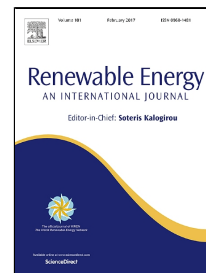


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Beyond carbon and energy the challenge in setting guidelines for life cycle assessment of biofuel systems

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**Highlights:**

1. More than one functional unit should be used whenever possible
2. System boundaries should be expanded to include co- and by-products.
3. Climate, acidification, eutrophication, land use, and energy are the key indicators
4. Existing frameworks for biofuels LCA focus on greenhouse gases emissions

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