

University of Stuttgart Stuttgart Wind Energy (SWE) @ Institute of Aircraft Design

> Assessment of mooring profiles for a 15MW floating offshore wind turbine using coupled dynamic analyses

Qi Pan*, Mohammad Youssef Mahfouz and Frank Lemmer

pan@ifb.uni-stuttgart.de



WINDFORS

Motivations, objectives and conclusions



	Mooring	Mooring	Seabed	Floater	Line	Fatigue	Total
	footprint	length	contact	surge	tension	damage	cost
effect	1	1	1	1	1	1	17%

Methodology



Load case results



University of Stuttgart, Stuttgart Wind Energy (SWE) @ Institute of Aircraft Design

Load case results

• Ultimate load cases DLC6.1

