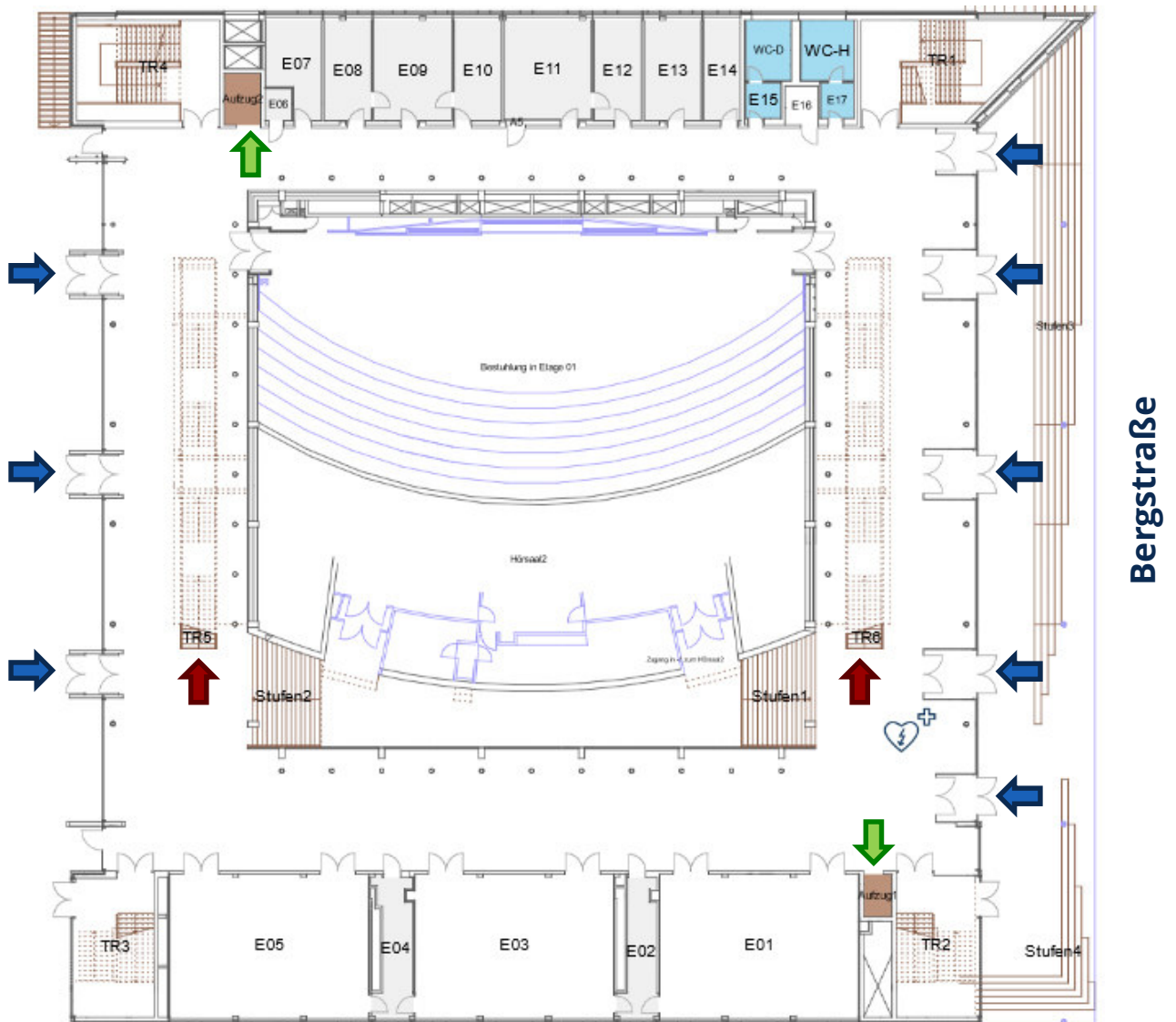


Location for group picture



Departure for the gala dinner

ENERDAY 2023 Venue and floor plan Ground floor (building entry)

