

# Journal of Industrial Ecology

## Decision Letter (15-JIE-4918.R1)

**From:** m.lenzen@physics.usyd.edu.au  
**To:** f\_afrinaldi@yahoo.com, afrinaldiferi@gmail.com  
**CC:**

**Subject:** Journal of Industrial Ecology - Decision on Manuscript ID 15-JIE-4918.R1

**Body:** 12-Oct-2015

Dear Mr. FERI AFRINALDI:

It is a pleasure to inform you that your revised manuscript entitled "Loss and Benefit Caused by a Diesel Engine: From the Perspective of Human Health" has been formally accepted for publication in the Journal of Industrial Ecology. Note referee 1 has one very minor comment regarding style.

NEXT STEPS: Contact with JIE editorial office at Yale

The JIE editorial office at Yale will be in contact with you soon to attend to remaining details regarding clarity, formatting, graphics, copyright, or resolution of minor substantive issues. There will be a series of exchanges between you and the JIE editorial office to address these details in the manuscript and to make the style appropriate for the Journal. Please note that because the Journal of Industrial Ecology is read by managers, policymakers, and scholars and researchers in a wide variety of disciplines, there must be special attention to quality of writing and style. Please be patient with the extra scrutiny. It does not reflect on the quality of your writing or thinking, but on our need to be sure that your ideas effectively reach our diverse audience.

NEXT STEPS: Contact with publisher

The manuscript will then be sent to the publisher at which point it will be copyedited and typeset. You will be asked to review the manuscript in the form of page proofs for accuracy at that point. Once the page proofs are corrected, a portable document format (PDF) version of the paper will be posted on the Journal's website in the Early View (<http://onlinelibrary.wiley.com/journal/10.1111/%28ISSN%291530-9290/earlyview>) section. (The Journal's policies on your use of the PDF file can be found at [www.yale.edu/jie/article\\_PDF\\_use.pdf](http://www.yale.edu/jie/article_PDF_use.pdf)). The paper will be transferred to a numbered issue and published in print and electronic form when the next slot becomes available.

Thank you for your fine contribution. On behalf of the editors of the Journal of Industrial Ecology, we look forward to your continued contributions to the Journal.

Sincerely,  
 Manfred Lenzen  
 Associate Editor, Journal of Industrial Ecology  
 m.lenzen@physics.usyd.edu.au

JIE Home page: [www.wileyonlinelibrary.com/journal/jie](http://www.wileyonlinelibrary.com/journal/jie)  
 JIE submissions & reviews: <https://mc.manuscriptcentral.com/jie>  
 JIE Table of Contents Alert Service: <http://preview.tinyurl.com/JIE-ToC>  
 International Society for Industrial Ecology: [www.is4ie.org](http://www.is4ie.org)

Reviewer(s)' Comments to Author:  
 Reviewer: 2


Comments to the Author

This paper developed a novel and interesting method to assess the benefit and loss from the life cycle of a diesel engine. Content of the paper has been revised according to the comments. By the way, the missing parameters in comment 2. are  $\pi$  and  $\mu$ . I suggest that this article can be accepted after revised according to the form requirement of JIE.

Reviewer: 1

Comments to the Author  
 NA

**Date Sent:** 12-Oct-2015

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## Decision Letter (15-JIE-4918)

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**To:** f\_afrinaldi@yahoo.com, afrinaldiferi@gmail.com

**CC:**

**Subject:** Journal of Industrial Ecology - Decision on Manuscript ID 15-JIE-4918

**Body:** 27-Jun-2015

Dear Mr. FERI AFRINALDI:

I am pleased to inform you that your paper, Loss and Benefit Caused by a Diesel Engine: From the Perspective of Human Health (Manuscript ID 15-JIE-4918) has been accepted for publication in the Journal of Industrial Ecology upon receipt of an appropriately revised manuscript. The comments of the reviewer(s) are included at the bottom of this letter. The reviewer(s) have recommended publication, but also suggest some minor revisions to your manuscript. Therefore, I invite you to respond to the reviewer(s)' comments and revise your manuscript.

Because we are trying to facilitate the timely publication of manuscripts submitted to the Journal of Industrial Ecology, your manuscript should be revised as soon as possible. If it is not possible for you to submit your revision in a reasonable amount of time, we may have to consider your paper as a new submission.

### USE OF THE AUTHOR CENTER IN MANUSCRIPT CENTRAL

To revise your manuscript, log into <https://mc.manuscriptcentral.com/jie> and enter your Author Center, where you will find your manuscript title listed under "Manuscripts with Decisions." Under "Actions," click on "Create a Revision." Your manuscript number will be automatically updated to denote a revision.

You will be unable to make your revisions on the originally submitted version of the manuscript, that is, the file that is now stored in your Author Center on the JIE Manuscript Central website. Instead, revise your manuscript off-line (i.e., not while logged into Manuscript Central) using your own copy of the file that you originally submitted. If for some reason, you did not save your own copy of the original submission and need a copy, please let us know.

