

Official Side Event of the Berlin Energy Transition Dialogue 2019

Guided tour: Efficiency in Infrastructure

Thursday, 11 April 2019 | language: English | subject to change

The imminent development of innovative power plants, as well as the consensus to reduce emissions and curb rising energy prices, require the use of highly efficient energy-generation technologies, such as cogeneration of heat and electricity. But how do these systems actually work, and how competitive are they compared to conventional technologies? What are the potential social benefits? To find answers to all these questions, we will visit sites with state-of-the-art technologies that are driving our energy transition.

Please note: Due to safety reasons, some sites can only be visited with flat and sturdy shoes. Changeable weather conditions require weatherproof clothing. Packed lunches will be provided. Filming and photography are not allowed unless otherwise indicated at the site.

Agenda	
08:45 am	<ul style="list-style-type: none"> • Bus transfer to Berlin Moabit • Welcome and short introduction to site visits
09:45 am	<ul style="list-style-type: none"> • Guided visit to Vattenfall's opening of its new salt-storage-system with SaltX Together with the Swedish company SaltX Technology, Vattenfall is currently investigating how well salt can store excess electricity as heat at the Reuter cogeneration plant in Berlin. Salt can absorb up to ten times more energy than water, for example. At the beginning of November 2018, construction began on the first of two identical pilot plants, which are scheduled to go into operation in spring 2019. The pilot plant is to feed energy into the Berlin district heating network. • Guided visit to Vattenfall's Power-to-Heat plant Reuters West The Reuter West cogeneration plant is located in the northwest of Berlin. It consists of two identical power plant units which were commissioned in 1987 and 1989. In the last years Vattenfall replaced one of its hard coal units of the power plant with the largest power-to-heat plant in Europe. The power plant will start operation this year and will then convert excess electricity into renewable heat to supply 30.000 households.

	<p><i>Guide: tbc</i></p>
12:00pm	<ul style="list-style-type: none"> • Transfer to Technical University of Berlin
12:30 pm	<ul style="list-style-type: none"> • Lunch at die University Cafeteria, Technical University of Berlin (TU)
02:00 pm	<ul style="list-style-type: none"> • Visit and guided tour through the Exhibition - Energy in Motion @ TU Berlin <p>What does a plant have to do with energy? What exactly is an oil field? How much energy does Denmark actually need? And which countries emit the least CO₂? Answers to these and other questions can be found in the exhibition ENERGY IN MOTION. The topic of energy, the handling of it and the future of energy supply will be comprehensively illuminated on an area of 700 m²</p> <p><i>Guide: J. Suchanek, scientific assistant of EIM@TU project management</i></p>
03:00 pm	<ul style="list-style-type: none"> • Short lecture: WindNODE and the energy science landscape at TU Berlin <p>WindNODE is funded by the Federal Ministry of Economics (BMWi) as a "showcase for intelligent energy". It shows a network of flexible energy users who can adjust their electricity consumption to the fluctuating supply of wind and solar power plants. The aim is to integrate large quantities of renewable electricity into the energy system and at the same time keep the power grids stable. This will result in transferable model solutions that can also advance the transformation of energy systems elsewhere.</p> <p><i>Guide: M. Graebig, Project Director WindNODE</i></p>
04:00 pm	<ul style="list-style-type: none"> • Visit of Technology-Park Adlershof - "Energy Efficient City 2020+" <p>Examples of pilot projects (combined heat and power generation, storage concepts: electricity, cooling, hydrogen open grid, low-temperature heat networks, low-energy designs for residential and commercial buildings, smart street and building lighting, use of LED technology).</p> <p><i>Guide: Johannes Bense, Adlershof,(tbc)</i></p>
06:30 pm	<ul style="list-style-type: none"> • Transfer to restaurant
07:00 pm	<ul style="list-style-type: none"> • Dinner at the Hilton, Mohrenstraße 30, 10117 Berlin
07:30 pm	<ul style="list-style-type: none"> • End of tour

The official hashtag of the Berlin Energy Transition Dialogue 2019 is: #BETD2019

The **meeting point** for the start of the tour is:

Jägerstraße/Kurstraße

10117 Berlin (near the Federal Foreign Office, the official venue of the conference)

Please make sure to arrive 15 minutes before departure, as the bus will leave punctually.

