

The effect of the decentralisation of energy production on rural areas

7th June 2013

Johannes Baron
Regierungspräsident

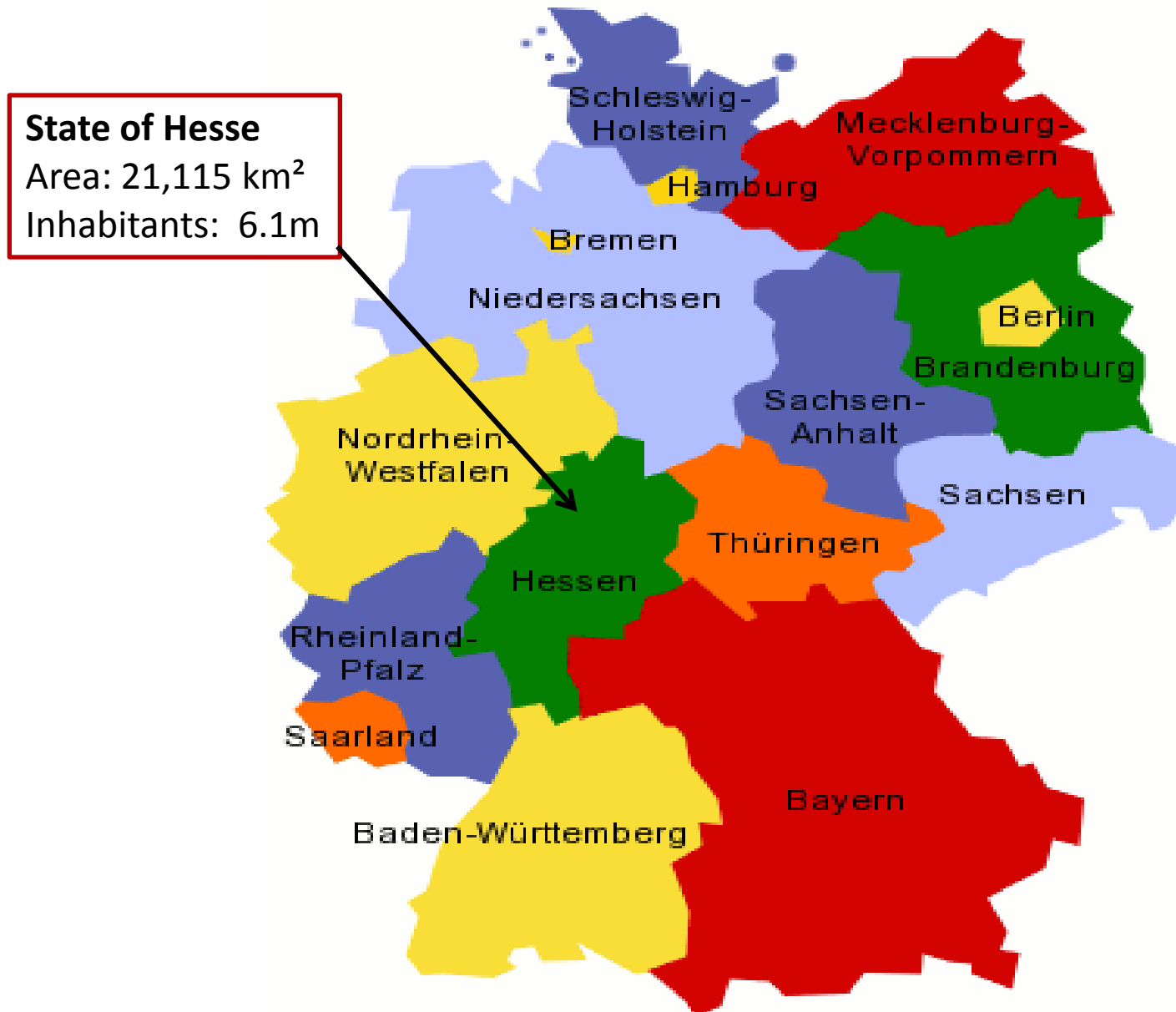


Source: N. Weiß pixelio.de

Europe



Germany with its 16 states



Hesse with its three regions

Central Hesse (Region of Gießen)

Area: 5,400 km²

Inhabitants: 1 m

North Hesse (Region of Kassel)

