

**MODELING WASTE-TIRE MANAGEMENT WITH EMPHASIS ON
ENERGY-RECOVERY LOGISTICS**

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ABSTRACT

Scrap tire quantities show an increasing tendency during last years. This special type of solid waste has been an object of study for municipalities, communities and the energy-intensive private sector around the world, as a result of recent legislative tendencies forbidding wire tire disposal at sanitary landfills, as well as of the significant heating value involved. This paper presents specific results of a related integrated management study, conducted for the Thessaloniki Urban Area. A mixed-integer programming model is formulated for the purpose of locating pre-treating facilities for scrap tires. Scenarios are thus compiled and optimal solutions are calculated.