

# The advantages of Bioethanol for the Environment

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In the 21st century, global interest in the development of biofuels has increased due to increased concern about the development of renewable energy sources, which will allow us to move forward in overcoming the current paradigm based on fossil fuels.[1] Expanding its performance in the world, it will contribute to the non-development of threats posed by climate change and enable better security of energy supply on a global scale. One of the best ways to meet this goal is to replace fossil fuels with ethanol, also called ethyl alcohol [2]. For production, the simplest way to achieve this is through the sugar molecules found in vegetables such as sugarcane, corn and wheat. The benefits of replacing fossil fuels with ethanol are of great importance for sustainable development, one of the benefits being the reduction of pollutants such as carbon dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>) and nitrous oxide (NO<sub>2</sub>) into the atmosphere. [3]

[1] Goldemberg, José. Ethanol for a Sustainable Energy Future. 2007. **DOI:** 10.1126/science.1137013

[2] Alexander E. Farrell, Richard J. Plevin, Brian T. Turner, Andrew D. Jones,1 Michael O'Hare, Daniel M. Kammen. Ethanol Can Contribute to Energy and Environmental Goals. **DOI:** 10.1126/science.1121416.

[3] Jason Hill\*, Erik Nelson, David Tilman, Stephen Polasky, and Douglas Tiffany. 2006. DOI: 10.1073/pnas.0604600103 ·