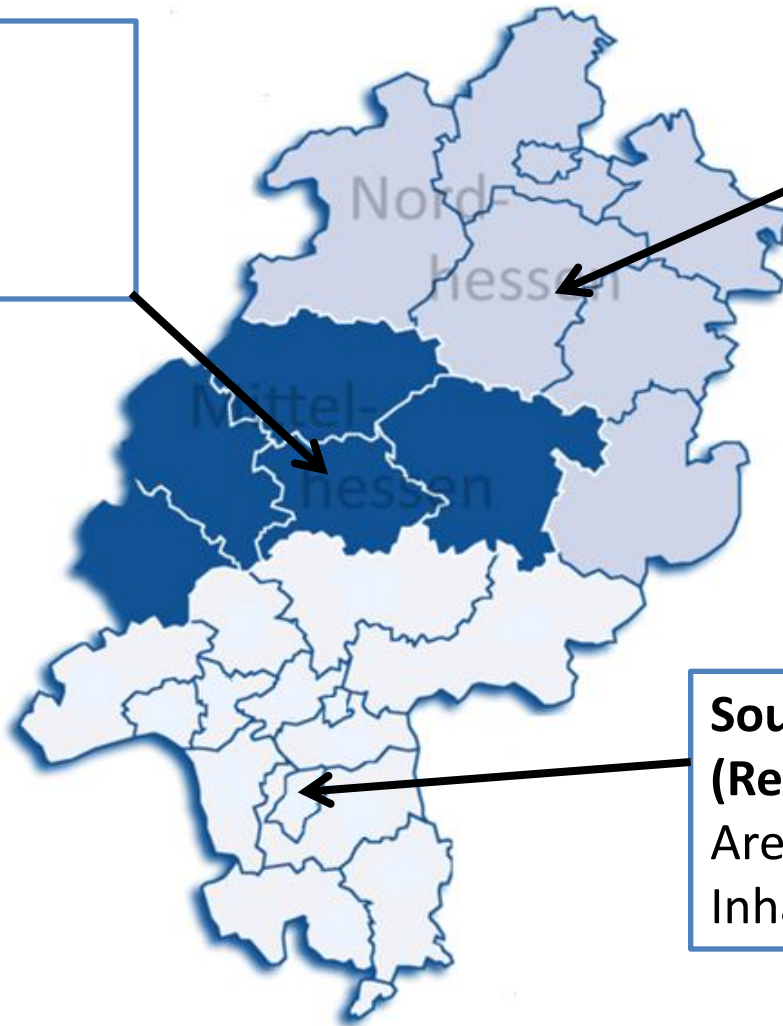
Area: 8,300 km²

Inhabitants: 1.2 m

South Hesse (Region of Darmstadt)

Area: 7,400 km²

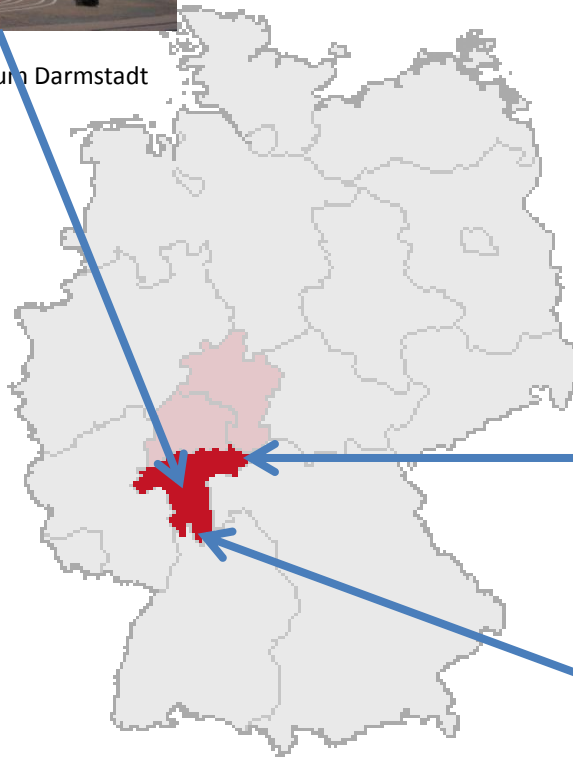
Inhabitants: 3.8 m



South Hesse with rural districts (*Landkreise*) and cities (*kreisfreie Städte*)



