

عنوان مقاله:

Emission evaluation of CO2 and CH4 gases in the selected gas pressure booster station in the Bangestan field of the National Iranian Oil Company

محل انتشار:

مجله مديريت ومهندسی بهداشت محيط, دوره 1, شماره 1 (سال: 1393)

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خلاصه مقاله:

Background: Iran is located in the seventh rank in terms of CO2 emissions resulting from the fuel combustion in the world. Gas compressor booster stations, due to the several sources of contaminants, are causing the release of large amounts of CO2 and CH4, which will cause climate change; therefore, estimating the emissions of the gases from oil and gas, different processing units are necessary.Methods: In this study, the emissions factor method, provided by various organizations, was used for determining emissions of CO2 and CH4 from different sources.Results: According to the results obtained, the total amount of CO2 emissions in selected units is from the selected unit and is a significant contribution to the CH4 emissions, so that the whole amount of CO2 emissions is equal to 7739.027 tons per day and the total amount of CH4 emissions is 4 tons per day.Conclusion: Burner has the highest emissions of CH4, among the exit gas sources, belong to the process of removing water. Among the exit gas sources-compressors maintenance activities the highest emissions belong to CH4. The amount of CO2 emissions from indirect sources, including electrical equipment in the studied units, are from natural gas fuel which are much more than those from fuel oils for burning. CH4 gas from volatile sources in the gas compressors have the highest emissions compared to other .sources

کلمات کلیدی:

Greenhouse gases, Emission factor, Gas compressor booster station of Bangestan

لینک ثابت مقاله در پایگاه سیویلیکا:





