

A prototype model for surplus asset management and environmental impact of end-of-life electronic products – Adib M.N. Khan

Global and domestic environmental regulations and laws are forcing many organizations to consider environmental impacts of all functions, business processes and products. Greater concern with environmental issues has lead corporations to embrace environmentally benign and proactive practices, processes, products and technology.

This project presents some issues relevant to environmentally conscious manufacturing practices and policies. Surplus asset management and environmental impact analysis will play an ever increasing role in the efficient operations of a large industrial supply system that can be defined an industrial ecosystem. The issues relevant to this area include global practices and pressures for surplus asset recovery, the needs and requirements for an infrastructure for recovering surplus assets, technology requirements and future research directions. A general strategic framework on how to manage surplus asset management programs and projects by recycling in a manufacturing enterprise is developed and discussed. This thesis work addresses the product life cycle, recycling practices and environmental impact.



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