

Web of Conferences – 170 x 250 mm paper size, one column format

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Abstract. The rapid growth of motorized vehicles in Indonesia has resulted in a significant increase in B3 used oil waste, creating serious environmental concerns due to inadequate management. This study analyzes the synergy between the Circular Economy and Clean Production (CP) concepts in recycling B3 waste oil into Alternative Fuel at PT. Mandala Niaga Energi. Using a qualitative exploratory case study, data were gathered through interviews, observations, and document analysis. The findings show that the company effectively integrates both approaches. The core recycling process applies pyrolysis technology to convert used oil into Medium Dissolved Oil (MDO). Moreover, wastewater is reused for cooling, and flue gas is processed into FGD Gypsum for construction. This synergy demonstrates a sustainable zero-waste system, transforming hazardous B3 waste into valuable energy while maintaining environmental compliance and ensuring consistent raw material supply through a reverse logistics system.

1 Page layout

Use 170 x 250 mm paper size (W x H mm) and adjust the margins to those shown in the Table 1. The final printed area will be 130 x 210 mm. Do not add any page numbers.

Table 1. Setting Word’s margins.

Margin	mm
Top	24
Bottom	16
Left	20
Right	20

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1.1 Formatting the title, authors and affiliations

1.1.1 Formatting the title

The title is set in bold 16-point Arial, justified. The first letter of the title should be capitalised with the rest in lower case. You should leave 22 mm of space above the title and 6 mm after the title.

1.1.2 Formatting author names and author affiliations

The style for the names is First Names, typed in italic 10-point Times, then Last Name, typed in 10-point Times, with a comma after all except the last author, which is separated by comma + “and”. Do not use academic titles.

Affiliations of authors should be typed in 9-point Times. They should be preceded by a numerical superscript corresponding to the same superscript after the name of the author concerned. Please ensure that affiliations are as full and complete as possible and include the country.

1.2 Formatting the text

The text of your paper should be formatted as follows:

- 10-point Times, Times Roman or Times New Roman.
- The text should be set to single line spacing.
- Paragraphs should be justified.
- The first paragraph after a section or subsection should not be indented; subsequent paragraphs should be indented by 5 mm.

The use of sections to divide the text of the paper is optional and left as a decision for the author. Where the author wishes to divide the paper into sections the formatting shown in Table 2 should be used.

Table 2. Formatting sections, subsections and subsubsections.

	Font	Spacing	numbering
Section	12-point Arial bold	6 mm before 3 mm after	1, 2, 3, etc.
subsection	10-point Arial bold	6 mm before 3 mm after	1.1, 1.2, 1.3, etc.
subsubsection	10-point <i>Arial Italic</i>	6 mm before 3 mm after	1.1.1, 1.1.2, 1.1.3, etc.

2 Figures and tables

Figures and tables, as originals of good quality and well contrasted, are to be in their final form, ready for reproduction, pasted in the appropriate place in the text. Try to ensure that the size of the text in your figures is approximately the same size as the main text (10 point). Try to ensure that lines are no thinner than 0.25 point.

2.1 Captions/numbering

Captions should be typed in 9-point Times. They should be centred above the tables and flush left beneath the figures.

2.2 Positioning

Place the figure as close as possible after the point where it is first referenced in the text. If there is a large number of figures and tables, it might be necessary to place some before their text citation.

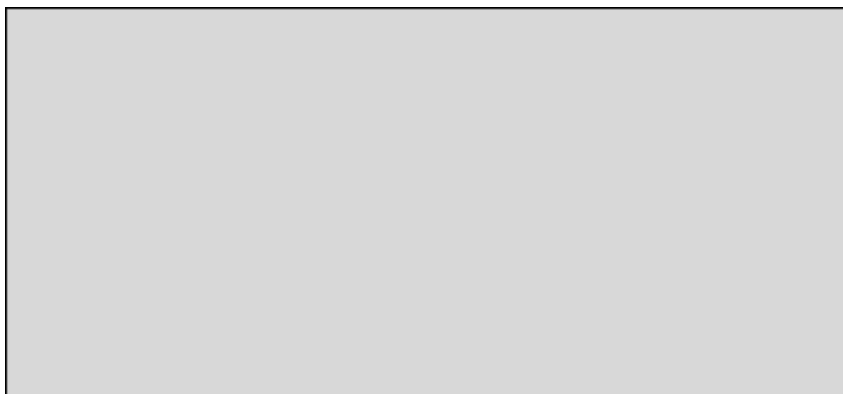


Fig. 1. Caption of the Figure 1. Below the figure.

