Review Form 1.7

Journal Name:	**Asian Journal of Environment & Ecology**
Manuscript Number:	**Ms_AJEE_98265**
Title of the Manuscript:	**Compressed air uses, efficiency, and carbon reduction: A case study**
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty'**, provided the manuscript is scientifically robust and technically sound.
To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment:	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Compulsory REVISION comments **1. Is the manuscript important for scientific community?** (Please write few sentences on this manuscript) **2. Is the title of the article suitable?** (If not please suggest an alternative title) **3. Is the abstract of the article comprehensive?** **4. Are subsections and structure of the manuscript appropriate?** **5. Do you think the manuscript is scientifically correct?** **6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.** **(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)**	**1 → Yes. This manuscript has some relevance due to the production and use of compressed gas for the decarbonization process on industrial sites.** **2 → Not. The Article Title should be adjusted to:** **"The production and use of compressed air to decarbonization process in industrial sites of medium-sized European".** **3 → Not. The *Abstract* must be re-written and must show the main points and results achieved in this research. It should be mentioned mainly the location where the research was carried out, as well as the reduction in the amount of water used in this optimization...** **4 → Yes. The subsections and structure of paper are appropriate.** **5 → Yes. In some parts. But. need to improve scientific level, replot some graphics (in Microcal Origin 7.0 or higher), make some text corrections, scale abbreviations for scientific standard. Please replot the Figures indicated Below.** **6 → Not. Please cited this seven references at introduction.** **References below:** **[X1] https://doi.org/10.1016/j.jclepro.2022.132698** **[X2] https://doi.org/10.1016/j.energy.2020.118662** **[X3] https://doi.org/10.1016/j.est.2023.106647** **[X4] doi:10.1088/1757-899X/844/1/012019** **[X5] doi:10.1088/1757-899X/232/1/012085** **[X5] https://arrow.tudublin.ie/cgi/viewcontent.cgi?article=1056&context=sdar** **[X6] https://iopscience.iop.org/article/10.1088/1757-899X/1154/1/012009** **[X7] https://doi.org/10.1016/j.apenergy.2021.118183**	
Minor REVISION comments **1. Is language/English quality of the article suitable for scholarly communications?**	**Minor Corrections in some part of text.** **Please revise.** **Examples at below;;;** **New Conclusions suggestion's…** **In summary, the decarbonisation process in industries requires several stages and the consumption of new materials for complete optimization with the use of compressed air on industrial sites. New technology and innovation have also been taken into consideration. The total savings identified are up to 69 tons of CO2 gas. At the same time, substantial financial savings have been identified (up to 44 k€). Once consumption has been optimized, the next step is to supply the equipment with renewable energy such as solar panels and wind turbines. However, we must not completely disregard the risk factor for accidents involved, as well as the safety of the environment, bodies of water, and human workers involved near the systems under high pressure (what ??Bar ?).** **Please → Correct.** **(m3/hr)** **m3 → to → m^3** **hr → h** **40^oC → $40\ ^oC$** **160 kw → 160 kW** 1500 m^3/hour → **1500 m^3/h** **The Figures Replot for points…** **Figure 1: Figure 2: Figure 6: Figure 7:** **Increase the size and resolution of Figure 3:** **Figure 6:** **Replot Figures no Microcal Origin 7.0 or superior..** **Figure 8**	

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Optional/General comments	***General Comments on the Manuscript (AJEE-98265R1)***. In this paper, the authors report "The production and use of compressed air to decarbonization process in an industrial site of medium-sized European". In the text there are some paragraphs that should be improved and rewritten examples are below: → The abstract must be re-written and must show the main points and results achieved in this research. It should be mentioned mainly the location where the research was carried out, as well as the reduction in the amount of water used in this optimization... <-- → Introduction, the "7 references" should be added that should be used as background and inspiration so that this work is really new and relevant to the literature and thus be cited in future research. → The number of references must be strengthened and improved. These references mentioned below must be cited in the manuscript before publication. References below: [X1] https://doi.org/10.1016/j.jclepro.2022.132698 [X2] https://doi.org/10.1016/j.energy.2020.118662 [X3] https://doi.org/10.1016/j.est.2023.106647 [X4] doi:10.1088/1757-899X/844/1/012019 [X5] doi:10.1088/1757-899X/232/1/012085 [X5] https://arrow.tudublin.ie/cgi/viewcontent.cgi?article=1056&context=sdar [X6] https://iopscience.iop.org/article/10.1088/1757-899X/1154/1/012009 [X7] https://doi.org/10.1016/j.apenergy.2021.118183 →It's necessary to improve the scientific level, replot some graphics (in Microcal Origin 7.0 or higher), make some text corrections, and scale abbreviations for scientific standards. --> Conclusions.. Suggestion for new conclusion below: In summary, the decarbonization process in industries requires several stages and the consumption of new materials for complete optimization with the use of compressed air on industrial sites. New technology and innovation have also been taken into consideration. The total savings identified are up to 69 tons of CO2 gas. At the same time, substantial financial savings have been identified (up to 44 k€). Once consumption has been optimized, the next step is to supply the equipment with renewable energy such as solar panels and wind turbines. However, we must not completely disregard the risk factor for accidents involved, as well as the safety of the environment, bodies of water, and human workers involved near the systems under high pressure (what ??Bar ?)…	

PART 2:

	Reviewer's comment	**Author's comment** *(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)*
Are there ethical issues in this manuscript?	*(If yes, Kindly please write down the ethical issues here in details)*	

Reviewer Details:

Name:	**Laécio Santos Cavalcante**
Department, University & Country	**Universidade Estadual do Piauí, Centro de Tecnologia Mineral, Brazil**