

Madjid Karimirad

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Post-Doctoral topic: “Alternative offshore wind turbines for moderate water depths”

The feasibility of application of offshore wind turbines at moderate water depths is studied in this post-doctoral research. In the oil and gas industries, offshore platforms are widely applied in the deep and moderate depths. The power performance, structural integrity and dynamic responses of offshore wind turbines in deep water (spar-type wind turbines with catenary or taut mooring systems) have previously been studied by Dr. Madjid Karimirad. In the current research, the alternative offshore wind turbines for moderate water depths are studied. The idea is to reduce the cost of electricity from offshore wind. Code-to-code comparison between the simplified and comprehensive aero-hydro-servo-elastic codes is among other issues in this research. The idea is to introduce fast methods with respect to processing-time while maintaining an acceptable accuracy.