

Excursion B on 28th and optional on 29th September 2017

Large-Scale Technical Remediation at the Open-Cast Lignite Mine Welzow, Technical Recycling of Iron Hydroxide Sludges, and Optional Visit of the Historical Town Center of Dresden.

Germany is still yet one of the largest producers of lignite coal worldwide. After the completion of coal mining in a depleted subfield, recultivation of this subfield is started. Recultivation contains the covering of the pit section with overburden, barrier and topsoil substrates and the subsequent recultivation of the area. The largest overburden conveyor bridge of the world is located in this area. This all can be visited in the first part of the excursion in the open-cast lignite mine Welzow in the Lusatia. Furthermore, a very modern mine water treatment plant and finally a recycling company in Lauta for the technical recycling of iron hydroxide sludges can be visited. The recycling products are sold worldwide as reagents for the treatment of exhaust gas streams and for water treatment.

Dresden is a former royal town with a cultural and architectonic prosperity time during the baroque era, when the kings of Saxony had their royal seat there. The origin of the prosperity were the silver mining in the nearby mountains (see Freiberg) and the famous royal porcelain manufacture.

The viewing of remediation in the open-cast mine Welzow will take place with up to 6 participants, respectively, in off-road cars; the visit of the mine water and iron sludges treatment plants will be by bus transport. The visit of the iron sludge recycling plant will be performed in two guided groups.

Participants can complete their excursion tour after the visit of the open-cast mine and the recycling plant, and return by bus to Dresden or to Freiberg. The participants can optional stay in Dresden, attend at a local dinner together, and take part at a cultural sight seeing tour in the historical town area at Friday 29th September (guided tour Green Vault, sight seeing by bus). For the overnight-stay in Dresden pre-booked rooms in a Hotel in downtown Dresden are available.

Number of participants: max. 33 participants, Please note: This tour will only take place when at least 25 participants have booked the tour.

Estimated costs:

- technical excursion around 30 € plus lunch (around 5 €),
- accommodation (59 € single room, incl. breakfast; 79 € double room, incl. breakfast)
- dinner (28.09) → self-payment
- lunch (29.09) in the „Cosel Palais“ ca. 19€
- charges for the entry ticket “Green Vault” and sight seeing tour (26 €)

To help us organizing the optional part in Dresden, please indicate on the registration form (first page, comments) whether:

- you would like to join the dinner (28.09) and the lunch (29.09)

- you would like to stay in the Hotel in downtown Dresden in one of the pre-booked rooms (59 € single room, incl. breakfast; 79 € double room, incl. breakfast)

Open pit lignite mine Welzow with recultivation and iron sludge recycling – Technical programme and optional additional sightseeing programme

Thursday, 28 September 2017

Part I: Technical excursion to the large open pit lignite mine Welzow (Lusatia)

Suggested schedule

- 6:30 Departure by bus from Freiberg to Welzow
- 9:00 – 12:30 Visit of the open pit lignite mine Welzow-South and of the recultivation (technical covering, plantation) of the depleted subfields
- 12:30 -13:00 Lunch in the cafeteria of the mine (5 lunch options are selectable)
- 13:20 – 14:20 Visit of the mine water treatment plant „Am Wolkenberg“ (Cloud Hill)
- 14:30 – 15:30 Ride to the company PUS in Lauta
- 15:30 – 17:00 Visit of the iron sludge recycling plant in Lauta (production of exhaust gas treatment additives and water treatment reagents from iron hydroxide sludges)
- 17:00 – 19:00 Bus ride to Dresden or back to Freiberg

End of the Technical Excursion part

Optional:

Part II: Sightseeing excursion to the historical royal town of Dresden

- 19:30 – 22:00 Dinner with local food and beer in downtown Dresden

Overnight: Stay in Dresden

Friday, 29.09.2017

Cultural sight seeing

- 9:00 – 11:00 Visit of the treasure collection „Green Vault“ in Dresden, one of the few famous royal treasure collections in Europe
- 11:30 – 13:00 Lunch in Dresden in the historical baroque restaurant „Cosel Palais“
- 13:30 – 15:00 Sightseeing tour of the historical downtown area of Dresden
- around 15:00 End of the excursion, participants can stay in the area, or prepare their departure from Dresden, or ride to their airports of departure.