

# Fuels and Energy

- **Underlying Chemistry...**
  - **Fuels**
  - **Crude oil**
  - **Homologous series**
  - **Alkanes and alkenes, cycloalkanes**
    - Structures, chemical formulae, general formulae
    - Saturated/unsaturated
    - Naming (with branches and double bond position)
    - Isomers
  - **Possibility of “new” fuels**
  - **Alcohols as “new” fuels**
    - Structures, chemical formulae, general formulae, functional group
    - Naming (with branches and functional group position)
  - **Combustion reactions (equations showing reactants and products)**
  - **Calculating energy released by a fuel**
    - Calculating per gramme of fuel burnt