

Regression test

Test run started 2023-06-24T19:45:39Z

Ashes version: 3.20.0

Comparing with external results

DTU 10-MW steady state performance - Timoshenko blades with offsets			
Load case set 1			
Load case	Time series	Error score	Result
4 ms wind speed	Power (aero)	0.010664	PASS
	Thrust (aero)	0.044800	PASS
	RPM	0.000509	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.008226	PASS
	Thrust coef. (CT)	0.046584	PASS
5 ms wind speed	Power (aero)	0.016460	PASS
	Thrust (aero)	0.023753	PASS
	RPM	0.000509	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.014961	PASS
	Thrust coef. (CT)	0.025679	PASS
6 ms wind speed	Power (aero)	0.023097	PASS
	Thrust (aero)	0.003121	PASS
	RPM	0.000506	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.021483	PASS
	Thrust coef. (CT)	0.005415	PASS
7 ms wind speed	Power (aero)	0.025064	PASS
	Thrust (aero)	0.009648	PASS
	RPM	0.000510	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.024153	PASS
	Thrust coef. (CT)	0.007493	PASS
8 ms wind speed	Power (aero)	0.023507	PASS
	Thrust (aero)	0.017046	PASS
	RPM	0.006034	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.021042	PASS
	Thrust coef. (CT)	0.014862	PASS
9 ms wind speed	Power (aero)	0.020928	PASS
	Thrust (aero)	0.021931	PASS

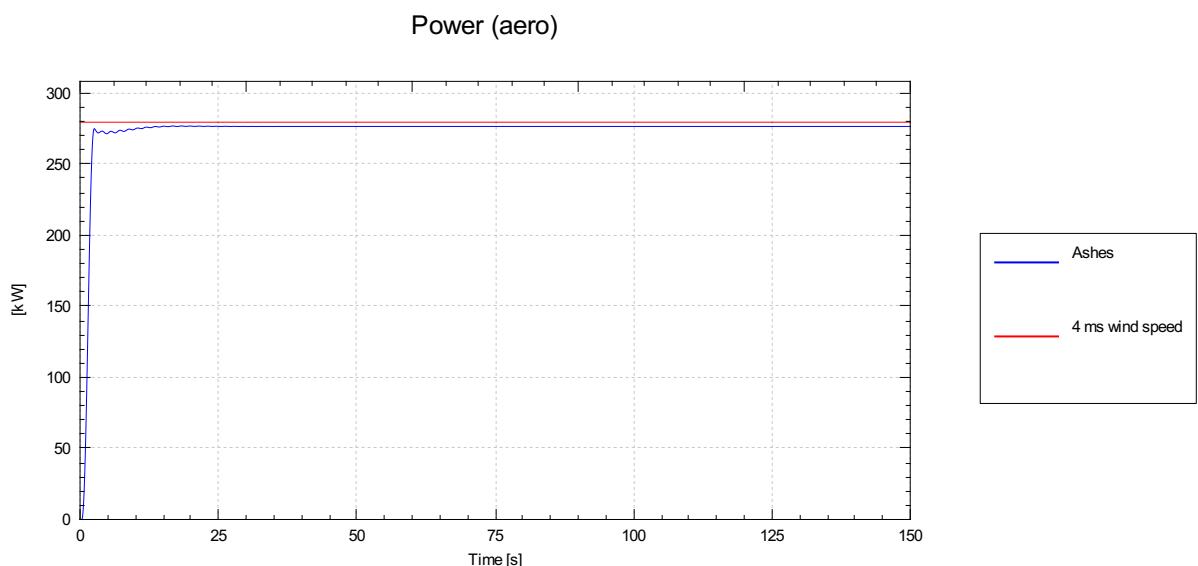
	RPM	0.005573	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.018512	PASS
	Thrust coef. (CT)	0.019838	PASS
10 ms wind speed	Power (aero)	0.017907	PASS
	Thrust (aero)	0.028190	PASS
	RPM	0.005273	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.015578	PASS
	Thrust coef. (CT)	0.025860	PASS
11 ms wind speed	Power (aero)	0.014712	PASS
	Thrust (aero)	0.034892	PASS
	RPM	0.005315	PASS
	Demanded collective pitch angle	0.000000	PASS
	Power coef. (CP)	0.012341	PASS
	Thrust coef. (CT)	0.033001	PASS
12 ms wind speed	Power (aero)	0.009694	PASS
	Thrust (aero)	0.003415	PASS
	RPM	0.015225	PASS
	Demanded collective pitch angle	0.062198	PASS
	Power coef. (CP)	0.012764	PASS
	Thrust coef. (CT)	0.001684	PASS
13 ms wind speed	Power (aero)	0.008007	PASS
	Thrust (aero)	0.007895	PASS
	RPM	0.015230	PASS
	Demanded collective pitch angle	0.010762	PASS
	Power coef. (CP)	0.009417	PASS
	Thrust coef. (CT)	0.008529	PASS
14 ms wind speed	Power (aero)	0.008570	PASS
	Thrust (aero)	0.017680	PASS
	RPM	0.015230	PASS
	Demanded collective pitch angle	0.004248	PASS
	Power coef. (CP)	0.012255	PASS
	Thrust coef. (CT)	0.018896	PASS
15 ms wind speed	Power (aero)	0.004524	PASS
	Thrust (aero)	0.020635	PASS
	RPM	0.015230	PASS
	Demanded collective pitch angle	0.012248	PASS
	Power coef. (CP)	0.005620	PASS
	Thrust coef. (CT)	0.021680	PASS
16 ms wind speed	Power (aero)	0.008138	PASS
	Thrust (aero)	0.031065	PASS

