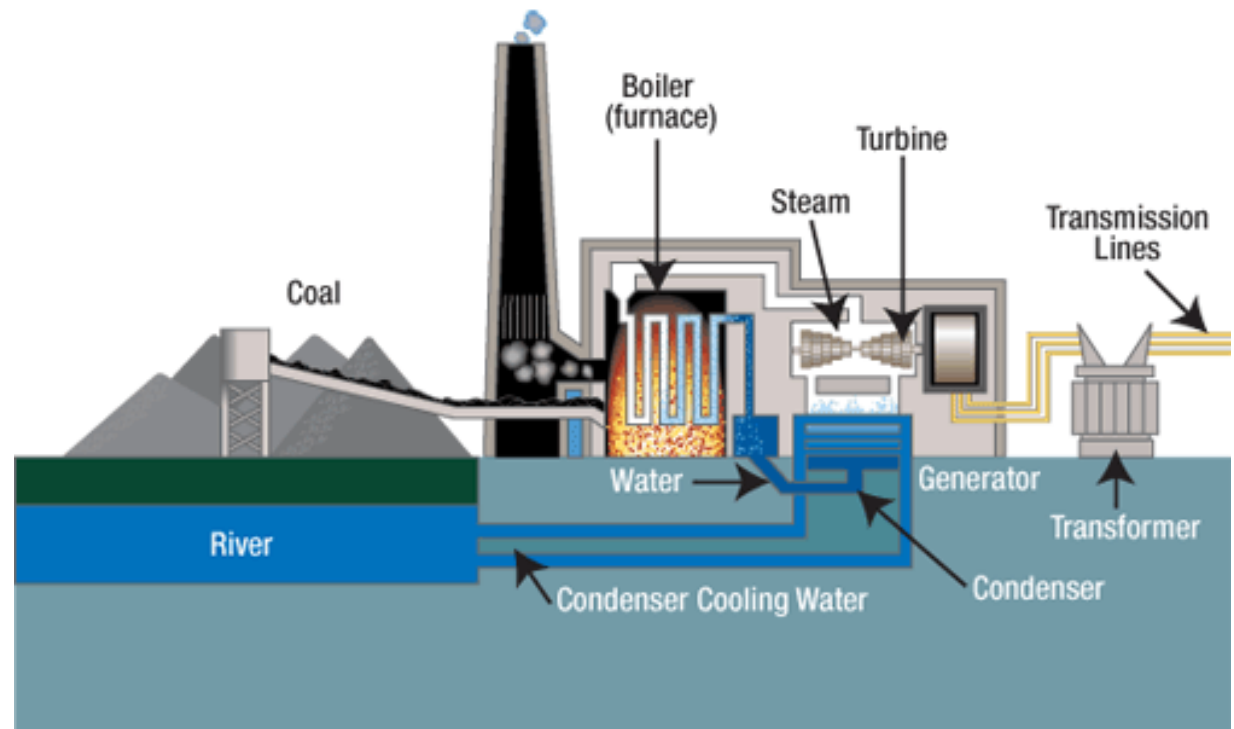


# Applied Thermodynamics

Why it is useful?

# Applications of Thermodynamics

Thermodynamics are used everywhere. The engines of cars are nothing more than thermodynamic cycles, power plants where you transfer heat from some hot source (uranium in nuclear plants, burning coal in coal plants, burning of gas in gas plants, etc) to heat water that will power turbines, on air conditioning, on the refrigerator at your house, in pumps to send water for plants.



# Applications of Thermodynamics

Thermodynamics is also used in designing chemical reactions, for instance the hot/cold packs for injuries...





# Applications of Thermodynamics

Any situation where energy transfer is desirable, thermodynamic principles are applied.

Human bodies also apply the principles of thermodynamics. Human (and most land animal) respiratory systems, skin, mouths, tongues, and other specialized organs and systems of the body apply thermodynamics to regulate and maintain internal temperature in a wide range of ambient conditions.





# Earth weather, global warming

