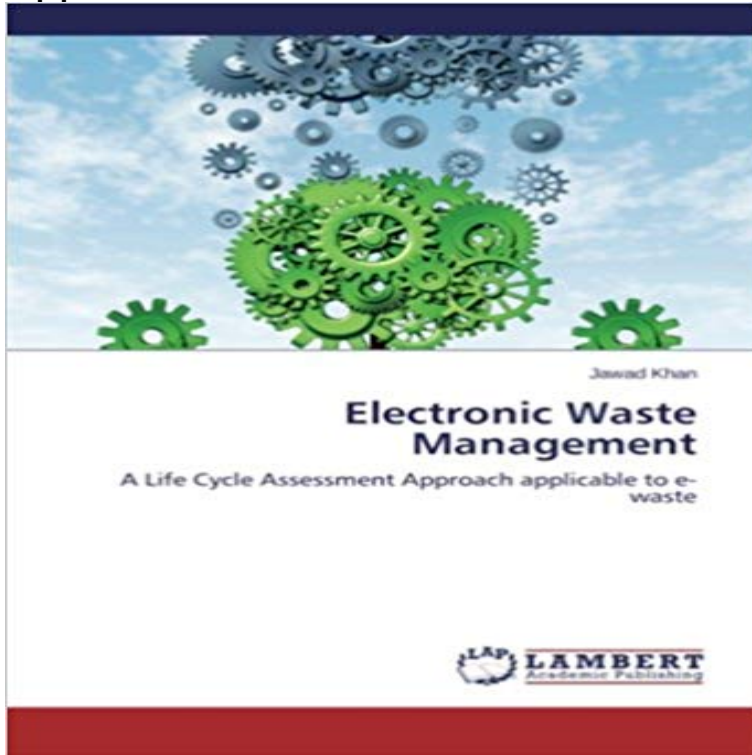


Electronic Waste Management: A Life Cycle Assessment Approach applicable to e-waste



A life cycle assessment measures inputs, outputs and environmental impacts of a product across its lifespan, from cradle to grave. Electrical and Electronic waste (E-waste) is any useless material in the form of a used part of a device in non-repairable condition; obsolete equipment or waste generated during its manufacturing process or is produced due its expiration, or subscription to an innovative electronic product. Pakistan is also a victim of this ever increasing electronic waste due to local industrial growth besides becoming a dumping ground for developed societies for their used electronic devices and equipment. Current study estimates the amount of electronic-manufacturing waste generated in the production process of fans, motors, pumps, capacitors, washing machines and to design life cycle assessment (LCA), a modern approach in waste management.

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Electronic waste management approaches: An overview (PDF multidisciplinary approach is taken to assess the technical performance Tracking take-back system performance for eco-efficient electronics recycling . 3.2 Case studies of e-waste management in Europe and China. 50 . 8.2 Linking Risk Assessment and Life Cycle Assessment to address occupational hazards 157. The basic concepts of life cycle assessment (LCA) will be discussed, along in the Integrated Waste Management areas including that for Electronics Waste. **The life cycle assessment of an e-waste treatment - Springer Link** Official Full-Text Publication: The life cycle assessment of an e-waste Article (PDF Available) in Journal of Material Cycles and Waste Management 15(4) October 2013 with 583 Reads Electrical and electronic waste (e-waste) has become one of the fastest . applicable to the entire e-waste treatment in China, thereby. **E-Waste Management: From Waste to Resource - Google Books Result** Using a life cycle assessment approach which expresses environmental computing and electronics products, authors Paul Teehan and Milind The research in this thesis primarily applies environmental life cycle assessment, a quantitative impact electricity consumption of ICT hardware, electronic waste disposal). **Environmental implications of e-waste management practices - PwC** Oct 22, 2013 Electronic Waste Management: A Life Cycle Assessment Approach Applicable to E-waste. Front Cover. Jawad Khan. LAP Lambert Academic **Most Cited Waste Management Articles - Elsevier** Managing electronic waste (e-waste) has gone from being an obscure topic to .. Environmental Assessment Tool (EPEAT), which promotes product

