

## عنوان مقاله:

(Investigating the Energy Consumption and Environmental Impact for MSW Transportation (Rasht city

## محل انتشار:

دوازدهمین همایش بین المللی انرژی (سال: 1397)

تعداد صفحات اصل مقاله: 7

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## خلاصه مقاله:

With increasing population in the world, the amount of municipal solid waste is increasing in daily. With the increase of waste, the need for its management has become more important. Transportation is one of the most important part of waste management, which plays an important role in terms of energy consumption and pollution. In this study, waste transportation in Rasht city of Guilan province has been studied. Transportation of waste from downtown to Landfill, which is 30 kilometers away from the city center, is considered and the amount of energy consumed and the amount of released emissions from this process are discussed. For the energy flow, energy consumption, renewable and non-renewable energy, direct and indirect energy, as well as for the environmental part, the effect of 11 impact categories was discussed. The results of the LCA are obtained using the SimaPro software, CML-IA baseline1 V3.04 / World 2000. Results show that the total energy consumption for the transportation part is 36/57 GJ, and diesel fuel has the largest share in energy consumption and Machinery has the second share. Among the various categories, global warming is one of the most important factors that will have a significant impact on the environment, the value of this category is Calculated 2360/57 kg CO<sub>2</sub> eq. that the most influential factor in global warming is direct emissions (from transportation).

## کلمات کلیدی:

municipal solid waste, Transportation, Energy consumption, Environmental assessment

## لینک ثابت مقاله در پایگاه سیویلیکا:

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