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Water - 4 hour course

Agenda and Timeline

Hour 1:

10 minutes: Relevance: Introduction, how water affects us, global water distribution

15 minutes: Climate change and water, the Hydrologic Cycle, water sources and distribution in more detail

15 minutes: Water consumption: terms, trends in usage, virtual water trade, bottled water

10 minutes: Video – “The Story of Bottled Water”

***** 10 minute break *****

Hour 2:

10 minutes: Water scarcity introduction: Water as a renewable resource?, social effects of scarcity, water management issues

40 minutes: Video examples:

3:23 – Water Mismanagement in Spain

12:19 – Competing for Water: Conflict

11:30 – Competing for Water: Local governance

10:29 – Competing for Water: Powerful users

***** 10 minute break *****

Hour 3:

10 minutes: Social implications of water scarcity: women, children, water as a basic human right, UN resolution

40 minutes: Water-related disease: global disease burden, DALY, sanitation, hygiene, health impacts, improvements

***** 10 minute break *****

Hour 4:

10 minutes: Water pollution: contamination sources, terms, types of pollutants, agricultural impacts, and impaired waters

10 minutes: 2 Video examples of India’s water crisis

15 minutes: Wastewater: history of the Clean Water Act, wastewater treatment

15 minutes: Solutions to the water crisis: recycling, rainwater catchment, desalination

10 minutes: Concluding thoughts and discussion