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## **Online Bioenergy Education for Everyone - Bioenergy on YouTube**

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### Abstract

The AHB Education Project at Oregon State University has made bioenergy education widely available online, in the form of a YouTube Channel with 25 "mini-lectures" ranging from 10-15 minutes apiece. Our objectives were to expand the bioenergy community and support K-12, community college, and industry education and professional development by providing a reliable and unbiased source of fundamental bioenergy information freely available to anyone with access to the internet. The channel went online in August 2015 and since this time has accrued over 120 hours in total watch time through well over 2,000 total views from users in all 50 states and over 100 different countries. It is already the most popular biofuels-bioenergy introduction resource on YouTube and continues to improve. Lectures are based on an online course offered through Oregon State University, and follow a consistent format, incorporating history and context, energy and bioenergy fundamentals, the industry, and results. Feedback from seven different bioenergy industry associations was positive and will be incorporated alongside user and student feedback in future updates. From an educational research perspective, YouTube's user analytics and statistics are providing an invaluable level of direction regarding specific bioenergy topic interest areas, regional interests, and user demographics, which can be used to improve or direct future educational efforts. YouTube is being successfully leveraged as an easy, fast open-source library of bioenergy teaching and learning content, and also as a common node to link and direct users to additional resources.