

Life Cycle Assessment for Biofuels

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A presentation based on life cycle assessment (LCA) for biofuels is given. The presentation focuses on energy and biofuels, interesting environmental aspects of biofuels, and how to do a life cycle assessment with some examples related to biofuel systems. The stages of a (biofuel) LCA are described, as are steps of LCA practice: goal and scope, inventory, impact assessment, and interpretation. Methods to complete these steps are described, with suggestions for items to consider in application to LCA and for biofuels in particular. Aspects of the expansion of biofuels in the U.S. are described, along with the potential for step change effects in other related systems.