

is about 10 times faster than the time of data set

REFERENCES

Digital twin modelling of floating offshore wind turbine with fully coupled aero-hydrodynamic simulation

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Offshore wind energy demonstrated as reliable energy source over the past decade and contributed to the road of decarbonisation Net Zero 2050. There was 48.2 GW offshore wind capacity already completed by 2021 [1], Particularly, the Floating Offshore Wind Turbines (FOWTs) have received great attention, and it is expected to have higher potential to harvest wind energy than traditional fix-bottom type offshore wind turbines. In terms of the structural integrity and operational requirements, the mooring systems dictate survivability of FOWT under the extreme wave loading and the required station-keeping performance.