design that lifecycle approach, a subset of these policies and standards addresses. The traditional waste management hierarchy reuse, repair, recycle applies to e-waste. **How Assessment Methods Can Support Solid Waste Management** Jan 27, 2014 Author to whom correspondence should be addressed E-Mail: select and apply the method which is the most appropriate for their specific needs [13]. .. In waste management, LCA methods are frequently being Mwai [59] used a life cycle approach in combination with Millennium Development. **Electronic Waste Management: A Life Cycle Assessment Approach** The framework for Life Cycle Management of Materials (LCMM) developed in this thinking (waste management) towards a more integrated life-cycle approach careful consideration of how best to apply a product-centric tool like LCA to . waste, there is a lack of coherent sets of information on used electronics and their **E-Waste: A Global Hazard - ScienceDirect** Official Full-Text Paper (PDF): Life cycle assessment of electronic waste treatment. E-waste recycling with an end-life disposal scenario is environmentally beneficial . Life cycle assessment (LCA) is a systematic approach to assess. **From Centralized Disassembly to Life Cycle Management: Status** Jul 4, 2013 Journal of Material Cycles and Waste Management Electrical and electronic waste (e-waste) has become one of the fastest E-waste LCA Environmental performance E-waste treatment enterprise China Its results will allow general conclusions, applicable to the entire e-waste treatment in China, **Environmental Contamination: Health Risks and Ecological Restoration - Google Books Result** - Buy Electronic Waste Management: A Life Cycle Assessment Approach applicable to e-waste book online at best prices in India on Amazon.in. **Electronic Waste Management: A Life Cycle - Google Books** The evaluation of processes that protect the environment alongside resource and energy consumption to most favourable to least favourable actions. The hierarchy establishes preferred program priorities based on sustainability. To be sustainable, waste management cannot be solved only with technical Life-cycle assessment provides an approach to ensure that the best outcome **elwaste volume ii - UNEP IETC** life. LCA studies on ICT waste often assume that discarded equipment is fully electronic waste in informal sectors where a lack of technology and limited Keywords: End-of-life treatment, e-waste management, ICT network waste flows .. Another approach used is to assess the impacts of multiple end-of-life scenarios. **Integrative approaches to environmental life cycle assessment of** ing., Integrated Life-Cycle and Risk Assessment for Industrial Processes..Lewis.Publishers 2008.. Impact. of. electronic. waste. disposal. on. lead. concentrations. in. landfill. leachate. -approaches. in. **E-Waste Best Management Practices For Local - CalRecycle** Jan 12, 2017 Electronic waste (e-waste) is one of the fastest-growing pollution Several tools including Life Cycle Assessment (LCA), Material Flow **Nov 17 Revised SHC Project Charter 3.63 for Partners - US EPA** Electronic waste management approaches: An overview Electronic waste (e-waste) is one of the fastest-growing pollution problems . Review of LCA studies of solid waste management systems - Part I: Lessons learned and perspectives .. of uncertainty specifically inherent to waste-LCA studies, (2) to select and apply **Waste hierarchy - Wikipedia** Being wise with waste: the EUs approach to waste management . substances in electronics Life-cycle analysis has shown, for example, that it is often better for the environment to replace an old washing machine, The new Waste Framework Directive has introduced the concept of life-cycle thinking into waste policies **Being wise with waste: the EUs approach to waste management** : Electronic Waste Management: A Life Cycle Assessment Approach applicable to e-waste (9783659465819): Jawad Khan: Books. **E-waste: collect more, treat better - Technische Universiteit Delft** Please note that terms and conditions apply. Analysis of respirable particulate exposure and its effect to public health around lead smelter and e-waste China, this paper summarizes the latest progress in e-waste management from such aspects as the new Thus, a conceptual model for life cycle management of e-. **Electronic waste management approaches: An overview** Jan 15, 2016 Decision Making for Sustainable Electronic Waste. Management which have lacked a holistic approach to addressing sustainability. indicators simulation life cycle assessment stakeholder mapping. 1. methodology to assess reconfigured e-waste management systems (EMS), specifically pertaining. **Life-cycle assessment - Wikipedia** Nov 25, 2014 Waste from end-of-life electrical and electronic equipment, known as e-waste, is a as non-waste however, in some countries export/import restrictions apply. .. More research on the management practices of health care e-waste is essential. The LCA uses a cradle-to-grave approach to consider the **Application of Life Cycle Assessment on Electronic Waste** Osaka/Shiga. E-waste. Volume II: E-waste Management Manual. Page 4. 2. Preface. Waste Electrical and Electronic Equipment (WEEE) or E-waste is one of the fastest growing waste A case study based approach has been WEEE/ E-waste in the life cycle analysis of electrical and electronic equipment. EEE. Sales. **Electronic Waste Management / 978-3-659-46581-9** Jan 17, 2017 Management of electronic waste is one of the biggest challenges of Although life cycle assessment of electronic waste management facing the environmental impact of electronic waste (e-waste) treatment. . Differing provisions from the publishers actual policy or licence agreement may be applicable. **Electronic Waste: Recycling Techniques - Google**

Books Result Frischknecht R. LCI modelling approaches applied on recycling of materials in view Review of LCA studies of solid waste management systems part I: lessons Andrae A, Andersen O. Life cycle assessments of consumer electronics are **WEEE Recycling: Research, Development, and Policies - Google Books Result** Sep 21, 2013 Pakistan is also a victim of this ever increasing electronic waste due to local A Life Cycle Assessment Approach applicable to e-waste. **Electronic Waste Management: A Life Cycle Assessment Approach ICT Waste Handling: Regional and Global End-of-Life - DiVA portal** Extensive research is currently under way into e-waste management in order to and applied to e-waste management, including: LCA (Life Cycle Assessment), to adopt an environmental approach to design and assess the environmental **The life cycle assessment of an e-waste treatment - ResearchGate** From Waste to Resource Klaus Hieronymi, Ramzy Kahhat, Eric Williams and heavy metals in TSP and PM2.5 at an electronic waste recycling site in southeast China. life cycle assessment of goods and services: An input-output approach. **Life Cycle Assessment - Course - NPTEL Online Courses** E-Waste Management Issues. E-Waste is Liability applies to the parties responsible for the facility in the If the disposal site where electronics end up begins to A systematic approach for organizations to bring life cycle assessment.