Plan Overview

A Data Management Plan created using DMPTool-Stage

Title: Rotary Inclined Gasifier

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Affiliation: Caribou Biofuels, Inc.

Principal Investigator: Kieran Mitchell

Data Manager: Kieran Mitchell

Project Administrator: Kieran Mitchell

Funder: National Science Foundation (nsf.gov)

Funding opportunity number: Phase I proposal 2052390

Grant: N/A

Template: NSF-ENG: Engineering

Project abstract:

A Rotary Inclined Gasifier is an innovative gasifier that can be deployed at Universities and larger buildings. It can convert the trash and or biomass into a fuel to generate electricity and heat, dispose of the trash, earn carbon credits with minuscule emissions.

Start date: 12-31-2020

End date: 05-30-2021

Last modified: 09-29-2020

Copyright information:

relationship to, your project or proposal

Rotary Inclined Gasifier

This program will analyze the types of municipal waste that is generated at a State University of New York Campus. The phase 1 will gather samples of the different types of waste and process these waste streams in the prototype gasifier located at The State University of New York (SUNY), Cobleskill Campus. The result will be the type and quantity of fuels generated and the Biochar that is remaining. The Data generated will quantify the quality and the characters of the fuel generated. This data will be reported on excel spread sheets. A financial analysis will also be performed. This data will be in a excel spreadsheet and will document the savings compared to the current trash disposal program and the reduction in fuel costs to generate electricity and heat on the campus. The process of the study will be documented in a word. The Engineers at Caribou Biofuels and the Engineers at SUNY will maintain their data and, in addition consolidate the data into a Google Doc's spreadsheet shared by the team. David Connolly will be the technical lead for Caribou Biofuels and David Waage will be the technical lead for SUNY Cobleskill. Kieran Mitchell will be the administrator and lead for the the financial analysist of the project. In the event that there is a transition in the roles and responsibilities, all data will be transferred and managed by Kieran Mitchell, CEO of Caribou Biofuels or his designate.

Experimental data and financial analysis will be performed on Excel or Google doc's. Narratives and procedures will be recorded on word and google docs. The consolidated narratives will be recorded on google docs.

Kieran Mitchell, CEO of Caribou Biofuels will be the lead manager of the data for the NSF study. The conclusions and the data in a table format will be available on the Caribou Biofuels website, https://cariboubiofuels.com The maintenance of Caribou Biofuels is continuously maintained and the results and data from the NSF grant will be available for a minimum of three years. The data and narratives that are generated are for public access. Trade secretes on the exact mechanical workings of the gasifier will be restricted and will be approved by Caribou Biofuels, before decimation. The intellectual property of the gasifier is owned and maintained by the State University of New York Research Foundation with an exclusive license to Caribou Biofuels.

The engineering, scientific and financial analysis of the gasifier analysis at SUNY is free to share and will be published on the Caribou Biofuels website. The condition regarding the use of the data will be published on the website along with the data.

The data will be archived on the computer of Kieran Mitchell at Caribou Biofuels, on a sharable google docs debased storage and available on the Caribou Biofuels website. An additional copy will be retained on the computer of Caribou Biofuels lead engineer, David Connolly.
