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Presentation Title:
Green Product Life Cycle Management and Knowledge Based Economy

Abstract:

Green manufacturing pertains to the goal of manufacturing with minimum impact to the environment. The imminent release of ISO 50001 highlights the global commitment to reduction in energy consumption. In product development, product life cycle management is a key driver with strong emphasis on computer-aided-design, simulation, computer-aided-manufacturing, and rapid prototyping. The move in green manufacturing further enhances the product life cycle management operation with additional emphasis on new materials development, new processes and management, and knowledge management. The demand for more in-depth simulation and analysis also implies a quest towards technology-intensive operations. This favors countries moving towards a strong knowledge-based economy. The emerging Asian economies, such as Korea and China, have potential to benefit from this trend.