UPES

STRATEGY FOR SUSTAINABLE BUSINESS

ASSIGNMENT

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Environment-Practice

Define four principle concepts of Design for Environment practices

Design for the Environment (DfE) is a design approach to reduce the overall human health and environmental impact of a product, process or service, where impacts are considered across its life cycle. Different software tools have been developed to assist designers in finding optimized products or processes/services.

Design for Environment practices

Four main concepts fall under the DfE umbrella.

1. Design for environmental processing and manufacturing: Raw material extraction (mining, drilling, etc.), processing (processing reusable materials, metal melting, etc.), and manufacturing are done using materials and processes which are not dangerous to the environment or the employees working on said processes. This includes the minimization of waste and hazardous by-products, air pollution, energy expenditure, and other factors.

2. Design for environmental packaging: Materials used in packaging are environmentally responsible, which can be achieved through the reuse of shipping products, elimination of unnecessary paper and packaging products, efficient use of materials and space, use of recycled and/or recyclable materials.

3. Design for disposal or reuse: The end-of-life of a product is very important because some products emit dangerous chemicals into the air, ground, and water after they are disposed of in a landfill. Planning for the reuse or refurbishing of a product will change the types of materials that would be used, how they could later be disassembled and reused, and the environmental impacts such materials have.

4. Design for energy efficiency: The design of products to reduce overall energy consumption throughout the product's life