

„How to integrate biodiversity into the energy sector in Germany”

Field Trip on Monday 18 April, Regional Workshop for Europe on updating NBSAPs

Bioenergy: Risks and benefits

Bioenergy crops lead to more high intensive farming, the disappearance of grassland as well as more fodder/food imports

Energy transport: Risks and benefits

Offsetting arrangements for large infrastructure projects, example of the interstate highway A20

Wind turbines and Solar Power: Risks and benefits

Spatial planning approaches to minimize environmental impacts of renewable energy



„How to integrate biodiversity into the energy sector in Germany”

Field Trip on Monday 18 April, Regional Workshop for Europe on updating NBSAPs

„Energieeinspeisegesetz“ (2004)

Federal Act to secure certain prices for renewable electric energy that is fed into the main electric power net.

It covers windpower, solar power, hydro power, geothermal power, and biomass.

Provides investors with a secured price for their electricity for the next 20 years.

Powerline operators must buy the electricity at this cost, which is much higher than the normal cost for electricity.



Introduction

Introduction

Route and Stops

Stralsund College

Lake

Biodiversity ???



Wind power is becoming more and more popular...

- Idea – very good
- “Windeignungsgebiete” set up on a regional level to speed up the approval process – if done after a good analysis – very good
- So far only some states have established standard survey and analysis procedure for a final risk assessment...especially regarding birds and Species listed on Annex IV of the Habitats Directive
- Politicians may want to speed up things even more in the future
- Repowering/Offshore



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Route and Stops

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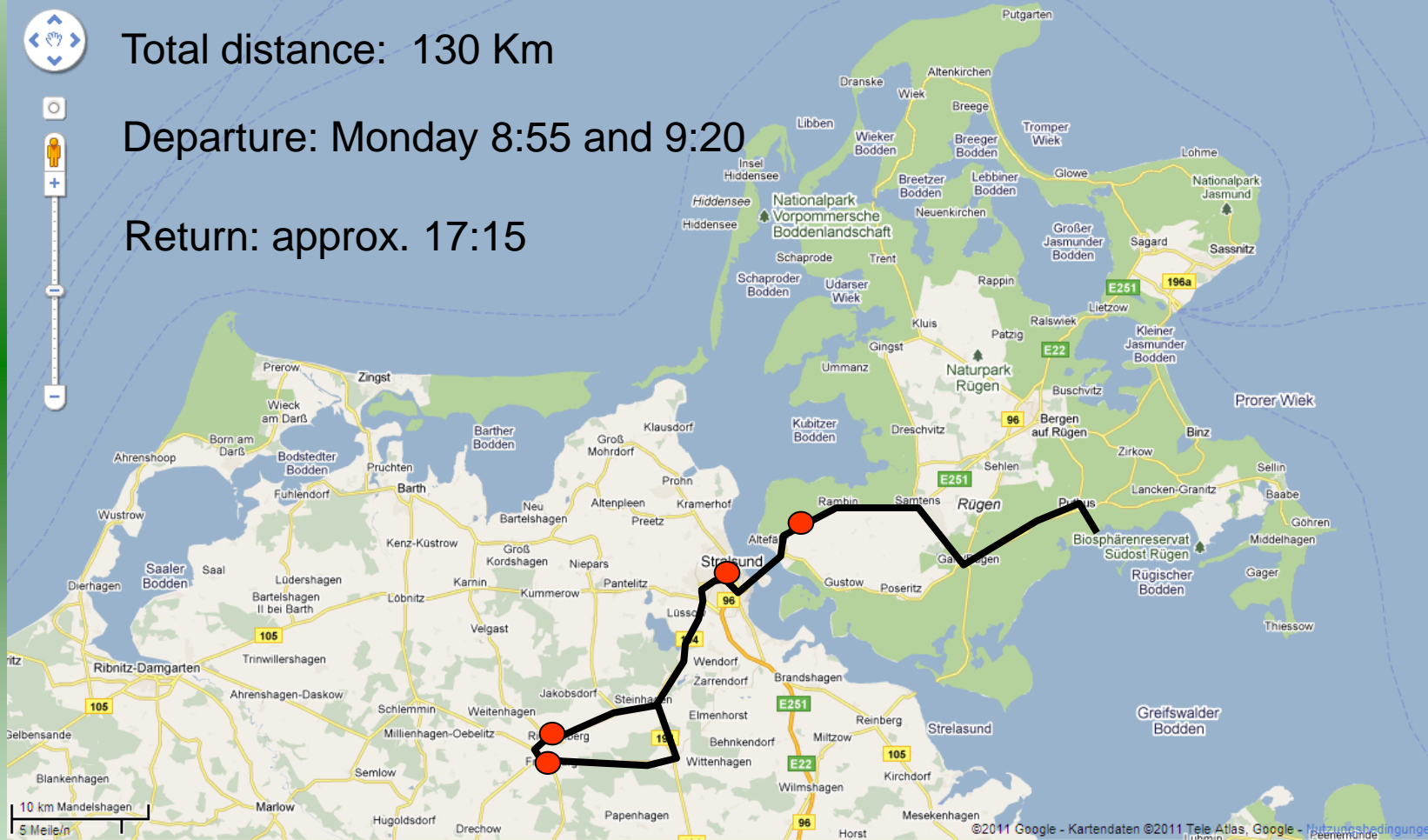
Fermentation
Plant
„Rotenkirchen“