Regierungspräsidium Darmstadt



Landkreise

- ① Bergstraße
- ② Darmstadt-Dieburg
- ③ Groß-Gerau
- ④ Hochtaunuskreis
- ⑤ Main-Kinzig-Kreis
- ⑥ Main-Taunus-Kreis
- ⑦ Odenwaldkreis

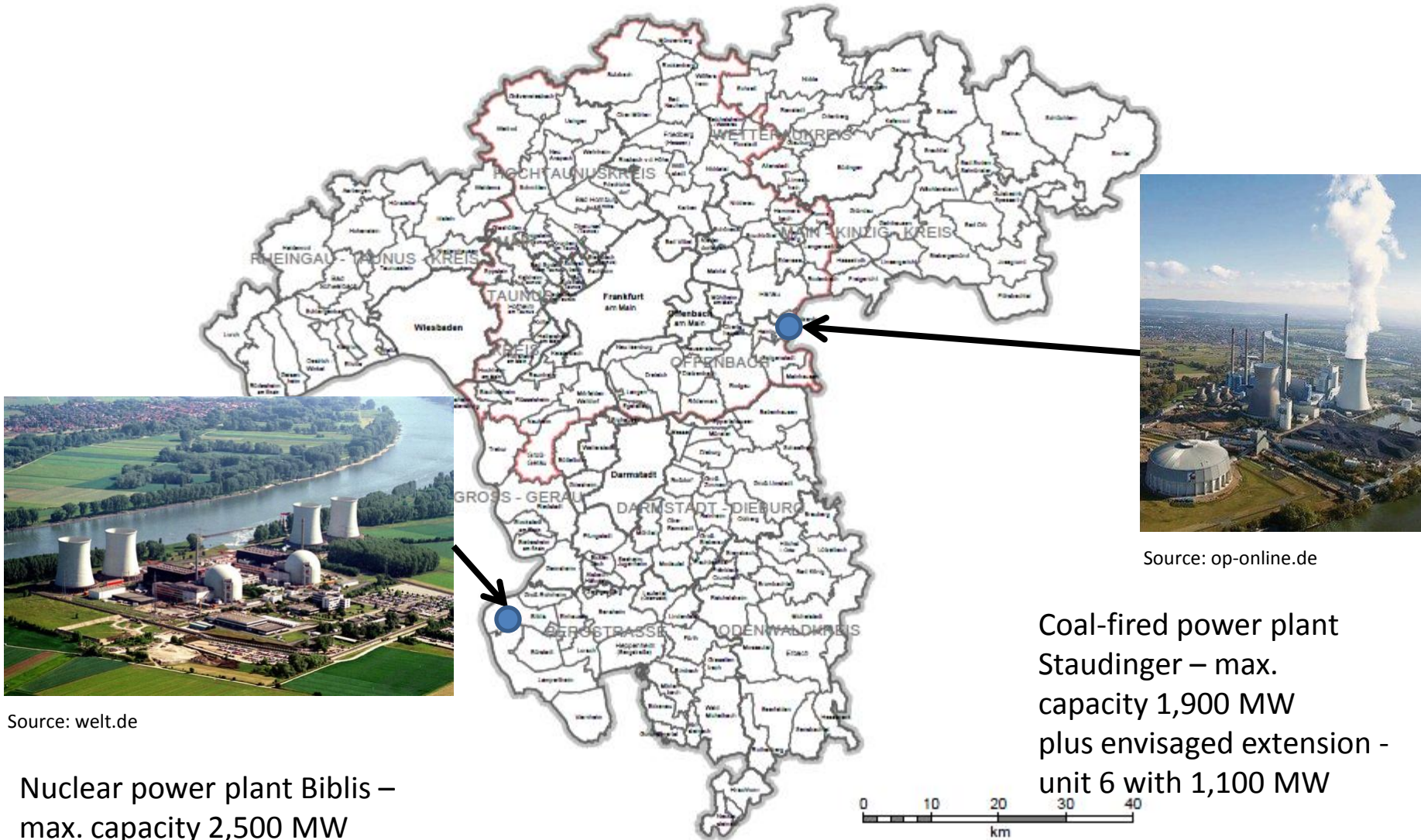


- ⑧ Offenbach
- ⑨ Rheingau-Taunus-Kreis
- ⑩ Wetteraukreis

Kreisfreie Städte

- ⑪ Darmstadt
- ⑫ Frankfurt am Main
- ⑬ Offenbach am Main
- ⑭ Wiesbaden

Generation of electricity in South Hesse in 2010



Nuclear power plant Biblis –
max. capacity 2,500 MW

Coal-fired power plant
Staudinger – max.
capacity 1,900 MW
plus envisaged extension -
unit 6 with 1,100 MW

