

# Field trips



INSTITUT FÜR ENERGIE-  
UND UMWELTFORSCHUNG  
HEIDELBERG



Klima-Bündnis

## Overview

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Field trips	Tuesday, 21/05/2019	Thursday, 23/05/2019
1. Foodsaving in Heidelberg	10:00 – 12:00 am	-
2. Energy Storage and Wood-fired Power Station	02:30 – 04:30 pm	-
3. A Whole Neighbourhood in Passive House Standard	03:00 – 05:15 pm	04:00 – 06:15 pm
4. Louise Otto Peters School: A climate-neutral school	03:00 – 05:30 pm	04:00 – 06:45 pm
5. Sustainable Economy: B&S Service GmbH	03:00 – 06:30 pm	04:00 – 07:00 pm
6. Stadt-Land-Rad: Bicycle Tour	03:30 – 05:00 pm	04:00 – 05:30 pm
7. Renewable Energy Cooperatives	03:30 – 05:30 pm	-
8. Center for Environmentally Conscious Mobility	03:45 – 05:30 pm	-
9. E-Mobility in Theory and Practice	04:30 – 06:00 pm	04:00 – 05:30 pm
10. Local Climate Protection: Wandelgarten und TransitionHaus	-	04:00 – 06:15 pm
11. Biodiverse Planting in a Terrace Garden	-	04:00 – 06:15 pm
12. Solar Boat Trip	-	04:00 – 05:00 pm
13. Sustainable economy: Heidelberg Brewery	-	04:00 – 07:00 pm
14. Sustainable economy: ABB	-	04:00 – 07:00 pm

## 1 Foodsaving in Heidelberg

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Together with a registered food saver, we save food from being thrown away. In Heidelberg, food is collected from fruit and vegetable dealers, supermarkets and bakeries. The next day it is cooked into a delicious meal at the climate protection festival at the university square.

**21.05.**

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Meeting point	Universitätsplatz, 10:00 am
Transfer	
Duration	from 10:00 to 12:00 am
End (Location, Time)	Universitätsplatz, 12:00 am
Number of tours	1
Number of participants	5
Language	English

## 2 Energy Storage and Wood-fired Power Station Pfaffengrund

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The Stadtwerke Heidelberg further advance the energy transition and climate protection in Heidelberg as they are transforming the current energy system. Based on the Energiekonzeption 2020/ 2030, the energy system will be more decentrally organized and include increasingly more renewable energy. First milestones have already been achieved: At the Energiepark Pfaffengrund, a wood-fired power station as well as several cogeneration units (Blockheizkraftwerke) have been build, through which the percentage of renewable energy in district heating could reach 20 percent. Regarding its own electricity mix, Energiepark Pfaffengrund already sources 80 percent of their energy from renewable sources. Currently, the energy and future storage system makes our energy system more flexible and contributes to the integration of more renewable energy sources. The energy and future storage facility will not only optimize the energy system but will also offer Heidelberg's citizens and visitors a new, attractive place to learn and enjoy: The 55-meter-high building will have an exciting architecture and an attractive, movable building shell above the storage facility: a network with a helix and many small plates that align with the wind and sun.

### 21.5.

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Meeting point	Heidelberg Central Station, 2:30 pm
Transfer	By tram
Duration	from 3:00 to 4:15 pm
End (Location, Time)	Bismarckplatz, 4:30 pm
Number of tours	1
Number of participants	25
Language	German / English

### 3 A Whole Neighbourhood Built in Passive House Standard: Bahnstadt Heidelberg

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Heidelberg Bahnstadt is one of the biggest urban development projects in Germany and the biggest passive house district of the world with an area of 116 hectares. Since 2008, an attractive mix of residential properties, science labs and offices, trade and cultural opportunities has been developed on the former rail yard of Heidelberg. Around 6,500 people will live here; another 6,000 people will work here.