Total distance: 130 Km

Departure: Monday 8:55 and 9:20

Return: approx. 17:15





College (I

campus of the



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College

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Fermentation
Plant
„Rotenkirchen“

11.15 to 11.30 short presentation of the institute and IRES
(Hörsaal 7 Haus 4)

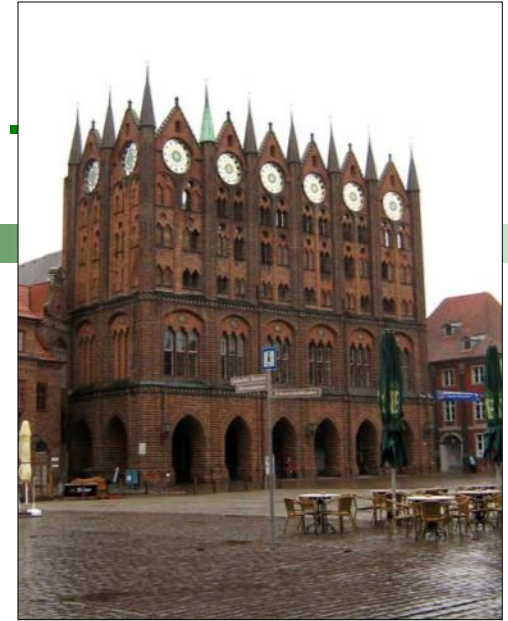
11.30 guided tour of the institute's laboratory KAE in two
separate groups by Dr. Fischer and presentation of the VIP
project on bio energy by Prof. Ahlhaus

12.00 group change

12.30 Departure



IRES: Institute of Renewable
Energy Systems



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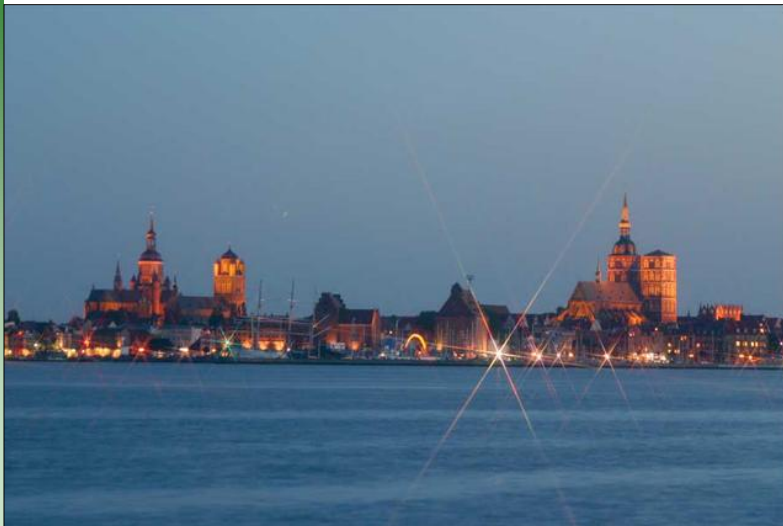
**Stralsund
College**

12:45 – 13:45 Lunch

In the UNESCO World Heritage
Site of Stralsund (old town)

