

Wind Energ. Sci. Discuss., author comment AC2
<https://doi.org/10.5194/wes-2022-66-AC2>, 2022
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Reply on RC2

Paul Veers et al.

Author comment on "Grand Challenges: wind energy research needs for a global energy transition" by Paul Veers et al., Wind Energ. Sci. Discuss.,
<https://doi.org/10.5194/wes-2022-66-AC2>, 2022

Response to Referee #2

The manuscript entitled „Grand Challenges: Wind energy research needs for a global energy transition“ is meant as a letter to introduce a series of ten articles which outline in more details research challenges in wind energy. The whole initiative should promote and inspire the community of wind energy science. This letter gives an excellent introduction in the initiative and will add important informations. I support the publication.

Thank you very much. Our hope is that the article achieves the outcomes suggested here.

A few minor comments from my side:

lines 22,23 „... development, and deployment of land and offshore... “ two times development does not sound goof to me.

The comment is not clear, there are not two uses of development. Perhaps the use of “development“ is not clear. We have replaced it with “manufacture“ to refer to a clearly different part of the process of bringing potential solutions all the way to application.

Line 81 :“technology development, policy, public acceptance, economic, public-private partnerships“ suggest to add etc. to this list, as it seems to me that it is not a claim that this list is complete.

Agreed. Changed as recommended.

Line 91. „services, often hybrid with solar and storage, ...“

Mentioning only solar is too restrictive. Here I would add al least hydro as the third main renewable system - or more general mention other renewable energy systems (to include biogas or in future synthetic fuels, which will have an impact on grid integration) : my suggestion : ... often hybrid with storage and other renewable energy systems, ...

Although solar is already mainstream and the dominant energy partner to wind in supplying energy globally, we agree with the suggestion and have changed the wording as recommended.

Lines 99/100 this sentence: „The charter to ...“- I do not find this sentence very good formulated (I am not a native speaker thus take this a remark.)

- The charter to the authors - I would suggest: The charter for the authors...

Thank you for the warning that this is not clear. The sentence has been revised to clarify.

- what is „tout“? Is this meant as verb, here I would suggest to add „to“- ... or to tout specific ...

You are correct that “tout” is a verb and is used here to mean “promote” with the implication that it might be in an overly persistent or self-centered way. We have changed the wording as recommended.

Line 103 : „nations“ in this list does not fit. Nations is in my interpretation no group but another category, I would suggest national governments or short governments.

Agreed. Changed as recommended.