

- not using something up / not destroying something
- not using it much

Conservation of Energy

Law of Conservation of Energy - energy cannot be **lost or created**, but can only be **transformed or converted** into different forms of energy.

In a **car collision** huge amounts of kinetic energy are converted and transferred to other systems. Energy can be converted to several different types of energy, such as:

1. **Kinetic energy:** the energy of motion (e.g., wheels turning)
2. **Potential energy:** the energy of position with respect to the surface of the Earth (e.g., an object falling from two storeys up will not fall with as much force or acceleration as an object that falls from 16 floors up)
3. **Heat energy:** the energy of molecules on motion (e.g., smoke rising from an engine)
4. **Sound energy:** the disturbance of molecules (e.g., a loud crashing sound)

As the kinetic energy reduces to zero, other forms of energy increase.