Climate protection is one of the main goals behind the concept of the Bahnstadt, which requires the buildings to achieve the passive house standard, conform to an energy saving concept and use of efficient and increasingly renewable district heating.

For sustainable mobility, Heidelberg Bahnstadt offers a newly established 2.2 kilometers long tramline through the district, as well as 3.5 kilometers of bicycle path. The green roofs of the Bahnstadt improve the urban climate by retaining a higher percentage of rainwater within the district.

	<b>21.5.</b>	<b>23.5.</b>
Meeting point	Heidelberg Central Station, 3 pm	Kongresshalle, 4 pm
Transfer	Short Walk	Busshuttle
Duration	3:00 to 5:00 pm	4:30 to 6:00 pm
End (Location, Time)	Heidelberg Central Station at 5:15 pm	Heidelberg Central Station at 6:15 pm
Number of tours	2 to 4	
Number of participants	20 each	
Language	German / English	

## 4 Louise Otto Peters School: A Climate-neutral Educational Building

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The Louise-Otto-Peter-Schule is a climate-neutral building in the area of educational buildings. The building envelope of the school is constructed according to the passive house standard. The remaining energy requirements for heat and electricity are provided by local producers. The heat is kept in the building by highly efficient heat recovery from the ventilation system and by highly insulated building components. The use of a heat pump and an ice storage tank in combination with solar air collectors ensures optimal use of the ambient heat. In addition, the ice storage tank can be used for passive cooling in summer, which ensures particularly energy-efficient operation.

The realisation was financially supported by the nationwide support programme "Efficiency House Plus" for educational buildings in Germany.

	<b>21.5.</b>	<b>23.5.</b>
Meeting point	Heidelberg Central Station, 3:00 pm	Kongresshalle, 4:00 pm
Transfer	Bustransfer	Bustransfer
Duration	from 3:45 to 4:45 pm	from 5:00 to 6:00 pm
End (Location, Time)	Heidelberg Central Station, 5:30 pm	Heidelberg Central Station, 6:45 pm
Number of tours	1	1
Number of participants	25	25
Language	German / English	German / English

## 5 Sustainable Economy: B&S Service GmbH

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Konrad Weiß is founder and owner of B&S Service GmbH, a company for the production of alarm and security systems with more than 30 employees. He incorporates his holistic thinking and acting into his entrepreneurial decisions, which led him to run the in-house biomass heating with self-produced Miscanthus reed and wood chips, and to visit corporate customers mostly with hybrid and electric cars, to be charged at the self-constructed solar carport on the company premises. Konrad Weiß is himself an enthusiastic cyclist and last autumn he once again set an example in the direction of emission reduction and climate protection with the purchase of an e-cargo bike. Weiß is very authentic in his sustainability-oriented thinking and acting and was awarded for the special composition and effectiveness of his systemically oriented "resource efficiency approaches" by the state of Baden-Württemberg.

	<b>21.5.</b>	<b>23.5.</b>
Meeting point	Heidelberg Central Station, 3:00 pm	Kongresshalle, 4:00 pm
Transfer	Bustransfer	Bustransfer
Duration	from 4:00 to 5:30 pm	from 5:00 to 6:00 pm
End (Location, Time)	Heidelberg Central Station, 6:30 pm	Heidelberg Central Station, 7:00 pm
Number of tours	1	1
Number of participants	25	25
Language	German / English	German / English

## 6 Stadt-Land-Rad Project: A Guided Bicycle Tour Through Heidelberg

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The focus of the Stadt-Land-Rad project is to bring children into contact with the fun of cycling, to get to know their own country better and to teach them how to use navigation technology in a playful way. The project is aimed at school classes of level 5 and 6 in secondary and grammar schools and is designed as a competition between several classes. The class that cycles the most kilometres per participant and answers most questions correctly wins and receives an attractive prize. The project was initiated by the ADFC Rhein-Neckar/Heidelberg with various partners and is financed by the city of Heidelberg.