### EXPLANATION OF REVISIONS OR REBUTTALS

When submitting your revised manuscript, please explain **\*\*in detail\*\*** how you have responded to the comments made by the reviewer(s) -- in the space provided in your Author Center entitled "Response to Decision Letter." You are not obligated to accept all the criticisms or suggestions provided by the reviewers, but you do need to provide an explicit rationale for your decisions. This explanation is important: the more detail that you provide in describing the changes that you made or declined to make, and the rationale for your revisions (or rebuttals of the reviewers' criticisms), the faster the paper can reach publication.

If no description of your response to the reviews is provided, or if important questions raised by the reviewers are not addressed, your manuscript will **\*\*not be processed for publication\*\***.

### FORMATTING

If you have not already done so, please be sure to follow the JIE Guidelines for Authors (attached) when you submit your revised manuscript. Let me emphasize some details that will speed up the process of getting your paper into print:

- \* insert heading level indicators and remove heading numbering (and any associated references in text)
- \* use American spelling (and set the default spelling to US rather than UK English in your word processing software)
- \* change footnotes to endnotes
- \* note that there are specific points in the (re-)submission process where you are prompted to upload your figures and tables, and enter the associated captions.
- \* follow the formatting instructions for the reference list entries found in the Guidelines for Authors. If you use EndNote for citation management, you can download a template (an EndNote "style" file) that will automatically conform your reference list with JIE style from <http://endnote.com/downloads/style/journal-industrial-ecology>.

## FIGURES

Please provide an electronic file of each figure as a separate file in any of the preferred file formats: Encapsulated PostScript (EPS), Portable Document Format (PDF), and Tagged Image Format (TIFF). We suggest that line art be saved as EPS files. Alternately, these may be saved as PDF files at 600 dots per inch (dpi) or better at final size. Tone art, or photographic images, should be saved as TIFF files with a resolution of 300 dpi at final size. For combination figures, or artwork that contains both photographs and labeling, we recommend saving figures as EPS files, or as PDF files with a resolution of 600 dpi or better at final size. Please note that your figure will either print at a one- or two-column size. More detailed information on the submission of electronic artwork can be found at <http://authorservices.wiley.com/bauthor/illustration.asp>.

Figures can be reproduced in color, but it is expensive (\$500/figure) and the charges must be paid by the authors. So, if you do not intend to use color reproduction, please adjust the figure accordingly.

### NEXT STEPS: Contact with JIE editorial office at Yale

After the revisions are evaluated and found to be acceptable, your manuscript will be forwarded to the JIE editorial office at Yale. The editorial office will contact you about remaining details regarding clarity, formatting, graphics, copyright or resolution of minor substantive issues. There will be a series of exchanges between you and the JIE editorial office to address these details in the manuscript and to make the style appropriate for the Journal. Please note that because the Journal of Industrial Ecology is read by managers, policymakers and scholars and researchers in a wide variety of disciplines, there must be special attention to quality of writing and style. Please be patient with the extra scrutiny. It does not reflect on the quality of your writing or thinking, but on our need to be sure that your ideas effectively reach our diverse audience.

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Once again, thank you for submitting your manuscript to the Journal of Industrial Ecology and I look forward to receiving your revision.

Sincerely,  
Manfred Lenzen  
Associate Editor, Journal of Industrial Ecology  
[m.lenzen@physics.usyd.edu.au](mailto:m.lenzen@physics.usyd.edu.au)

JIE Home page: [www.wileyonlinelibrary.com/journal/jie](http://www.wileyonlinelibrary.com/journal/jie)  
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JIE Table of Contents Alert Service: <http://preview.tinyurl.com/JIE-ToC>  
International Society for Industrial Ecology: [www.is4ie.org](http://www.is4ie.org)

Reviewer(s)' Comments to Author:  
Reviewer: 1

#### Comments to the Author

This manuscript is a well-written, and well-argued. The model and the discussion provided important insights to the impact of diesel engine, while the model can be applied to any technologies.

A comparative study might not be necessary considering the scope of this work, but it may help to draw more interesting insights in terms of technology adoption. Authors are recommended to discuss this as a part of future research.

Reviewer: 2

#### Comments to the Author

This paper presents an explicit model to quantify the health benefits and loss during the life cycle of the diesel engine, which is a well organized and meaningful work. But some improvements are necessary for this article before publication. The detailed suggestions are listed as follows:

1. In section "DALY Benefit" (Page 4), indeed, not all factors (compensation of employees, rents, profits, taxes) have a direct relationship to the life cycle of a product. But why only

employee compensation can be the only factor that own direct relation with the life cycle of a product. It needs more convincing details to verify this point.

2. Page 7, the meanings of parameters like  $\alpha$  and  $\beta$  are not quite clear, please explain these two parameters further.


3. In section "ΔDALY Loss and ΔDALY Benefit" (Page 12), only CO2 was taken into consideration to calculate the ΔDALY Loss, the one-sided calculation may make the final result inaccuracy. And why the ΔDALY benefits of end-of-life stage was omitted in this case study?

4. In Table 2, this paper only considers the materials production in the VProd calculation, what about the manufacturing process from materials to engine?

5. Page 13, "For scenario 1,  $y_2(s)=29,894.84$ ,  $d_{14}=1,120.93$ ,  $d_{24}=5,039.98$ ....." should be "For scenario 2.....", and we can find any information about  $d_{24}$  (department 24th in EIO table)?

**Date Sent:** 27-Jun-2015

**File 1:** [\\* JIEstyle4authors.pdf](#)

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