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Mini Review Effective Management of e-waste and Sustainable Development

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ABSTRACT

It is unavoidable to deny that we are currently living in a world where technology plays a important role of our lives, and that this technology is very quickly transforming with the rapid development of new electronic products with generation of non-eco-friendly e- waste. The influence of electronicwaste materials, over public health and the environment by entering in the form of toxicants and exposing the population to harmful chemicals, in the form of polycyclic aromatic hydrocarbons and persistent organic pollutants are focused in this study. The complexity of electronic wastes, which frequent requires special approach in disposal and developed techniques in recycling for sustainable development. The key component to the ecological cycle is sustainable development that keeps our earth undamaged. Chemical toxicants, like As, Ba, Co, Cu, Lithium, Mercury, from e-waste can easily record into the ecosystem through multiple routes, where they can get pass to the food chain leading to indirect exposure. The extent to which these contaminations contribute to unfavourable health effects is difficult to resolve. However, the harmful effects on health of communities living in areas where casual recycling takes place are noted to be more considerable. Now the new approaches have been developed for sustainable development of environmental issues with the support of green chemistry, in which society, environment and economy are balanced in scientific way. The systematic approach for effective disposal, recycle of e- waste and eco-friendly production of electronic items are discussed and reviewed.

Keywords: e-waste, Health effect, Toxicants, Sustainable Approach, Recycle Techniques.