Why do organisms need energy?

- Metabolism – chemical processes
- Movement (inside/outside)
- Active transport
- Production of enzymes/hormones
- Maintaining body temperature

Roles of ATP

- ATP is an intermediate energy substance used to transfer energy.
- Cells maintain just a few seconds supply of ATP
- It is a better immediate energy source than glucose because the energy is more manageable in small quantities.
- The hydrolysis of ATP is a single step reaction

Why is it better than glucose?

- Releases less energy per molecule so released in smaller more manageable quantities
- Hydrolysis to ADP is single reaction so is quick