2.3 Colour illustrations

You are free to use colour illustrations for the online version of the proceedings, but any print version will be printed in black and white unless special arrangements have been made with the conference organiser. Please check whether or not this is the case. If the print version will be black and white only, you should check your figure captions carefully and remove any reference to colour in the illustration and text. In addition, some colour figures will degrade or suffer loss of information when converted to black and white, and this should be considered when preparing them.

3 Equations and mathematics

Equations should be centred and should be numbered with the number on the right-hand side.

$$T_s(l, t) = T_g(l, t) \tag{1}$$

$$T_s(l, t) = T_g(l, t) \quad T_b(x) \rightarrow -\beta, t) = 0 \tag{2}$$

Use italics for variables (*u*) and bold (**u**) for vectors. The order for brackets should be {[()]} , except where brackets have special significance.

The acknowledgements should be typed in 9-point Times, without title.

References

Online references will be linked to their original source, only if possible. To enable this linking extra care should be taken when preparing reference lists.

References should be cited in the text by placing sequential numbers in brackets (for example, [1], [2, 5, 7], [8-10]). They should be numbered in the order in which they are cited. A complete reference should provide enough information to locate the article. References to printed journal articles should typically contain:

- The authors, in the form: initials of the first names followed by last name (only the first letter capitalized with full stops after the initials),
- The journal title (abbreviated),
- The volume number (bold type),
- The article number or the page numbers,
- The year of publication (in brackets).

Authors should use the forms shown in Table 3 in the final reference list.

Table 3. Font styles for a reference.

Element	Style
Authors	Reference Body (Initials followed by last name)
Journal title	Reference Body (Abbreviated)
Book title, Proceedings title	Reference Body - Book/Proceedings title
Volume number	Reference Volume Bold
Page number	Reference Body
Year	Reference Body (In brackets)

Examples for Journal articles

1. A. Nicolas, J.-L. Barrat, J. Rottler, Effects of inertia on the steady-shear rheology of disordered solids. Phys. Rev. Lett. **116**, 058303 (2016)
2. A. Lohrasebi, T. Koslowski, Modeling water purification by an aquaporin-inspired graphene-based nano-channel. J. Mol. Model. **25**, 280 (2019)
<https://doi.org/10.1007/s00894-019-4160-y>

If available, author(s) must add the DOI number of the article.

References must contain the full title of the cited article

A maximum of 15 references per article is allowed, with only a maximum of 3 citations to proceedings articles. Please note that article exceeding this quota can be excluded from the publication by the production team.

Noted:

1. Maximum paper at 6-8 pages (exceeding this will be rejected).
2. A maximum of 15 references per article is allowed, with only a maximum of 3 citations to proceedings articles.
3. Image quality at 300 DPI (According to the minimum requested image quality standards from E3S Web of Conference).
4. Check in detail for the quality of the English language (Proofreading to an expert is recommended). Including English (international reader readability) in the images/tables/diagrams/flowcharts in the paper.
5. Check the writing of references following the E3S Web of Conference format
6. Follow the template in detail following the E3S Web of Conference format
7. Attach proof that Similarity check has been carried out with a maximum of 20%.
8. Attach proof that AI check has been carried out with a maximum of 20%.
9. To guarantee contribution and license to be published in E3S Web of Conference, attach the following link:
https://www.e3s-conferences.org/doc_journal/woc/publication_right_form.pdf
10. To improve the International Standing of IN-SIGHT 2026, the priority is to have diversity of authors from International Authors