	RPM	0.015229	PASS
	Demanded collective pitch angle	0.017634	PASS
	Power coef. (CP)	0.008787	PASS
	Thrust coef. (CT)	0.031001	PASS
17 ms wind speed	Power (aero)	0.007995	PASS
	Thrust (aero)	0.037519	PASS
	RPM	0.015229	PASS
	Demanded collective pitch angle	0.020647	PASS
	Power coef. (CP)	0.006726	PASS
	Thrust coef. (CT)	0.039795	PASS
18 ms wind speed	Power (aero)	0.007887	PASS
	Thrust (aero)	0.043178	PASS
	RPM	0.015230	PASS
	Demanded collective pitch angle	0.023180	PASS
	Power coef. (CP)	0.011895	PASS
	Thrust coef. (CT)	0.043532	PASS
19 ms wind speed	Power (aero)	0.006908	PASS
	Thrust (aero)	0.047527	PASS
	RPM	0.015231	PASS
	Demanded collective pitch angle	0.024799	PASS
	Power coef. (CP)	0.003749	PASS
	Thrust coef. (CT)	0.053267	PASS
20 ms wind speed	Power (aero)	0.006852	PASS
	Thrust (aero)	0.053619	PASS
	RPM	0.015231	PASS
	Demanded collective pitch angle	0.025400	PASS
	Power coef. (CP)	0.008910	PASS
	Thrust coef. (CT)	0.057268	PASS
21 ms wind speed	Power (aero)	0.007708	PASS
	Thrust (aero)	0.059307	PASS
	RPM	0.015231	PASS
	Demanded collective pitch angle	0.026256	PASS
	Power coef. (CP)	0.010889	PASS
	Thrust coef. (CT)	0.063185	PASS
22 ms wind speed	Power (aero)	0.007665	PASS
	Thrust (aero)	0.064890	PASS
	RPM	0.015231	PASS
	Demanded collective pitch angle	0.026588	PASS
	Power coef. (CP)	0.014432	PASS
	Thrust coef. (CT)	0.062596	PASS
23 ms wind speed	Power (aero)	0.007692	PASS
	Thrust (aero)	0.070301	PASS