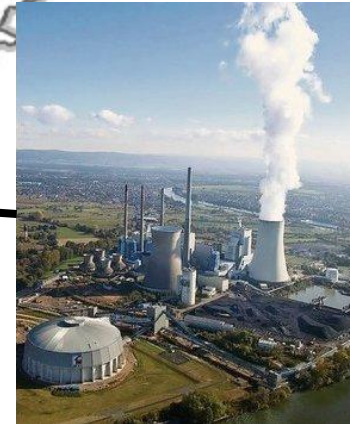
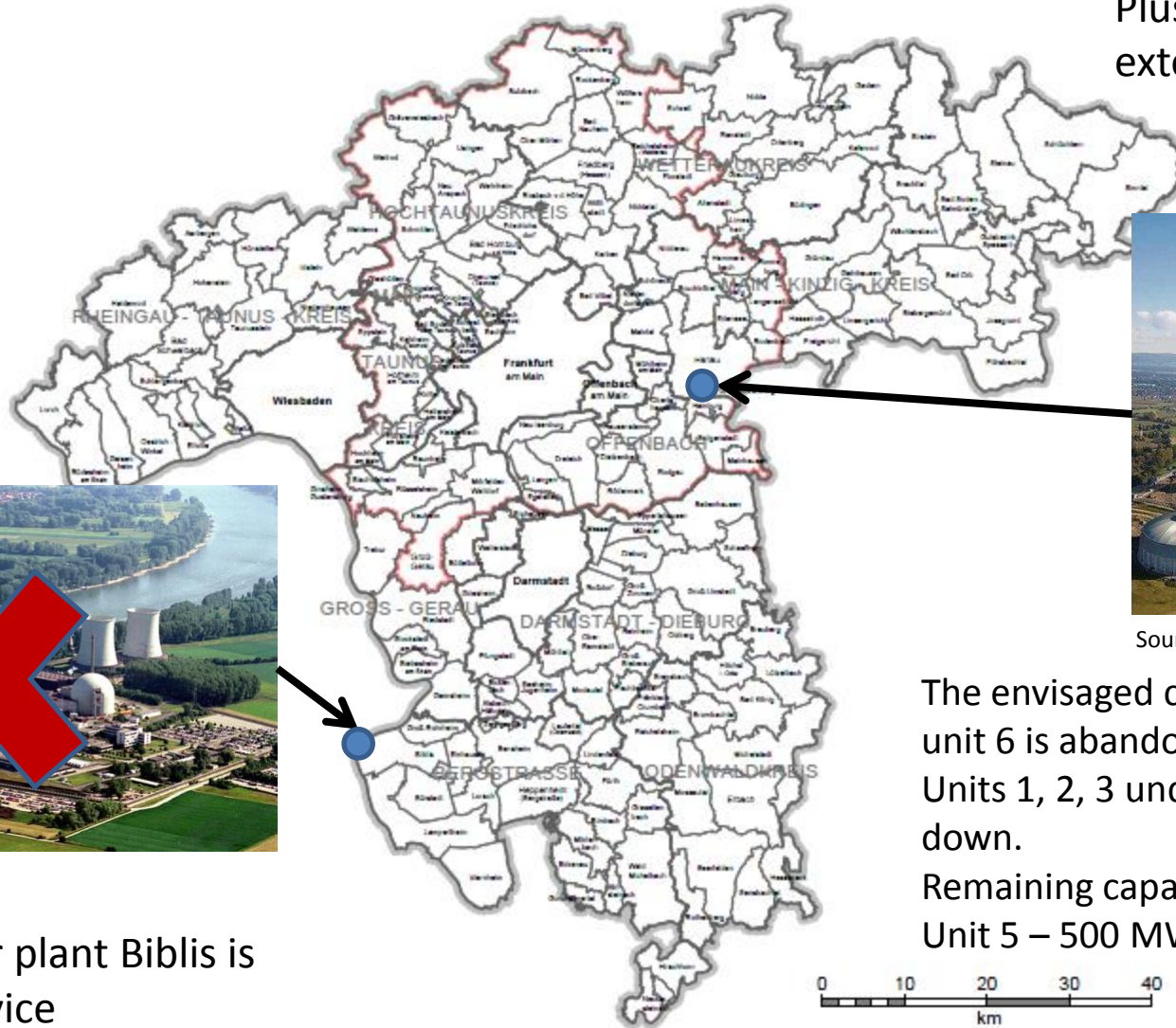
Development of electricity production in South Hesse in 2011/2012