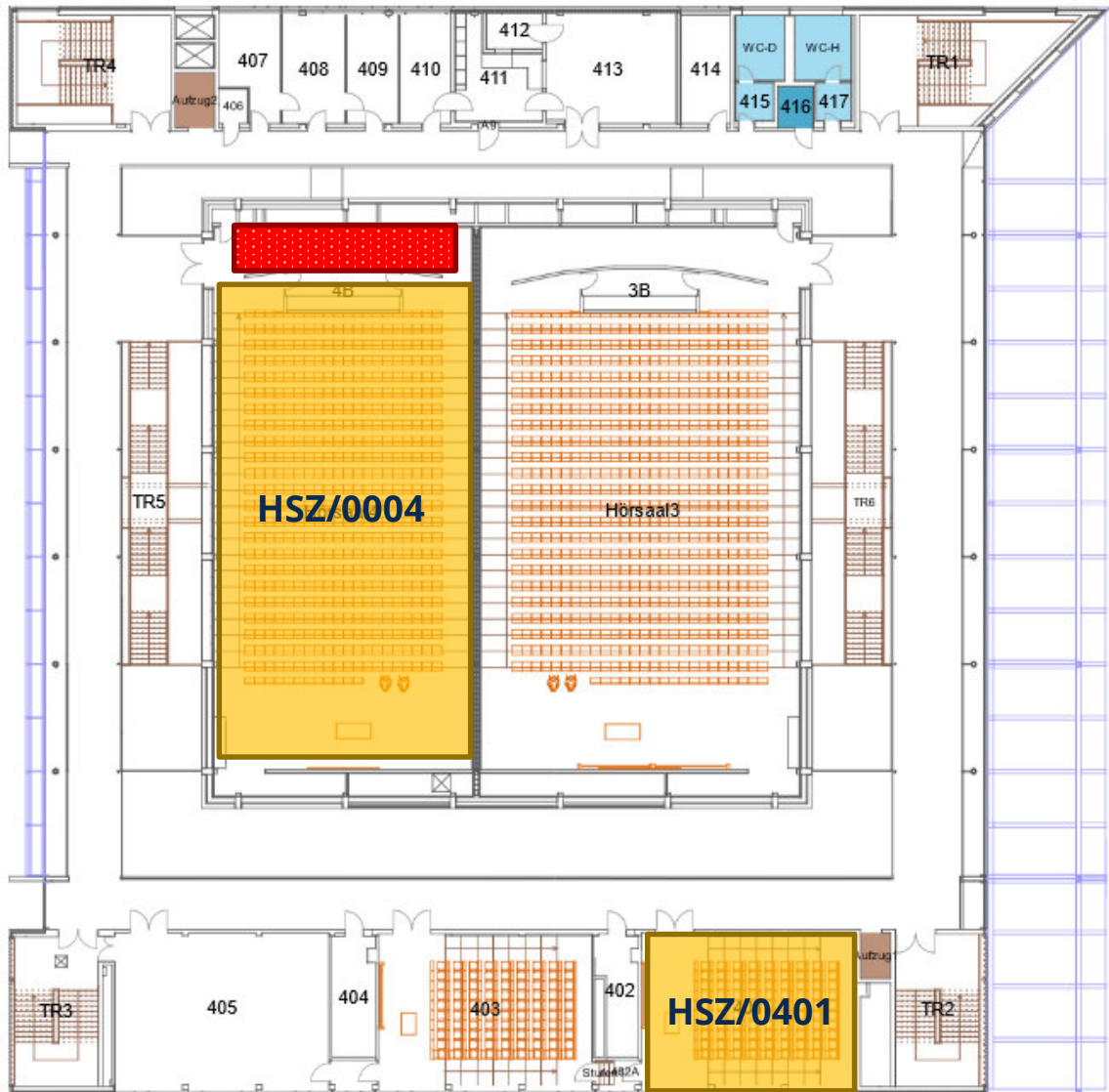


➡ Building entrances

➡ Staircase to reach the conference office at the 3rd floor

➡ Elevator

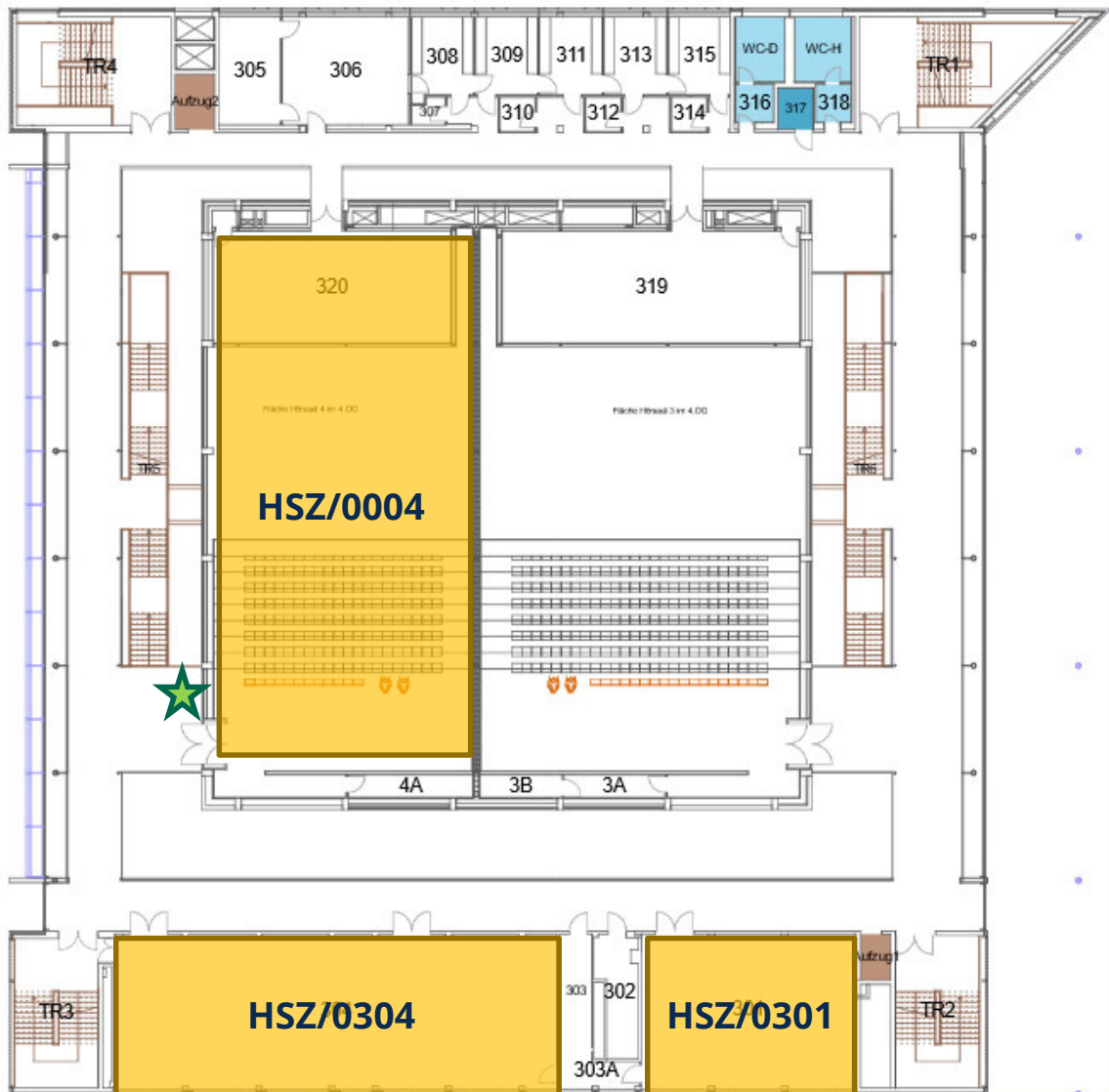
ENERDAY 2023
Venue and floor plan
Conference floor – 4th floor



 Conference Rooms

 Wardrobe

ENERDAY 2023 Venue and floor plan Conference floor – 3rd floor



 Conference Rooms

 Conference Office