Project 001

Assessment of energy crops for SAF in Hawaii (and the tropics)

University of Hawaii

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Cost Share Partner: University of Hawaii, State of Hawaii

Objective:

Assess the potential for production of oil seed and fiber crops in Hawaii under constraints of land use zoning, mean annual rainfall, mean annual temperature, land slope, current land use, and future food production

Project Benefits:

Provide estimates of production potential across Hawaii's varied agroecological zones

Targets options to revitalize Hawaii's rural economy and underutilized agricultural land vacated by sugarcane

Provides data needed for integrated assessments with urban feedstocks

Research Approach:

Test EcoCrop[1] model capability (calibrate) by predicting former sugarcane production areas

Use the EcoCrop model to assess potential of 12 oil seed and fiber producing crops

Identify coproducts from agricultural and processing residues

[1]http://www.fao.org/land-water/land/land-governance/land-resources-planning-toolbox/category/details/en/c/1027491/

Major Accomplishments (to date):

Completed model calibration(historic sugarcane land)

Developed coproduct processing information

Completed assessment of feedstock, intermediates, and SAF production potential for candidate crops

Future Work / Schedule:

Assess processing options and locations for planted areas identified in production scenarios

Estimate farmgate costs of production for candidate crops

Identify potential opportunities to integrate agricultural and urban feedstock supplies

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