

BON On the whole. Mainers and other New England respondents are uncertain about the attributes of The Bangor Daily News uses your location to provide local content and weather. Learn more stand that the attributes of the standard standar

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 One of the key environmental attributes that has been touted for ethanol is the production of less greenhouse gas pollution. Only 25 percent of Mainers thought that ethanol produces less pollution, while 37 percent expressed uncertainty. In reality, compared with gasoline, corn-based ethanol may produce up to 19 percent less greenhouse gases, and cellulosic ethanol is estimated to produce an 86 percent reduction

Perceptions about ethanol appear relatively negative or uncertain. However, many people seemingly have not formed a strong opinion, so attitudes still appear to be malleable. Hence, biofuel promoters and detractors have the opportunity to influence individuals' opinions through information and marketing programs.

We also presented 10 potential impacts of cellulosic ethanol production and asked Mainers to rate the importance of each; the levels of importance seemed to fall into three tiers. The highest tier of importance included increasing local employment and decreasing fuel imports. Mainers also placed changes to forest health in this highest tier of importance.

In the middle tier, Mainers were concerned about how biofuel harvests may affect the prices of other wood fuels — primarily firewood and wood pellets — and harvest intensity.

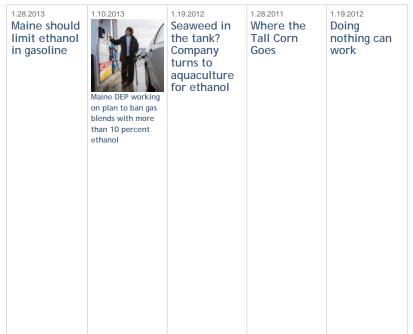
Cellulosic ethanol is touted as producing lower global-warming gases relative to other transportation fuels. However, Mainers found this to be a relatively unimportant benefit. In fact, interest in global-warming issues was consistently low throughout the survey, indicating that messages about cellulosic ethanol's ability to decrease global warming may be of interest to a limited audience.

Potential impacts on the forest environment are important. Given the importance of forest impacts to Mainers, promoters of cellulosic ethanol should make sure harvesting practices are environmentally sound and sustainable and that this is well communicated to the public.

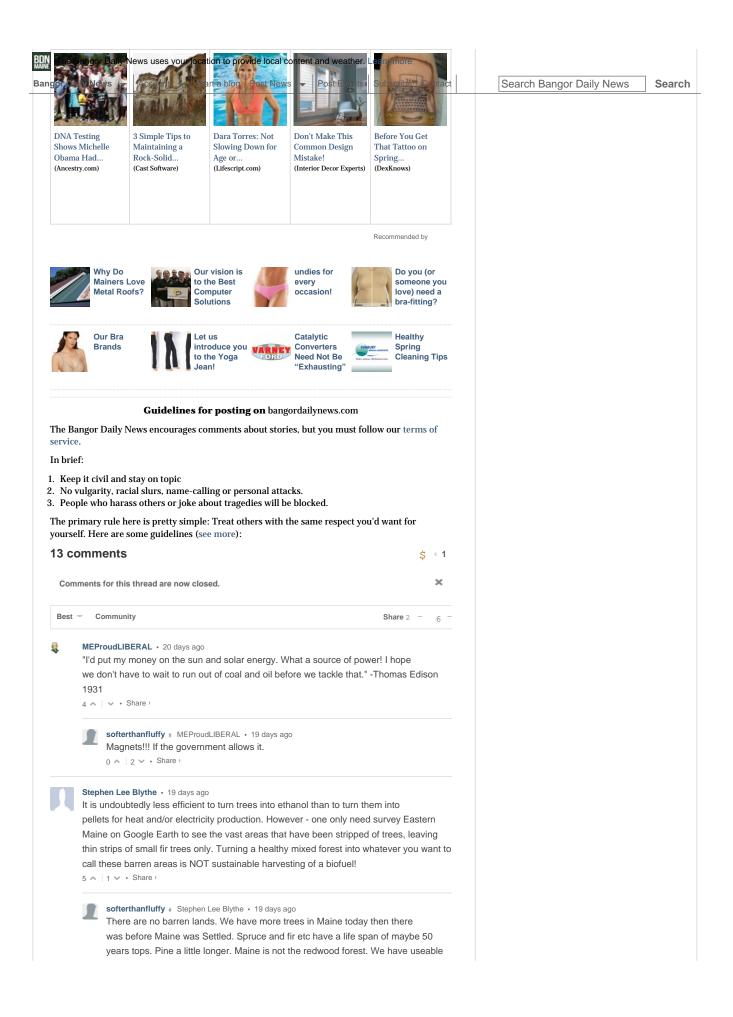
This work provides empirical evidence that consumers do not hold identical — or even similar — knowledge and preferences when it comes to a new energy technology, such as wood-based biofuel. We have found that consumers judge the value of biofuels by using their prior knowledge of ethanol sources, their perceptions of the attributes of different fuels and their interest in the ways that cellulosic ethanol might mitigate the impacts of fossil fuels. Interestingly, consumers in the Northeast focus more on the economic, environmental and national security attributes of this type of fuel than on global warming and other environmental concerns.

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