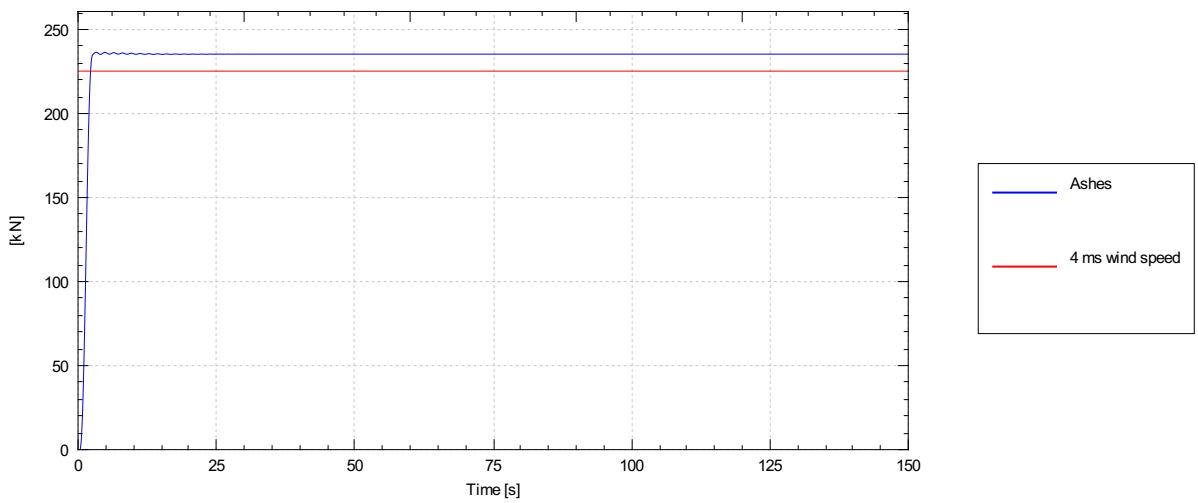
	RPM	0.015232	PASS
	Demanded collective pitch angle	0.026687	PASS
	Power coef. (CP)	0.012413	PASS
	Thrust coef. (CT)	0.073919	PASS
24 ms wind speed	Power (aero)	0.007826	PASS
	Thrust (aero)	0.075392	PASS
	RPM	0.015235	PASS
	Demanded collective pitch angle	0.026759	PASS
	Power coef. (CP)	0.015944	PASS
	Thrust coef. (CT)	0.079424	PASS
25 ms wind speed	Power (aero)	0.007919	PASS
	Thrust (aero)	0.081164	PASS
	RPM	0.015237	PASS
	Demanded collective pitch angle	0.026484	PASS
	Power coef. (CP)	0.021507	PASS
	Thrust coef. (CT)	0.089036	PASS

