



## Gujarat Cleaner Production Centre - ENVIS Centre

(Supported by Ministry of Environment, Forests and Climate Change, Government of India)  
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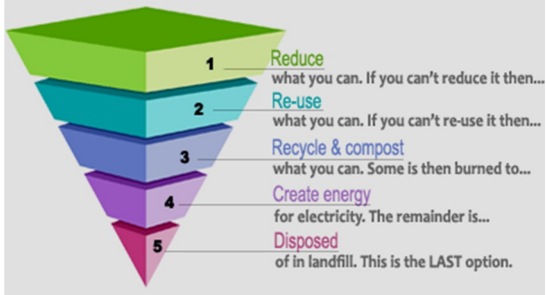
### Industrial Symbiosis - Benefits

#### The Sustainable Business

In nature, there is no waste, because, everything in nature is recycled and every waste stream is a feed stock for another process

Can this be achieved in the industries as well...??? The answer is Certainly Yes!! This can be understood as follows.

#### Industrial Symbiosis at top of Waste Hierarchy

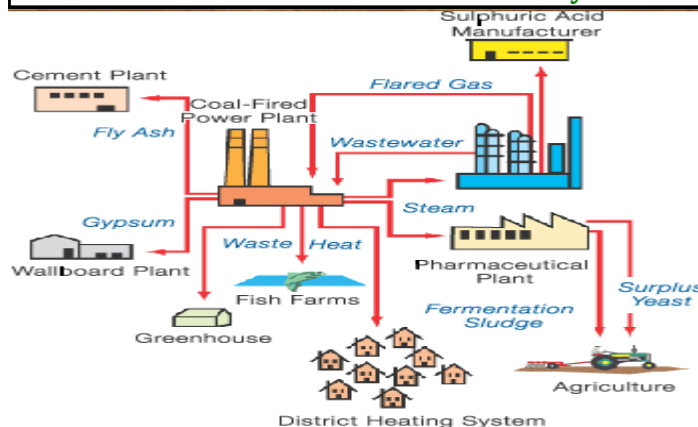


One company's by products or wastes become an important resource to one or several others companies in an industrial symbiosis network. It is possible for each enterprise to increase production without increasing the overall use of energy, water and new raw material.

#### Benefits

- Industries symbiosis creates business opportunities through eco-innovation in product, process and business models
- Industrial symbiosis add value to company operation
- Reduce the raw material and waste disposal cost and Solve the Waste generation problem
- Earn new revenue from residues and by products
- Reduce the environmental pollution and conserve energy
- Divert waste from landfill and reduce carbon emissions

#### The Network of Industries in Industrial Symbiosis



#### The new paradigm.....



- |              |                  |
|--------------|------------------|
| • Waste      | Resource         |
| • Problem    | Opportunity      |
| • Cost       | Source of profit |
| • Management | Innovation       |
| • Treatment  | Adding value     |
| • Internal   | Collaboration    |
| • Sectoral   | Cross sectoral   |
| • Recycling  | Cycling          |

#### An Example

