Chapter-10 Concepts of 4R'S

Vitrag .C. Dholakia vitrag.dholakia @darshan.ac.in



Concept 4R'S

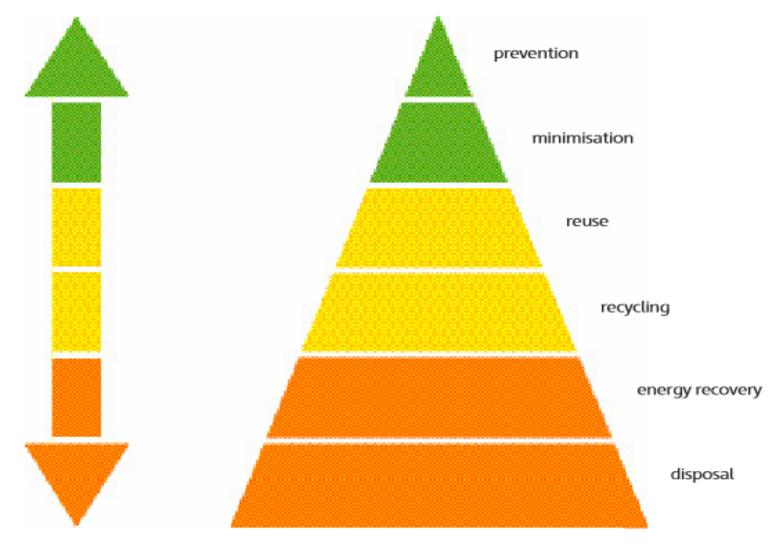
- Reduce
- Reuse
- Recycle
- Recover



Concept 4R'S

• REDUCE is to limit the amount of waste you create in the first place. This includes buying products with less packaging.
REUSE means to use something again that you would normally throw away (eg. Glass jar for food or plastic bags for bin liners.)
RECYCLE means the product goes through a mechanical process to change its form. This is only recommended when reducing and reusing are not possible.

RECOVER is to convert waste into resources (such as electricity, heat, compost and fuel) through thermal and biological means. Resource Recovery occurs after reduce, reuse and recycle have been attempted.



Examples of Waste	4R Best Practice
Concrete	Reuse
Plaster board/Gypsum ·	Recycle
Paper	Recycle
Metal	Recycle
Excavated material	Reuse
Paper	Recycle
Cardboard	Recycle
Hard and soft Plastics	Recycle or Recover
Toners	Recycle
Asphalt	Reuse
Concrete	Reuse or Recycle
Concrete	Reuse
Steel	Recycle
Cabling	Recycle or Reuse
Glass	Recycle
Timber	Reuse or Recycle
Other Materials	Reuse or Recycle
Food and other organic waste	Recycle
Paper	Reuse
Plastic	Reuse
	Concrete Plaster board/Gypsum Paper Metal Excavated material Paper Cardboard Hard and soft Plastics Toners Asphalt Concrete Concrete Steel Cabling Glass Timber Other Materials Food and other organic waste Paper

above termines showing applicability of 41% for different types of waste