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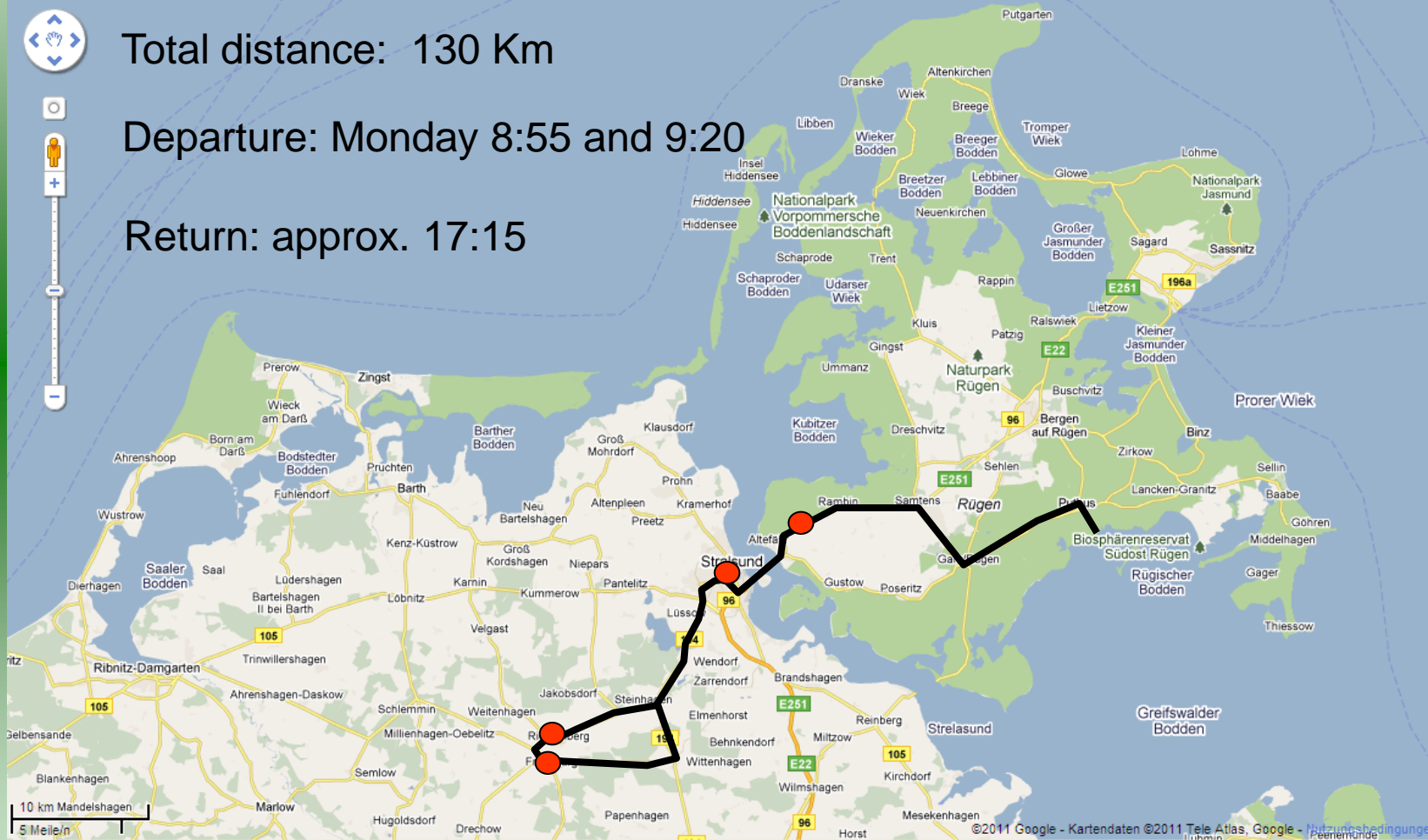
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10 km
5 Meilen



The return

at there



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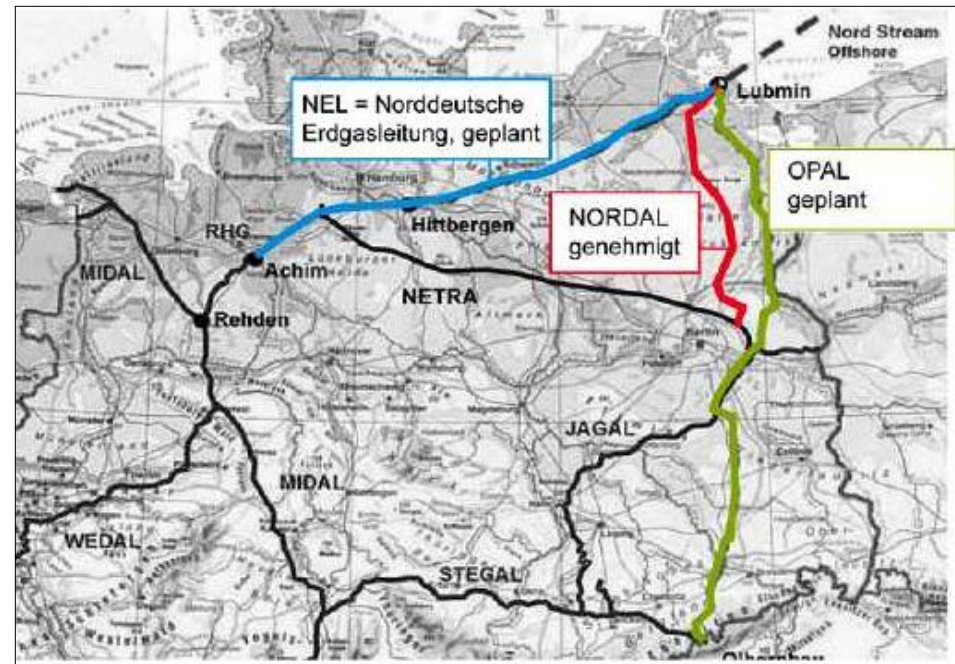
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Plant
„Rotenkirch
en“