Load case: 4 ms wind speed

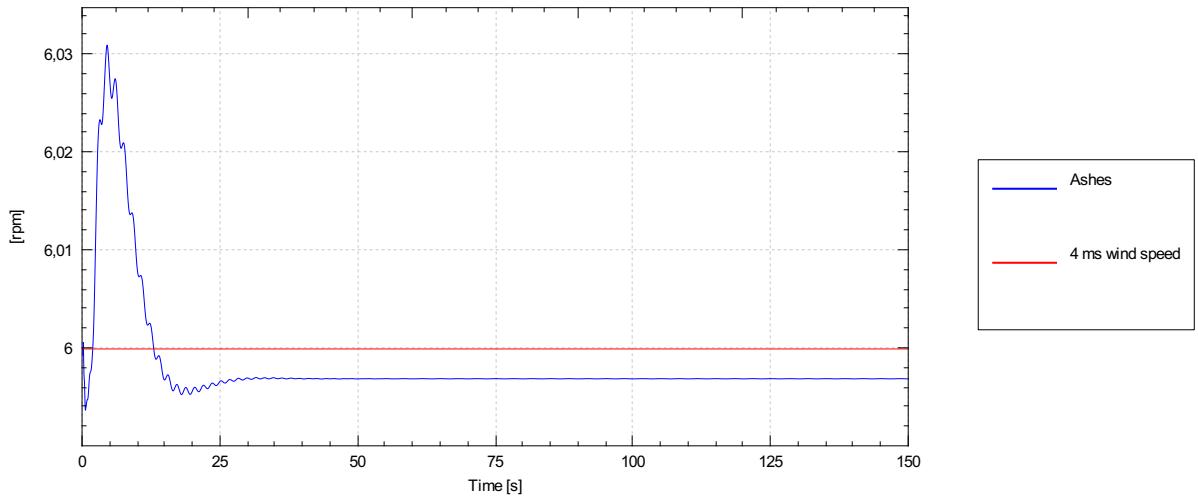
Sensor Rotor



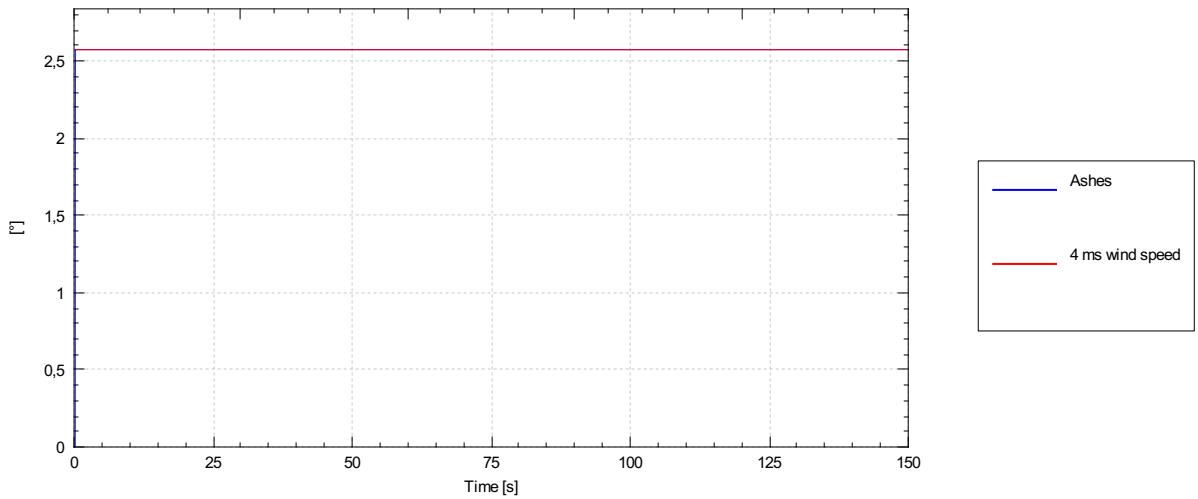
Thrust (aero)