In this excursion the participants can discover Heidelberg on a guided bicycle tour and experience Stadt-Land-Rad in practice.

	<b>21.5.</b>	<b>23.5.</b>
Meeting point	Universitätsplatz, 3:30 pm	Universitätsplatz, 4:00 pm
Transfer		
Duration	from 3:30 to 5:00 pm	from 4:00 to 5:30 pm
End (Location, Time)	Universitätsplatz, 5:00 pm	Universitätsplatz, 5.30 pm
Number of tours	1	1
Number of participants	20	20
Language	German / english	German / english

## 7 Renewable Energy Cooperatives, District Supply Heidelberg-Südstadt

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The Heidelberger Energiegenossenschaft implements renewable energy projects that contribute to climate protection and energy system transformation. Citizens are to be given the opportunity to participate financially in these projects from an amount of 100 €. Thus also people, to whom investments in renewable energies would not normally be possible, get an opportunity to participate in the energy supply of the future.

On 21 May, visitors will be able to experience the innovative energy concept at first hand in Heidelberg-Südstadt. This includes several solar panels on the roofs of the residential buildings, whose electricity is supplied directly to the residents, as well as a storage facility and a charging station for electric vehicles. Thanks to this innovative sector coupling, significantly more solar power from the roof can be used directly in the quarter than normal.

### 21.5.

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Meeting point	Heidelberg Central Station, 3:30 pm
Transfer	By tram
Duration	from 4:00 to 5:00 pm
End (Location, Time)	Heidelberg Bismarckplatz, 5:30 pm
Number of tours	1
Number of participants	80
Language	German / English



## 8 Center for Environmentally Conscious Mobility

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The City of Heidelberg, together with civil society actors, has defined numerous measures for climate-neutral mobility in its Masterplan for climate action. In order to make regional transport relations sustainable, the Master Plan "Sustainable Mobility for the City" was developed together with the cities of Mannheim and Ludwigshafen. At the Center for Environmentally Conscious Mobility (Zentrum für umweltbewusste Mobilität, ZUM), the Office for Traffic Management of the City of Heidelberg will present the concept for promoting sustainable mobility and the resulting individual measures for digitizing and electrifying traffic, networking in local public transport, promoting bicycle traffic and further developing urban logistics. ZUM, which is supported by the city of Heidelberg, presents itself as an institution with its positive effects on the transition of citizens to sustainable means of transport. There will be an opportunity for discussion and exchange on suitable measures to promote environmentally conscious mobility in urban areas.

### 21.5.

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Meeting point	Heidelberg Central Station, 3:45 pm
Transfer	
Duration	from 4:00 to 5:30 pm
End (Location, Time)	Central Station, 5:30 pm
Number of tours	1
Number of participants	25
Language	English

## 9 Electromobility in Theory and Practice

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The VRD Foundation for Renewable Energy provides a fleet of electric vehicles (cars, mopeds and bicycles). The first input deals with the smart combination of different means of transport in order to travel as environmentally friendly as possible. Afterwards the peculiarities and challenges of electromobility will be presented and systemic differences to combustion vehicles will be explained - practically and without many technical details. In the end you can have a ride with electric cars, an electric moped and an electric bicycle (pedelec).

	<b>21.5.</b>	<b>23.5.</b>
Meeting point	Universitätsplatz, 4:30 pm	Universitätsplatz, 4:00 pm
Transfer		
Duration	from 4:30 to 6:00 pm	from 4:00 to 5:30 pm
End (Location, Time)	Universitätsplatz, 6:00 pm	Universitätsplatz, 5:30 pm
Number of tours	1	1
Number of participants	30	30
Language	German / English	German / English

## 10 Wandelgarten and TransitionHaus – Local Climate Protection Projects

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This excursion leads to two climate protection projects in the Kirchheim district:

- The “Wandelgarten” is a neighborly community garden, with the focus on a lifestyle that can sustain future generations, community-building and gardening according to permaculture methods.
- The “TransitionHaus” is a venue for events and inspiration. In workshops, film evenings, exhibitions and much more, visitors are encouraged to develop new sustainable habits that are not only forward-thinking, but also joyful.