Offsets in spacial planning

The transportation of Energie is becoming more and more important

Gas Pipelines: North Stream, Opal, NEL

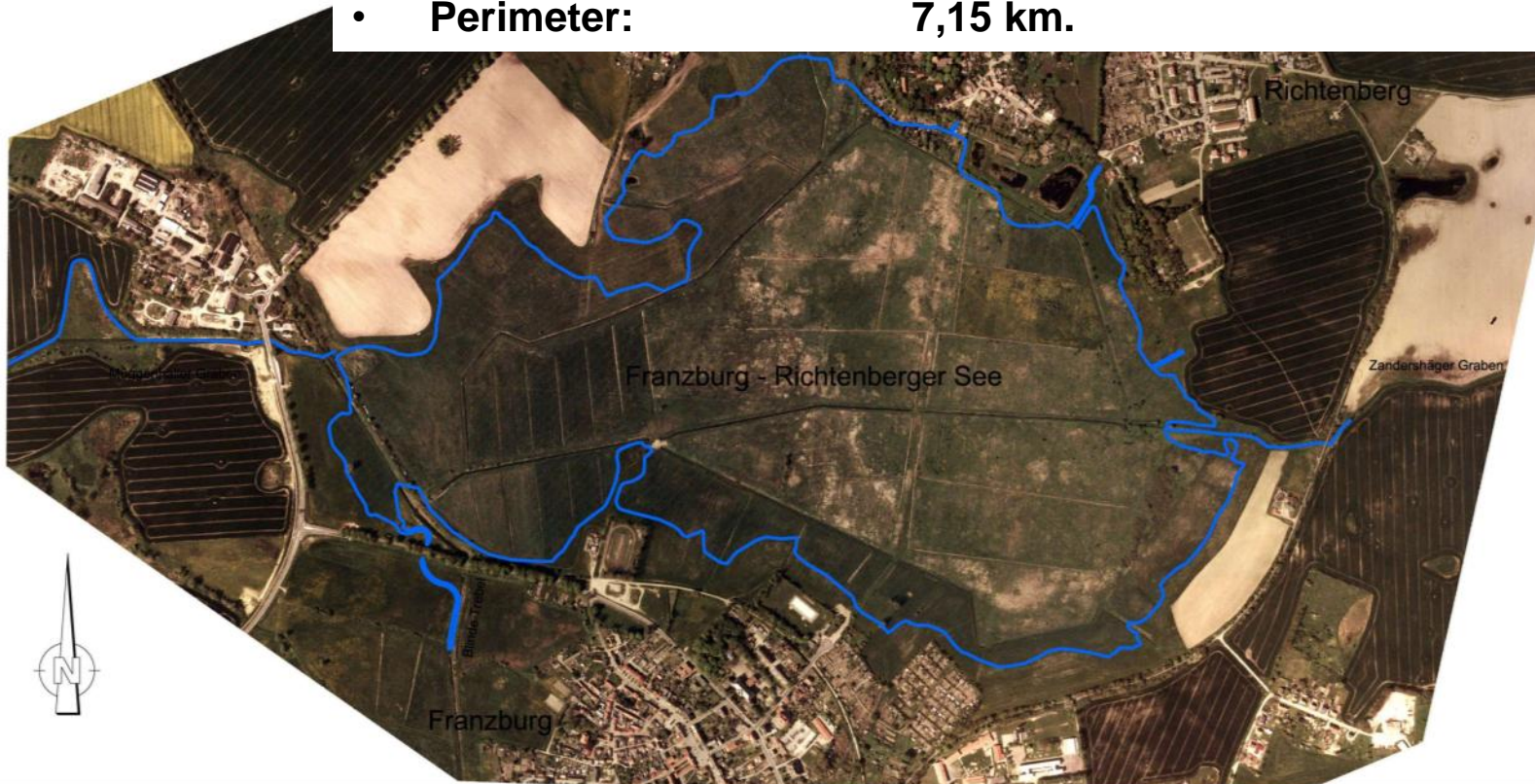
Power lines to transport electricity from the offshore wind turbines to land and further down south



Off

- planned lake size: 128 ha,
- volume: 1,8 Mio. m³,
- Max. depth: 2,5 m,
- Average depth: 1,2... 1,4 m,
- Perimeter: 7,15 km.

