

Research Workshop 5 (Water)



Pictures: Carolin Schlenther, pixabay free images

A major challenge associated with climate change is the water supply. Especially the Eastern part of Germany will suffer from droughts and water shortages due to the increasing climate change.

You are an intern at "eins energie in sachsen" in Chemnitz. Your manager is responsible for developing adaptation strategies regarding climate change to ensure the drinking water supply in the city. It is your task to assist him in the project by collecting data on the development of water availability in Chemnitz.

Tasks:

Focus your research on the following tasks and guiding questions:

- Research the fresh water availability in Germany over the next 50 years using the platform "KlimafolgenOnline-Bildung.de" (<http://www.klimafolgenonline-bildung.de/>). Assume that water availability is dependent on the parameter groundwater recharge.
- How will the situation in the region of Chemnitz develop?
- Summarize your findings briefly (keywords).
- The water consumption in Germany decreased over the last 20 years. Is that also the case in the region of Chemnitz? Calculate by what percentage the water consumption dropped in Saxony between the years 1992 and 2013. Additionally, calculate the percentage change for Germany as a whole. Compare and discuss potential reasons for the divergent results. You will find the necessary values for the calculations on the following websites:
 - <https://www.heizsparer.de/spartipps/wasser-sparen/wasserverbrauch>,
 - <https://www.umwelt.sachsen.de/wasser-und-gewaesser-30600.html>

Divide the work between the members of your group.

Review your research findings critically and present each other's findings within the group.

You can proceed as follows:

- Create an outline.
- Summarize your results in short presentation.
- Visualize your findings/ information in graphs, maps and pictures (if possible).
- Use the platform "KlimafolgenOnline-Bildung.de" to visualize developments.

Please present your group's research findings in class, for example as a/an ...

- presentation (with Prezi or PowerPoint)
- newspaper article
- interview with an expert
- video (documentary)
- blog or website



Further resources for the research workshop "water":

- [umweltbundesamt.de: Wasser](http://umweltbundesamt.de:Wasser) The Federal Environmental Agency in Germany provides information about the climate impact in different sectors and regions in Germany. This link leads you to the sections water, high water and coastal protection.
- [swp-potsdam.de: Fragen und Antworten](http://swp-potsdam.de:Fragen und Antworten) "Die Stadtwerke Potsdam" (Potsdam's department of public works) answers questions regarding the topic drinking water.
- [umweltbundesamt.de: Wassersparen](http://umweltbundesamt.de:Wassersparen) Here you will find facts, background information and advice from the Federal Environmental Agency regarding the topic: Saving water in private households.