Plus envisaged
extension unit 6



Source: welt.de

Nuclear power plant Biblis is
put out of service

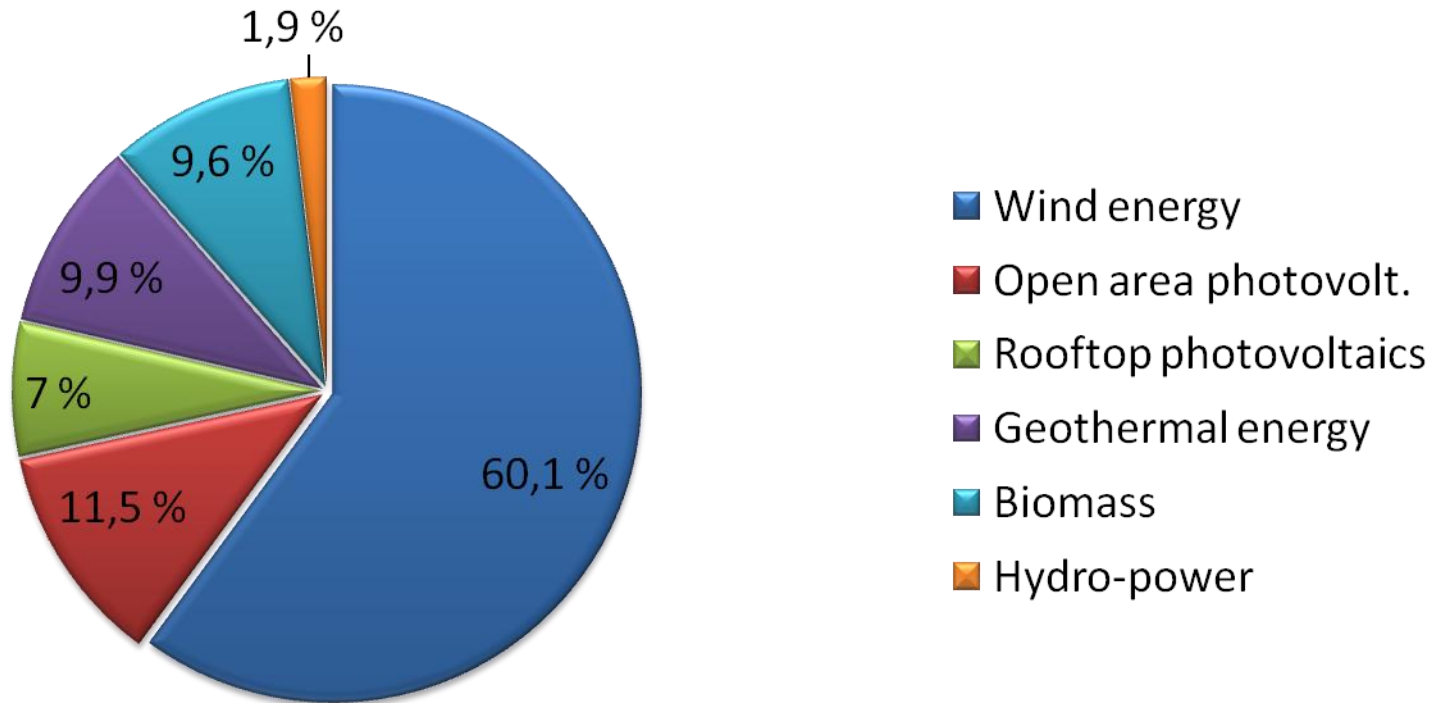


Source: op-online.de

The envisaged construction of
unit 6 is abandoned.
Units 1, 2, 3 und 4 are closed
down.
Remaining capacity:
Unit 5 – 500 MW

