

INTEGRATED SYSTEM FOR OPTIMIZED DATA COLLECTION AND PROCESSING OF END OF LIFE TIRES: CASE OF GREECE

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ABSTRACT

The last decade, there is a continuously increasing number of tires that are discarded as reaching their end-of life cycle. The methods utilized for treating the used and end-of-life tires, lean towards more environmental friendly solutions such as recycling and energy utilization. However, even these treatment options do not have a zero carbon footprint, and therefore in order to completely assess and control the environmental impact of these options a precise record of many parameters needs to be done. As a matter of fact, there have been many works that present the environmental impact of each of the treatment options. For that reason an integrated system was designed and built, with the scope of optimized data collection of tires collected in the appropriate collection points. What is more, the described system will record the amounts and types of tyres gathered, the treatment options followed and the final products quantities and qualities.