

عنوان مقاله:

Greenhouse Gas Emission Estimation by Life Cycle Assessment Approach in Petrochemical Industry

محل انتشار:

چهارمین کنگره بین المللی توسعه کشاورزی، منابع طبیعی، محیط زیست و گردشگری ایران (سال: 1398)

تعداد صفحات اصل مقاله: 9

نویسندگان:

A Mir-Mohammad Tabar - oil and gas economics student, Petroleum University of Technology

S Erfanifakhr - oil and gas economics student, Petroleum University of Technology

خلاصه مقاله:

Emissions of greenhouse gases, as one of the human community concerns, can be accounted for an effective component of economy and politics around world. The petrochemical industry is characterized by the world's largest consumer of energy, which accounts for 10% of energy consumption and 18% of global greenhouse gas emissions. The objective of this study is to estimate the greenhouse gas emissions of CO₂, CH₄ and N₂O over the life cycle of petrochemical products. The study applies Gate to Gate Life Cycle Assessment as a method to calculate the greenhouse gas emissions. The study estimates the volume of greenhouse gas emissions through considering the life cycles of petrochemical complex, and to this end, the IPCC 2006 software as well as petrochemical emission factors have been used. The empirical findings and calculations reveal that, the total greenhouse gas emissions generated by the combustion process and the production is about 287.722 gig grams of carbon dioxide equivalent.

کلمات کلیدی:

Life Cycle Assessment, Greenhouse Gas Emissions, Petrochemical Industry, Intergovernmental Panel on Climate Change

لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/973103>

