

# Review of: "Evaluation of Reliability and Financial Feasibility of Various EV Charging Station Layouts"

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**Potential competing interests:** No potential competing interests to declare.

Comments on "Assessing Reliability and Economic Viability of Different EV Charging Station Configurations"

The strongest point of the summary is the abstract, which announces a new design of an EV charging station with 56 ports. It also suggests that the study of the failure rate of the ports and an evaluation mechanism is proposed to establish the overall success of the installation in probabilistic terms. Based on this study, the cost estimation of the charging station is determined. An additional conclusion indicates that enhancing the port arrangement and improving voltage stability will result in lower failure rates and maintenance costs.

Nonetheless, there are many weak points as commented on in the following paragraphs. They are related to organization, consistency, information, and references.

## Organization

The paper organization is extremely poor, with redundant sentences and the lack of a conducting path that passes from one concept to another in order to express a clear motivation for the paper. The writing is an accumulation of sentences resulting in a complete absence of meaning.

An example of this is the phrase "The equation demonstrates..." in point 4. Which equation is referred to since there are absolutely no equations in the summary?

Graphical information would help to understand the features announced in the abstract.

## Consistency.

The abovementioned accumulation of sentences precludes the writing of an appropriate transition between concepts, which yields unclear conclusions. In this sense, it is difficult to understand how a reliable port arrangement ensures voltage stability.

A particular example of inconsistency in a single sentence is the reference to IEEEERTS standards in section 3. What standards are they?

## Information.

There is no information on the electrical architecture of the charging station, which is essential to figure out the underlying

problems of its design and implementation. Neither is there a clear description of the type of charge envisaged in the station, i.e., conventional, fast, or ultrafast.

References.

Many references have no relation at all to the subject in the text. An example of this is references [3], [7], [11], [14], [18], [24], [25], and [27].

References [5] and [6] are the same.