

Accepted Manuscript

Energy and greenhouse gas life cycle assessment and cost analysis of aerobic and anaerobic membrane bioreactor systems: Influence of scale, population density, climate, and methane recovery

Sarah Cashman, Xin (Cissy) Ma, Janet Mosley, Jay Garland, Brian Crone, Xiaobo Xue

PII: S0960-8524(18)30074-9
DOI: <https://doi.org/10.1016/j.biortech.2018.01.060>
Reference: BITE 19417

To appear in: *Bioresource Technology*

Received Date: 7 November 2017
Revised Date: 10 January 2018
Accepted Date: 11 January 2018

Please cite this article as: Cashman, S., (Cissy) Ma, X., Mosley, J., Garland, J., Crone, B., Xue, X., Energy and greenhouse gas life cycle assessment and cost analysis of aerobic and anaerobic membrane bioreactor systems: Influence of scale, population density, climate, and methane recovery, *Bioresource Technology* (2018), doi: <https://doi.org/10.1016/j.biortech.2018.01.060>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Energy and greenhouse gas life cycle assessment and cost analysis of aerobic and anaerobic membrane bioreactor systems: Influence of scale, population density, climate, and methane recovery

Sarah Cashman[†], Xin (Cissy) Ma[§], Janet Mosley[†], Jay Garland^{†*}, Brian Crone^{||}, Xiaobo Xue^Δ

[†]Eastern Research Group, Inc.

[§]United States Environmental Protection Agency
National Risk Management Research Laboratory

[†]United States Environmental Protection Agency
National Exposure Research Laboratory

^{||}Department of Biomedical Chemical, and Environmental Engineering, University of Cincinnati

^ΔDepartment of Environmental Health Sciences, State University of New York at Albany

Corresponding Author

* Tel: +1 513 569 7334; fax: +1 513 569 7464; email: garland.jay@epa.gov

Contribution: All authors have reviewed and approved the final article.

Funding Disclaimer

The United States Environmental Protection Agency through its Office of Research and Development funded and managed the research described here. It has been subjected to

Download English Version:

<https://daneshyari.com/en/article/7068173>

Download Persian Version:

<https://daneshyari.com/article/7068173>

[Daneshyari.com](https://daneshyari.com)