



# Will we need oil in 2060?

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## Opinion

Since long time ago, in the early 1840 at the end of the Industrial revolution, we found that oil was a very useful energy vector. Now, we use items for our life that were produced with some energy transformation. In the near future, perhaps 2020, the energy transformation will not change a lot. Data from International Energy Agency ([iea.org](http://iea.org)) show great energy dependence from coal, natural gas and oil.

Registered anomaly temperature since 1880 to 2010 show a tendency: there is a climate change. Of course the human activities are the cause for this phenomenon. Even if we replace all process with another fuel into combustion, the  $\text{CO}_2$  will be part of the stoichiometry reaction and this will never diminish while combustion will be.

In fact, all renewable energy processes use devices that came from processes with oil reaction, then in the present day, global

energy needs oil for humanity activities. But, in the future? In 2060: we will need oil? Yes. We will need about a 99EJ ( $99 \times 10^{18}$ J) in 2060 from Energy Technology Perspectives 2017 report edited by International Energy Agency. This is a 54.39% of the transformed oil in 2014. This value implies that we need to work in most efficiency transformation of the fuel. Not only of oil fuel, but all transformations must be improved.

At 2060 we need 35% of renewable energy in our world energy transformation and 38% of efficiency energy transformation in all levels: refineries, oil products, electricity and power or co-generation plants. If we do not do an effort to develop now the new efficient process in petrochemical science we will not provide the energy that we will need in the future. All (renewable and conventional) energy processes need to be analyzed, evaluated and integrated for the new world. Oil fuels do exist and this helps us to create the new balanced energy future energy system.



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