

SARGCOOP

WORK PACKAGE : CARIBBEAN SARGASSUM FORUM

07 APRIL 2022 WEBINAR :
 « COLLECTION AND VALORIZATION OF SARGASSUM IN THE
 CARIBBEAN : ISSUES AND PROSPECTS »

Dr Legena Henry, University of the West Indies, Cave Hill, Barbados





Experimental Evidence on the Use of Biomethane from Rum Distillery Waste and Sargassum Seaweed as an Alternative Fuel for Transportation in Barbados

May 2021, Felipe Herrera Library (Inter-American Development Bank)
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Dr Legena Henry, PhD
Mechanical Engineer
(BSc, Howard; MSc, MIT; PhD, UWI)

Lecturer, Renewable Energy
Department of Computer Science, Mathematics & Physics
Faculty of Science and Technology
The University of the West Indies
CAVE HILL CAMPUS
Barbados



Photo by Thor Tryggvason on Unsplash



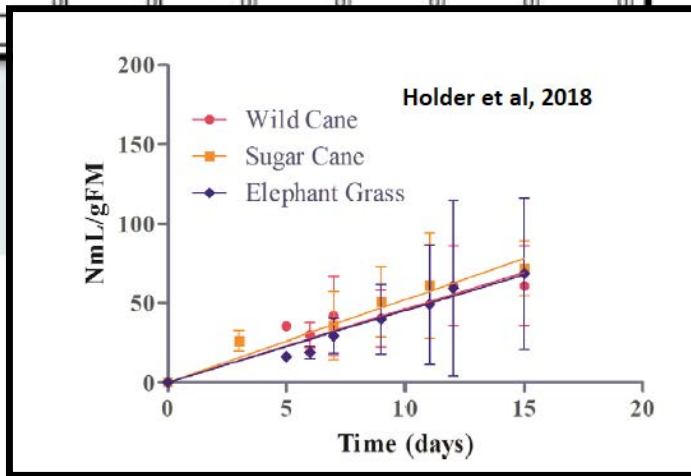
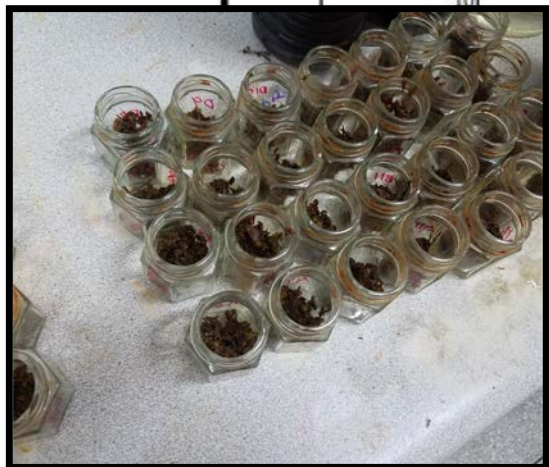
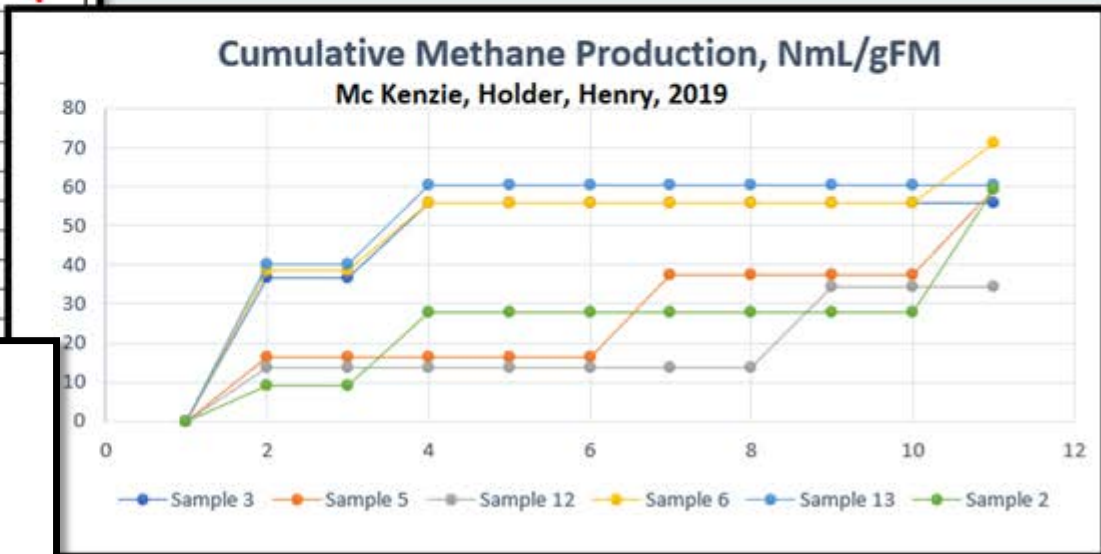
Co authors: Henry Legena, Brittney McKenzie, Aria Goodridge, Karyl Pivott, Joshua Austin, Kristen Lynch, Shamika Spencer, Felicia Cox, Nikolai Holder, Renique Murray, Veronica R.; Prado, Pauline Ravillard
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Our Research Numbers

		controls			SAMPLE					
		1	9	10	2	3	5	12	6	13
	Sargassum	✓					✓	✓	✓	✓
	Salt water pre-treatment	✓					✓		✓	
	fresh water pretreatment							✓		✓
	Mt Gay wastewater		✓		✓		✓	✓		
	FourSquare Wastewater		✓	✓		✓			✓	✓
	NH Effluent	✓			✓	✓	✓	✓	✓	
Day Number	1	0	0	0	0	0	0	0	0	0
	2	0	0	0	9	37	16	14	39	
	3	0	0	0	0	0	0	0	0	
	4	0	0	0	19	19	0	0	18	
	5	0	0	0	0	0	0	0	0	
	6	0	0	0	0	0	0	0	0	
	7	0	0	0	0	0	21	0	0	
	8	0	0	0	0	0	0	0	0	
	9	0	0	0	0	0	0	21	0	
	10	0	0	0	0	0	0	0	0	





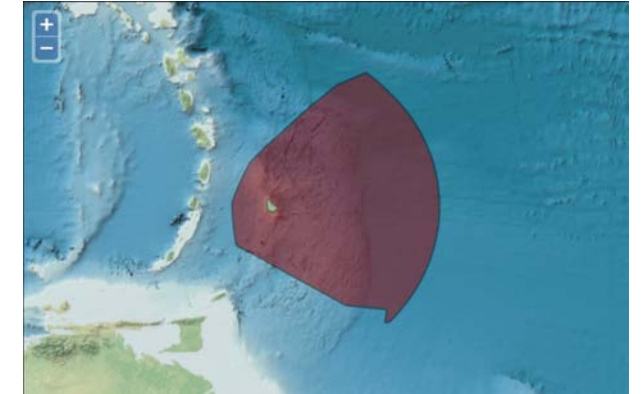
Our Research Numbers

Target market: 134,600 registered vehicles need to be shifted away from fossil fuels in 8.5 years – 80% of these: biofuels

From our experimental results, we calculate and project that one year of transportation in Barbados requires:

- 685,304,000 litres of high COD rum distillery waste
- 105,759 tons of fresh sargassum in a year.

In 2017, 20, 000, 000 tons of Sargassum seaweed were estimated to inundate the Caribbean Sea and the central Atlantic Ocean presenting evidence that more than sufficient volumes of fresh sargassum are available in Barbados' EEZ



Rum & Sargassum Inc.

