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“CLEANER PRODUCTION INITIATIVES AND CHALLENGES FOR A SUSTAINABLE WORLD”

Municipal Urban Parks of São Paulo: Environmental Accountability of eMergy

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Abstract

São Paulo city has been investing on the deployment of green areas to improve people life quality. In this regard, the Secretary of the Green and the Environment of São Paulo has increased vegetation coverage through a program of afforestation and creation of new urban parks. The establishment of linear parks along the courses of rivers and streams also takes part of this guideline. This article uses the environmental accountability on emergy for the evaluation of two parks on the east zone of São Paulo: the Linear Park Tiquatira and the Park Vila Silvia. The energy flow and materials in maintenance and use on each one of these parks are accounted. The total energy of Linear Park Tiquatira é $1,52 \times 10^{17}$ seJ/m², being 57% related to renewable natural resources and 43% from the economy. The total energy of urban park Vila Silvia is $1,68 \times 10^{16}$ seJ/m², being 9% of renewable natural resources and 91% from the economy.

Keywords: *Emergy, environmental accountability, environmental sustentability, parks.*