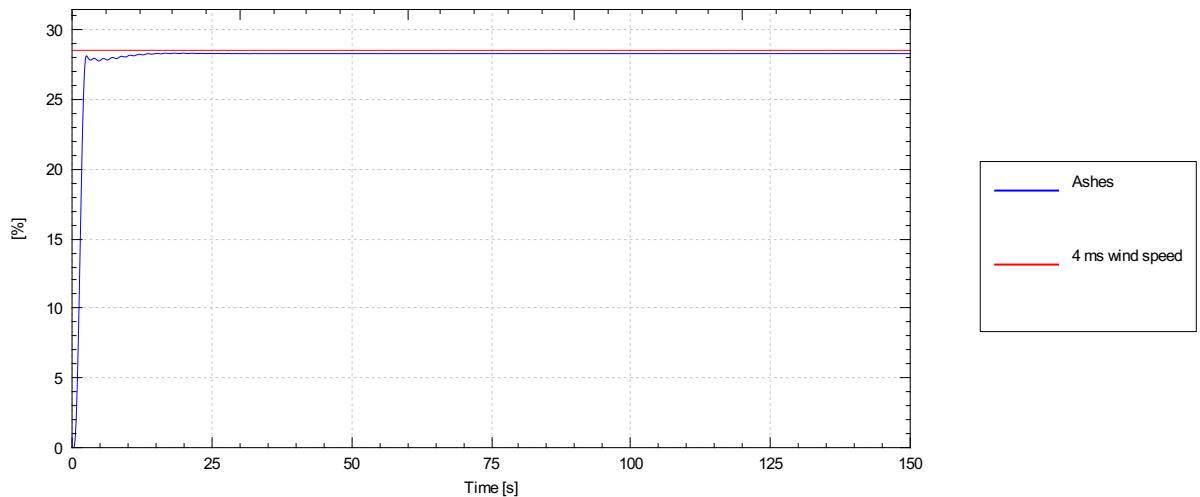
RPM



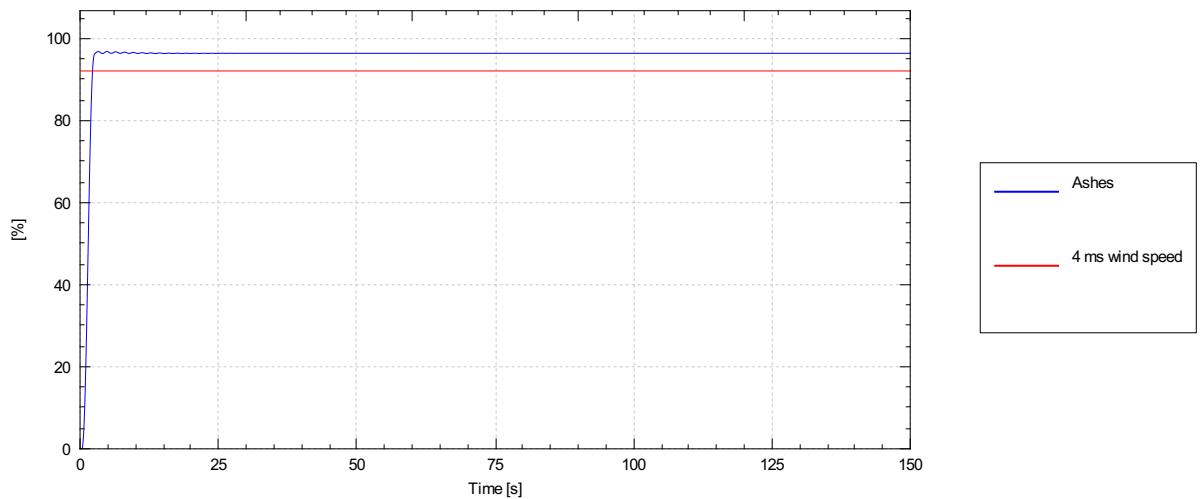
Demanded collective pitch angle



Power coef. (CP)



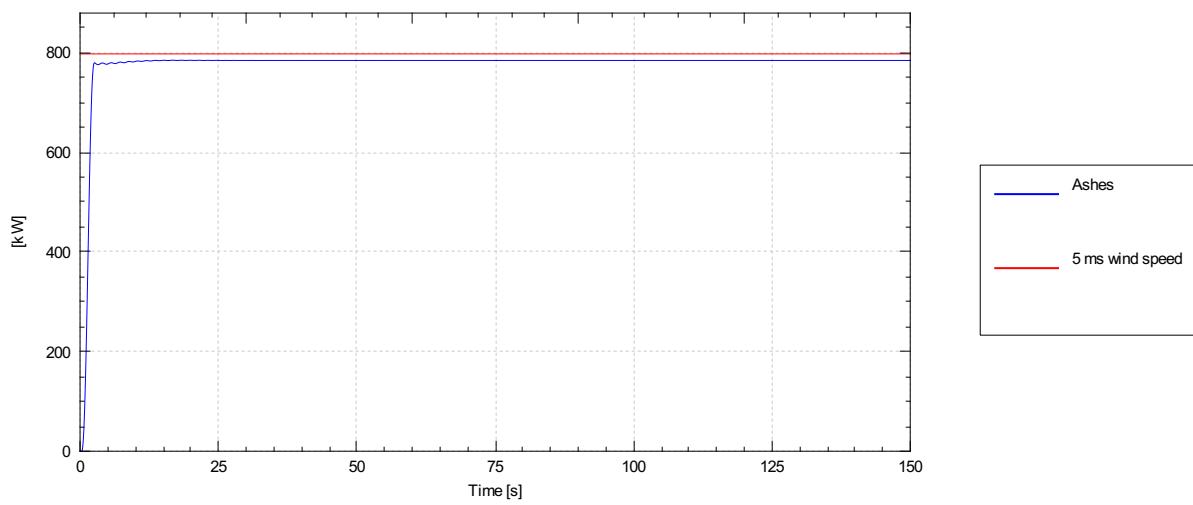
Thrust coef. (CT)



