

Harmonic Stability and Distortion in Offshore Wind Farms

Beloqui Larumbe, L.

DOI

[10.4233/uuid:2d917deb-1a14-414a-b475-956455d9b4ce](https://doi.org/10.4233/uuid:2d917deb-1a14-414a-b475-956455d9b4ce)

Publication date

2024

Document Version

Final published version

Citation (APA)

Beloqui Larumbe, L. (2024). *Harmonic Stability and Distortion in Offshore Wind Farms*. [Dissertation (TU Delft), Delft University of Technology]. <https://doi.org/10.4233/uuid:2d917deb-1a14-414a-b475-956455d9b4ce>

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Propositions

Accompanying the dissertation

Harmonic Stability and Distortion in Offshore Wind Farms

By

Lucia BELOQUI LARUMBE

1. Small-signal stability is the most fundamental technical pre-requisite (*this thesis*).
2. In a world of distributed energy sources, synchronization among uncommunicated units is one of the key control challenges (*this thesis*).
3. Grid-code requirements on the current generation during faults may unknowingly place converters closer or further from stability (*this thesis*).
4. Direct statistical approaches are better suited for studying harmonics in power systems based on power electronics in comparison to the state of the art methods (*this thesis*).
5. Wisdom and knowledge are different. People link wisdom to quantity of knowledge, while, in reality, it is more related to the humble realization of a lack thereof.
6. Many engineers and scientists complain about the lack of trust of today's society in science and "facts"; while at the same time, they look down with condescension on the outputs and methods of social sciences and other branches of academia.
7. The world desperately needs a new type of leadership. The best countermeasures for the growing divisions and confrontations in society are humility and empathy.
8. Conviction is being sure about a position or belief given the information and life experiences at hand. Hence it is not mutually exclusive to listening and having an open mind to changing such position or belief.
9. Academia is still profoundly patriarchal. Feminism, queerness and diversity are some of much needed antidotes.
10. Climate change is the biggest threat humanity faces today.

These propositions are regarded as opposable and defensible and have been approved as such by the promotor Prof.Dr.Ir. P. Bauer and the copromotor Dr. Z. Qin