E-waste Assessment in Malaysia

Vi Kie Soo, Charles Featherston, Matthew Doolan

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Abstract

The exponential growth of e-waste contributes to a rapid increase in the amount of e-waste contaminants in landfills. In this study, the waste produced from the recycling of mobile phones will be quantified, highlighting the driving factors that affect the amount of waste reaching landfills. A system dynamics approach was adopted to understand the flow of mobile phone e-waste in an e-waste recycling facility in Malaysia. The analysis found that the efficiency of mobile phone PCBs' precious metals recovery is 13.62%. The analysis also demonstrated that public awareness has the greatest impact in reducing contaminants.

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Book Title
» [Re-engineering Manufacturing for Sustainability](#)

Book Subtitle
Proceedings of the 20th CIRP International Conference on Life Cycle Engineering, Singapore 17-19 April, 2013

Pages
pp 389-395

Copyright
2013

DOI
10.1007/978-981-4451-48-2_64

Print ISBN
978-981-4451-47-5

Online ISBN
978-981-4451-48-2

Publisher
Springer Singapore

Copyright Holder
Springer Science + Business Media Singapore

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end-of-life mobile phones
landfill
system dynamics

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Editors
[Andrew Y. C. Nee](#) ⁽²⁾
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Editor Affiliations
2. , Mechanical Engineering, National University of Singapore
3. (SIMTech), Institute of Manufacturing Technology
4. , Mechanical Engineering, National University of Singapore

Authors
[Vi Kie Soo](#) ⁽¹⁾
[Charles Featherston](#) ⁽¹⁾
[Matthew Doolan](#) ⁽¹⁾

Author Affiliations
1. College of Engineering and Computer Science, The Australian National University, Canberra, Australia

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