Monday 6th June 2022

Case Study – [Freiburg, Germany](https://youtube.com/watch?v=rmY9YvVOf6M)

Urban Sustainability – A city that does not rely heavily on its surroundings, and powers itself with renewable energy.

Social Planning:

* Residents can invest in sources of renewable energy:
  + £5 million invested in renewable energy, including wind, solar, and hydroelectric.
  + Free football tickets given to the investors.
* Energy conservation scheme at the local school
* Financial incentives for composting and taking responsibility for their waste.

Economic Planning:

* 10,000 people employed in 1500 different environmental businesses.
* Solar training centre provides training on solar technology.
* Many solar companies are based in Freiburg.
* The Institute for Solar Energy Systems conducts research into solar technology.

Environmental Planning

* Increase in re-using and recycling
* 350 recycling collection points
* 88% of all packing waste is recycled
* Biogas is made from organics (waste food and garden waste)
* 28,000 homes use energy from burned waste

What makes Freiburg Sustainable?

* Sustainable Water:
  + Rainwater is collected, and roof gardens recycle water.
  + Ground water is protected, and drainage wetlands are used.
  + The water usage has been reduced.
* Sustainable Energy:
  + Target of being 100% sustainable by 2050
  + 10 kilowatts (kW) per year of solar energy
  + Biomass and biogas are produced
  + Strict energy policies
* Green Spaces
  + Protected air and soil
  + 44,000 trees were planted
  + Native trees and shrubs were planted