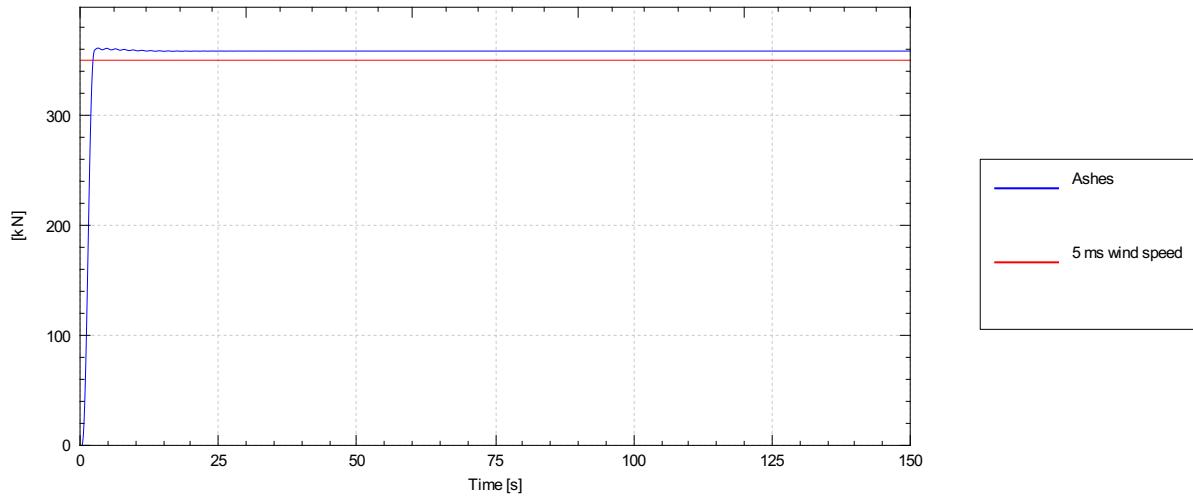
Load case: 5 ms wind speed

Sensor Rotor

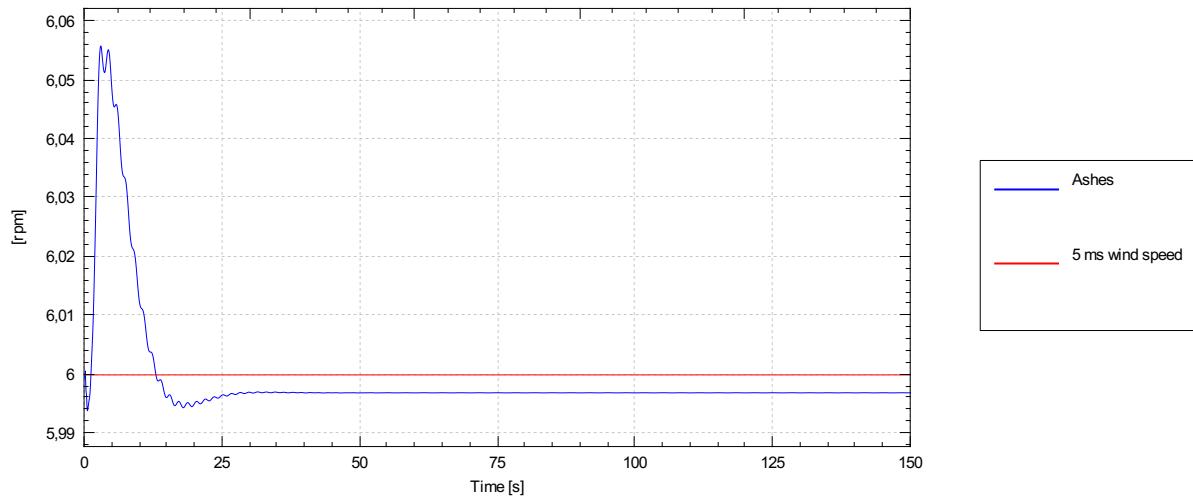
Power (aero)



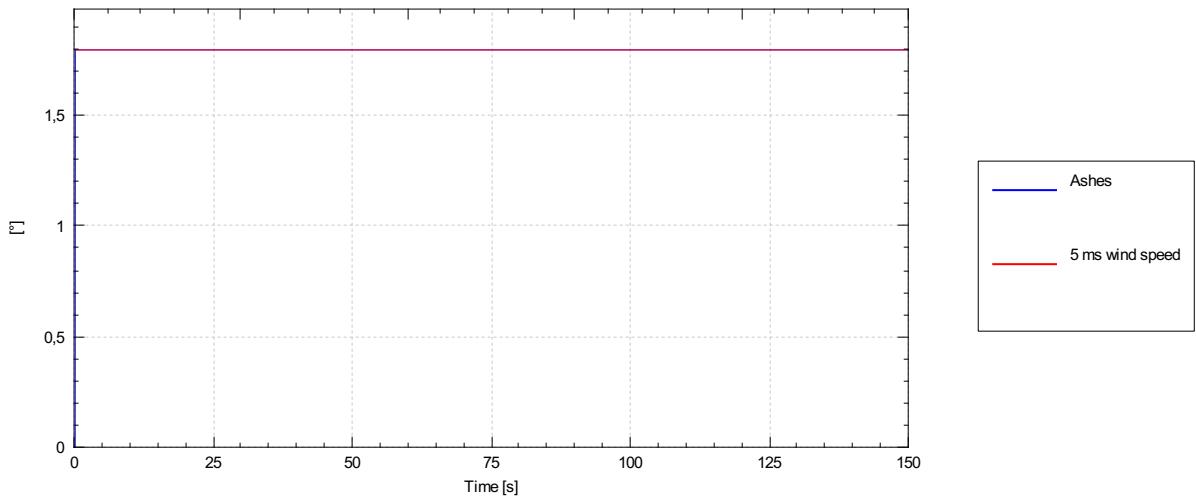
Thrust (aero)



