How much freshwater does each person need per Survival ≈ 7.5 L day? Full hygiene ≈ 20 L

About how many people lack access to safe

freshwater? ≈ 2.5 billion people

(85% of human population lives in driest parts of

How much freshwater do we (humans) use per day?

http://www.theworldcounts.com/stories/average-daily-water-usage

≈ 10 billion tons

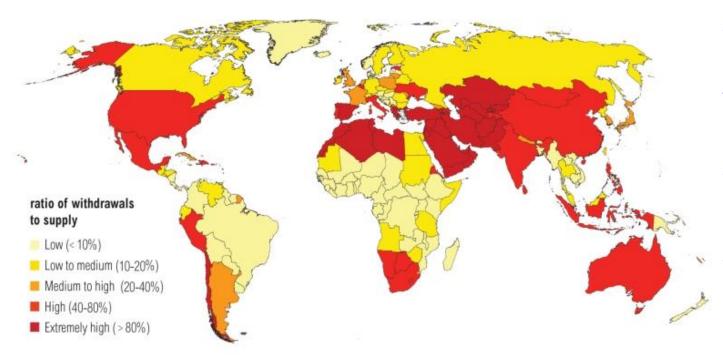
Topic 4.2 Water Scarcity and Solutions

What do we use freshwater for?

- Irrigation (agriculture growing crops)

 Generating electricity (hydro-electric, steam turbines)
- Cooling (nuclear power stations, factories)
- Products (cement, paper, clothes)
- Consumables (foodstuff, beverages, medicines)
- Waste disposal (domestic sewage, chemicals)

Water Stress by Country: 2040



Which regions or countries are facing the highest water stress?

Why are these facing higher water stress?

Why are some countries facing lower water stress?

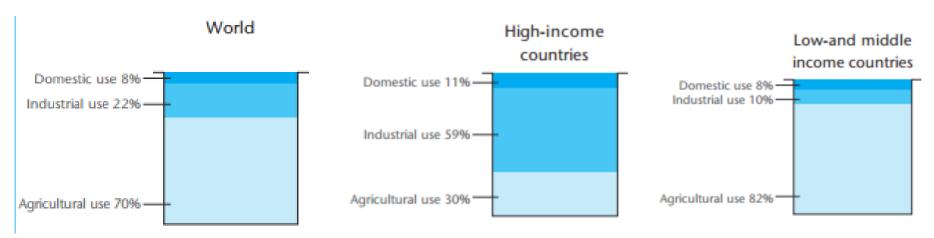
NOTE: Projections are based on a business-as-usual scenario using SSP2 and RCP8.5.



Competing water uses for main income groups of countries⁶

Industrial use of water increases with country income, going from 10% for low- and middle- income countries to 59% for high-income countries.

Ref. 6: "Water for People, Water for Life" United Nations World Water Development Report, UNESCO, 2003 www.unesdoc.unesco.org



Mali (LEDC: North-West Africa) ≈ 4 m³ per year per person

India (NIC: South Asia) ≈ 52 m³ per year per person

USA (MEDC: North America) ≈ 215 m³ per year per person