



## Alternative Fuels for Agriculture Sustainability: Carbon Footprint and Economic Feasibility

Agriculture is one of the major sectors that are highly dependent on conventional fuels in numerous ways, such as transportation, electricity, among others.

Different generations of biofuels are being produced, namely, 1st-4th generation biofuels, which are produced by edible, non-edible, macro- or microalgae, and genetically modified (GM) microbes, respectively. As agricultural activities differ widely across the world, guidelines for selecting boundaries are essential.

Agricultural carbon footprint studies help inform sustainable farming practices and contribute to reducing soil-borne greenhouse gas emissions. Uniform Green House Gases estimation techniques are urgently needed. In addition, there are no specialized emission factors available for key agricultural inputs at the sector or region level.

This journal sponsored the APC of “Alternative Fuels for Agriculture Sustainability: Carbon Footprint and Economic Feasibility”



*AgriEngineering*

## Impact of SDG 2 in MDPI publications

1029 papers mention “SDG 2”, “Sustainable Development 2” or “no hunger” in MDPI publications between 2015–2023.

By extending the search to No hunger-related keywords, we find 2233 papers were published in the same period in MDPI.



Addressing food insecurity encompasses various interconnected aspects. Agriculture and land utilization significantly contribute to food production and resource management, but factors like poverty, high food prices, and crises also influence food security.

Researchers have published their findings that evaluate practices that lead to hunger and strategies for combating food insecurity and malnutrition.

### Here are some publications of interest:

Food Safety Practices and Stunting among School-Age Children — An Observational Study Finding from an Urban Slum of Bangladesh — funded by the Bill and Melinda Gates Foundation ([mdpi.com/1660-4601/19/13/8044](https://mdpi.com/1660-4601/19/13/8044))

The California Nutrition Incentive Program: Participants’ Perceptions and Associations with Produce Purchases, Consumption, and Food Security ([mdpi.com/2072-6643/14/13/2699](https://mdpi.com/2072-6643/14/13/2699))

Agronomic Biofortification of Zinc in Rice for Diminishing Malnutrition in South Asia — funded by the Bill and Melinda Gates Foundation ([mdpi.com/2071-1050/14/13/7747](https://mdpi.com/2071-1050/14/13/7747))

Analysis of Land Use and Land Cover Changes through the Lens of SDGs in Semarang, Indonesia ([mdpi.com/2071-1050/14/13/7592](https://mdpi.com/2071-1050/14/13/7592))