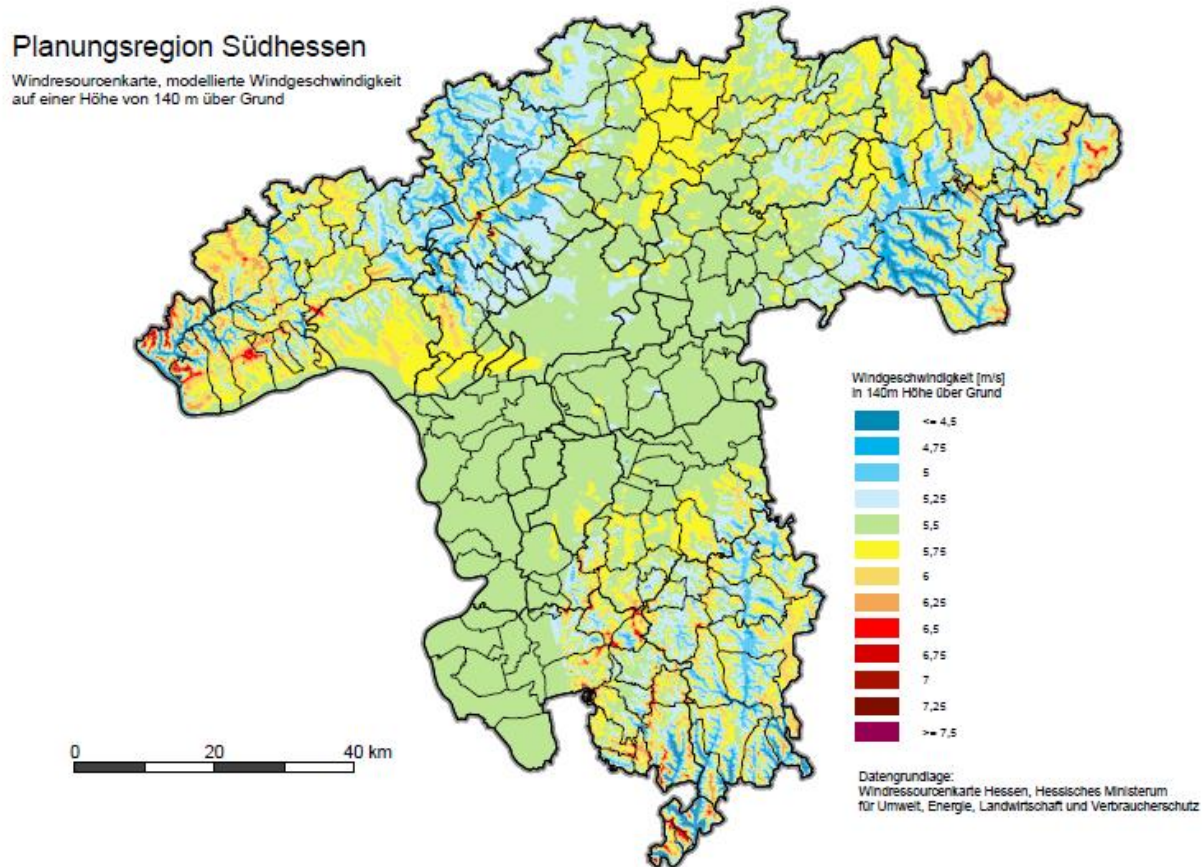
Coverage of electricity demand in the year 2050

**Estimated electricity demand in the year 2050:
27,590 gigawatt hours**



This aim shall be reached by lowering fuel consumption and increasing its efficiency.

