



Maine Technology Institute  
8 Venture Avenue  
Brunswick Landing  
Brunswick, ME 04011

Dear Maine Technology Institute,

EarthShift has performed several Life Cycle Assessments (LCAs) for Biofine, with the first work completed in 2009. At that time, Biofine was applying for DOE funding which required a green house gas assessment. EarthShift provided us with the assessment as well as insights into where our impacts were occurring. We were able to use that information to improve the process over time. The company has provided us several more assessments, helping us become a preferred solution for the National OilHeat Research Organization and is helping us benefit from our char production.

The study supporting our heating oil solution can be found on the EarthShift website via the following web address:

[https://earthshiftglobal.com/client\\_media/files/pdf/Final%20Report\\_Greenhouse%20Gas%20Analysis%20of%20Ethyl%20Levulinate\\_single%20product.pdf](https://earthshiftglobal.com/client_media/files/pdf/Final%20Report_Greenhouse%20Gas%20Analysis%20of%20Ethyl%20Levulinate_single%20product.pdf)

In each case, EarthShift has worked as a partner to Biofine, supporting both our external needs as well as providing guidance on impact reduction scenarios. As a low carbon solution for the future, this work has been crucial for our success.

Leveraging funds to support development of LCAs will become increasingly important as a way to validate the claims of bio-based companies. While a company will benefit from leveraged funds, MTI will benefit from the ability to fully evaluate critical aspects of the company's business case.

Sincerely,

A handwritten signature in black ink, appearing to read 'Mike Cassata', is positioned above the printed name.

Mike Cassata  
Chief Development Officer  
Biofine Developments Northeast