Franzburg - Richtent
Zukünftige See
ohne Maßstab



Der Richtentberger See vor einigen Jahren

sein. Die Mönche sollen das Wasser d
Wiederung gestift haben. um einen Kar

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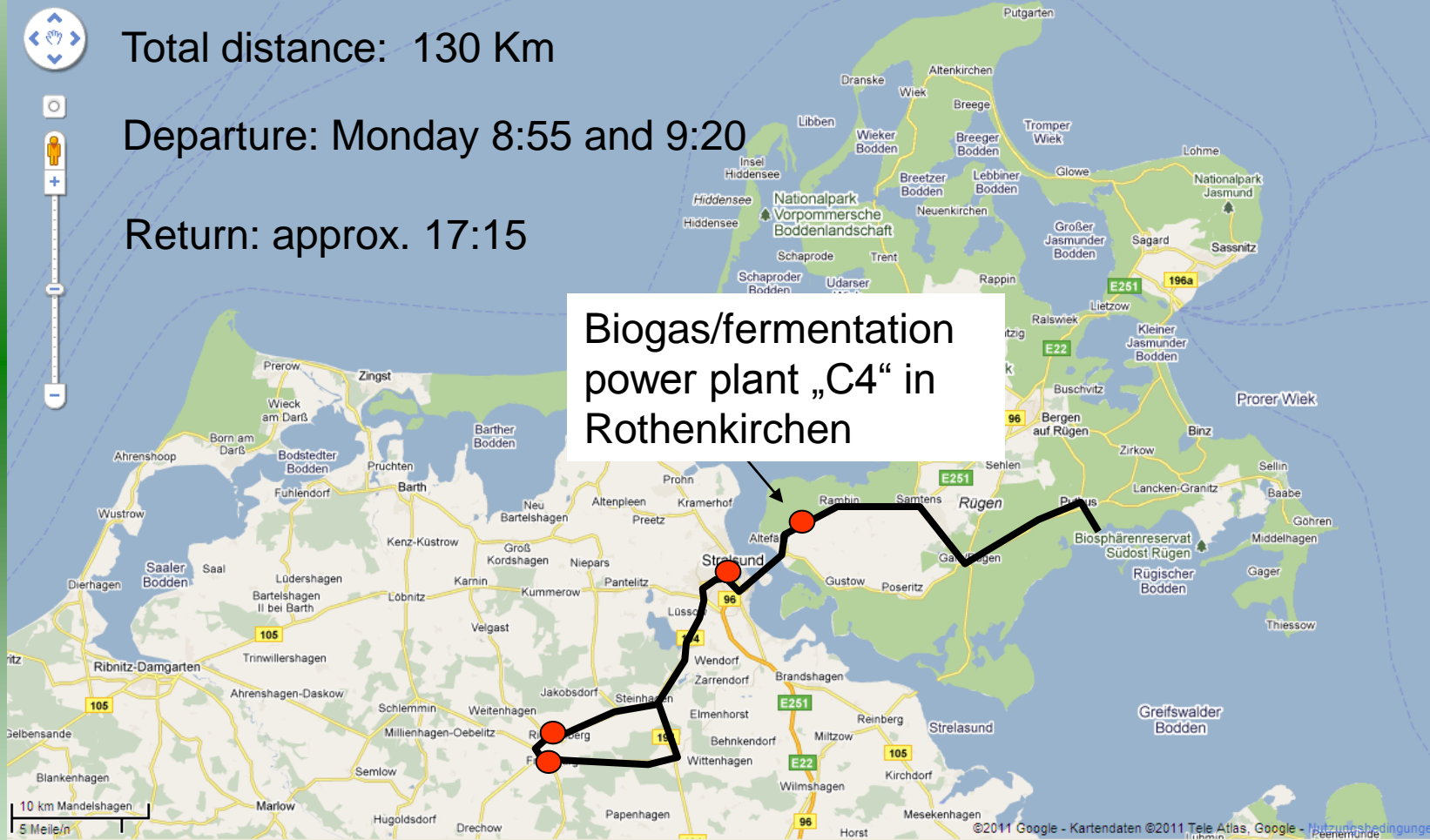
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along ~~Take home messages~~



First boat will leave from Isle of Vilm at

8:55

Second boat will leave at

9:25