Map of wind resources in South Hesse



Development of wind power plants



Source: RP Darmstadt

Number of permits	
2010	6
2011	5
2012	7
2013 (until 31.03.)	18

Development of biogas plants



Source: RP Darmstadt

Number of permits

2010	4
2011	12
2012	20

Development of hydro-power plants



Source: vdei.de

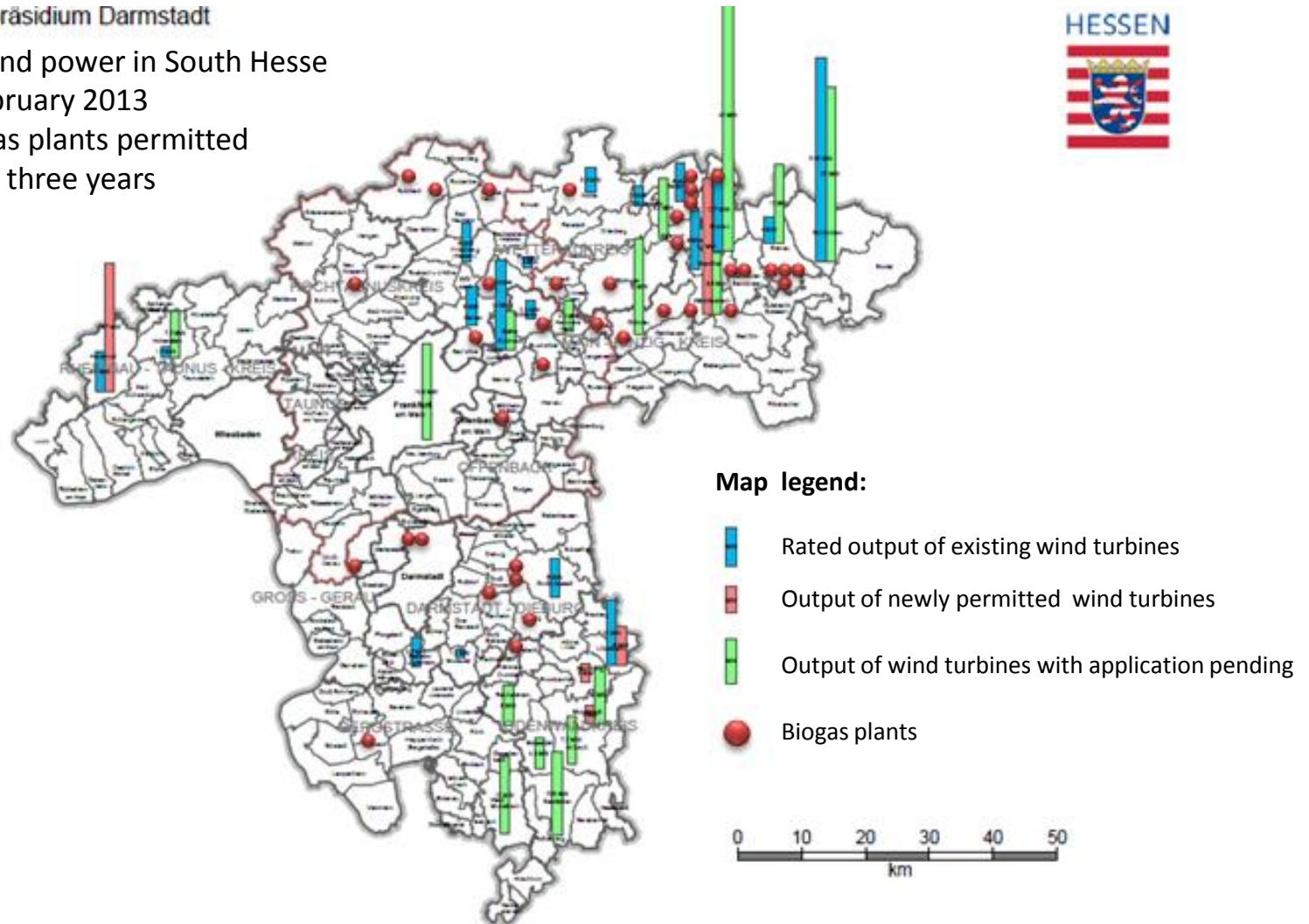
Number of permits

2010	2
2011	-
2012	1

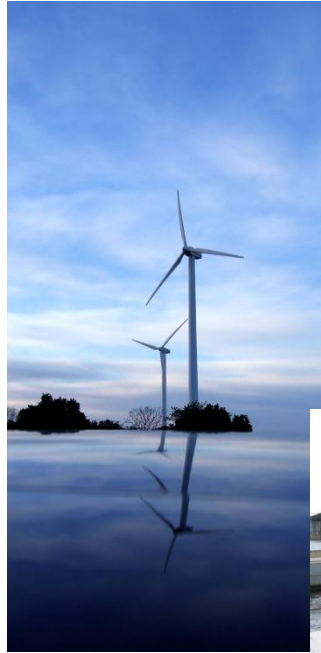
Energy supply (wind energy and biomass) in South Hesse