The two projects are realised by Transition Town Heidelberg e. V., which is part of the worldwide Transition movement. They are funded by the "Short Paths to Climate Protection" programme as part of the Federal Environment Ministry's National Climate Protection Initiative. The idea for this funding programme was born at ICCA 2015.

### 23.5.

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Meeting point	Kongresshalle 4:00 pm
Transfer	Bustransfer
Duration	4:30 to 6 pm
End (Location, Time)	Central Station 6:30
Number of tours	1
Number of participants	30
Language	English

## 11 Terraced Garden in Monastery Stift Neuburg: Biodiverse Planting

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Despite the need to counteract and prevent the overheating of our cities by reopening and replanting areas, the number of so-called gravel gardens is increasing dramatically under the pretext of easy maintenance.

The terraced garden at Neuburg Monastery, in an exposed, sunny location, was watered only once in the hot and dry summer of 2018. There were no failures. It accommodates a large number of plant species that do not lose their attractiveness even under extreme conditions. Last year it was presented to a specialist audience at the Weinheim Garden Talks - Aspects of Climate Change (under the patronage of Prof. Cassian Schmidt).

It is located in the seclusion area of the monastery and is not open to the public. For the Climate Neighbourhoods the garden will be opened for this one time and a guided tour with information about plants, plant selection as well as an experience report will be offered. In addition, the meaning of plants as climate makers will be explained. After the tour, the participants can have a break in the monastery restaurant or visit the monastery brewery.

### 23.5.

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Meeting point	Kongresshalle, 4:00 pm
Transfer	Public transport
Duration	from 4:30 to 5:30 pm
End (Location, Time)	Central Station, 6:15 pm
Number of tours	1
Number of participants	30
Language	German / English

## 12 Solar Boat Trip

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Powered by the power of the sun! While the ship glides gently and quietly, the passengers experience the most charming views of the city of Heidelberg.

### 23.5.

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Meeting point	Kongresshalle, 4:00 pm
Transfer	
Duration	from 4:00 to 5:00 pm
End (Location, Time)	Kongresshalle, 5:00 pm
Number of tours	1
Number of participants	100
Language	English

## 13 Sustainable Economy – the Heidelberg Brewery

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The Heidelberg Brewery is part of the Sustainable Business Network in Heidelberg. This network promotes cross-company learning and the exchange of experience between SMEs in sustainability-related matters. In the field of energy efficiency in particular, it has already been possible to push ahead with the implementation of climate-friendly measures. The example of the brewery shows that by investing in process optimization (thin film evaporation), the cooking time could be reduced from 60 to 10 minutes, resulting in energy savings.

### 23.5.

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Meeting point	Universitätsplatz, 4:00 pm
Transfer	Public Transport
Duration	from 4:30 to 6:30 pm
End (Location, Time)	Central Station, 7:00 pm
Number of tours	1
Number of participants	20
Language	English

## 14 Sustainable Economy – ABB Stotz Kontakt GmbH

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With the growing population in urban areas the challenge of providing an adequate infrastructure for public transport, energy and water supply arises. Digital solutions by ABB can contribute to turning conventional cities into smart ones, especially in the sectors of supply (Smart Utilities), buildings (Smart Buildings), transport system (Smart Transportation) and industries (Smart Industries). ABB offers basic technologies to support cities to master current and future challenges.

### 23.5.

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Meeting point	Universitätsplatz, 4:00 pm
Transfer	Public Transport
Duration	from 4:30 to 6:30 pm
End (Location, Time)	Central Station, 7:00 pm
Number of tours	1
Number of participants	20
Language	English