Regierungspräsidium Darmstadt

Use of wind power in South Hesse
as per February 2013
with biogas plants permitted
in the last three years

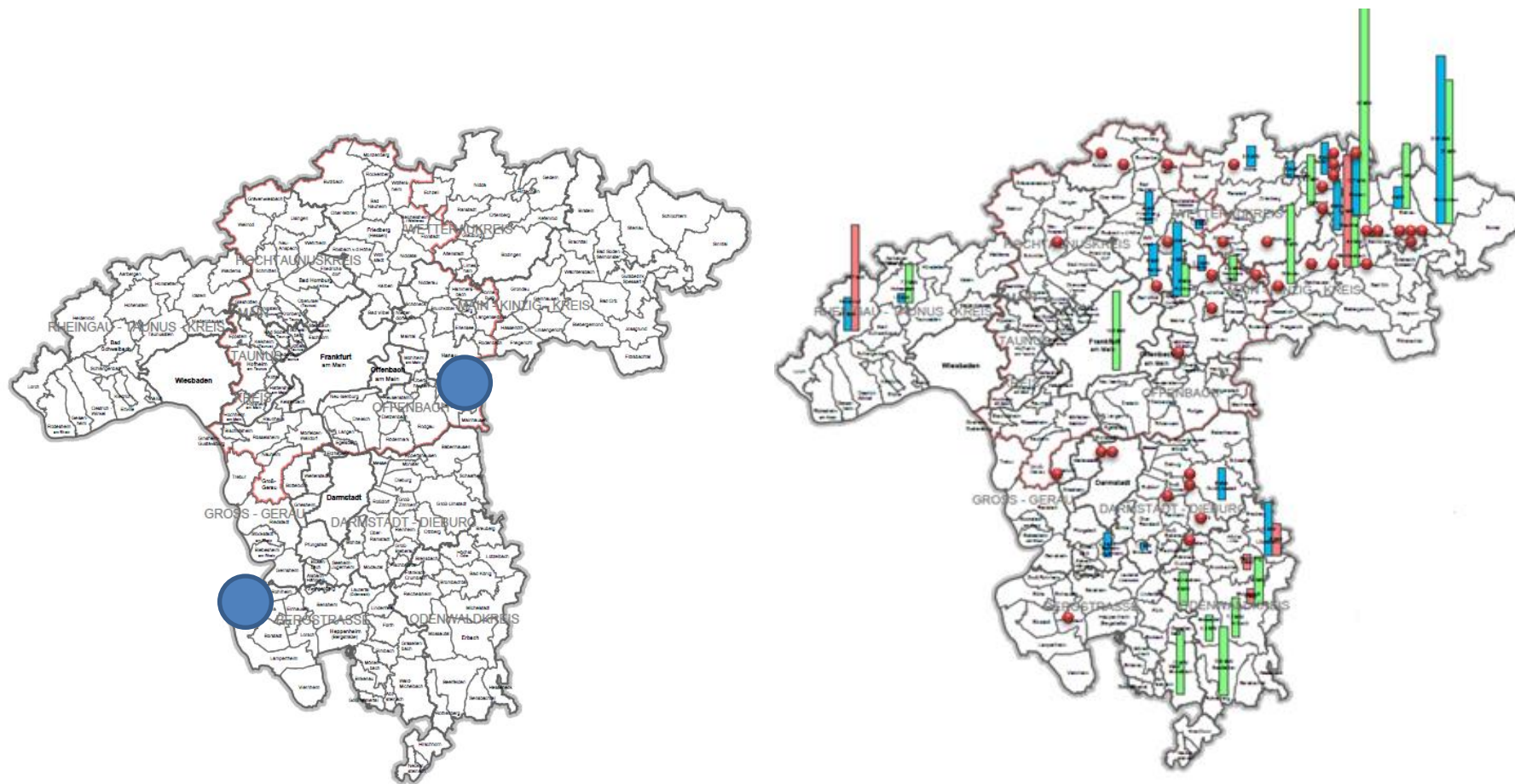


Effects of energy transition on the landscape



Sources: RP Darmstadt and pixelio.de

Electricity supply in South Hesse in 2010 and today



Thank you for your attention!