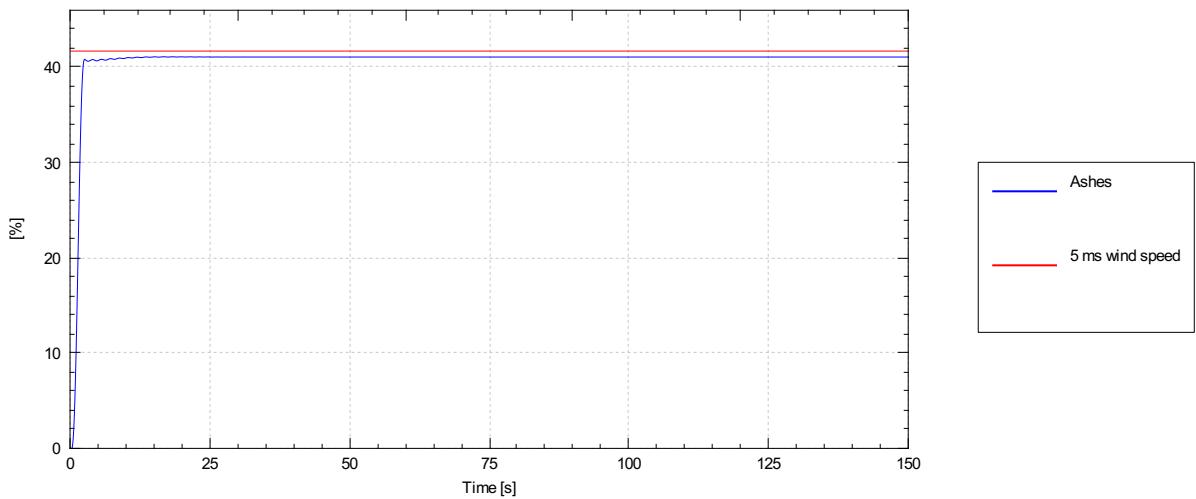
RPM



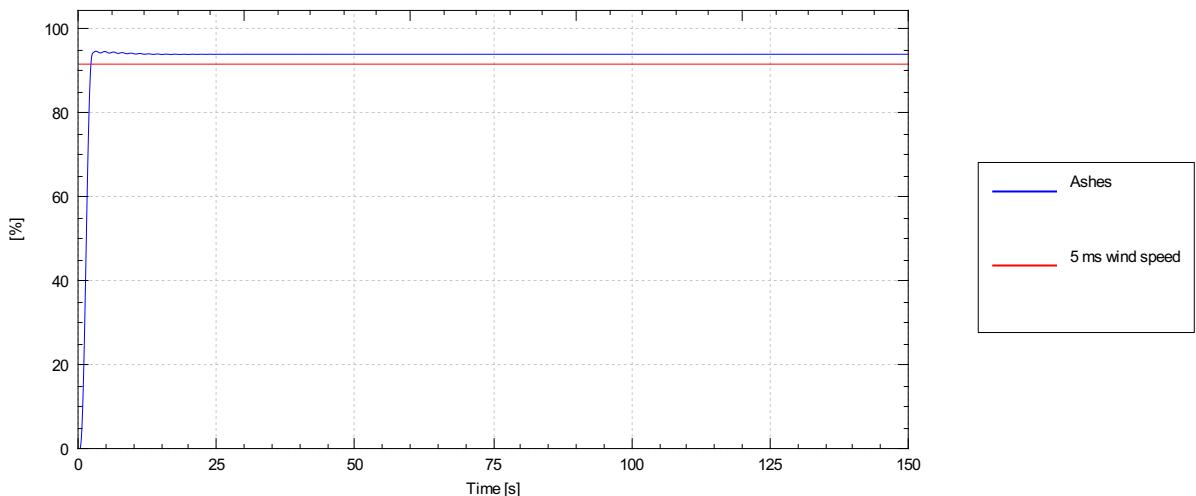
Demanded collective pitch angle



Power coef. (CP)



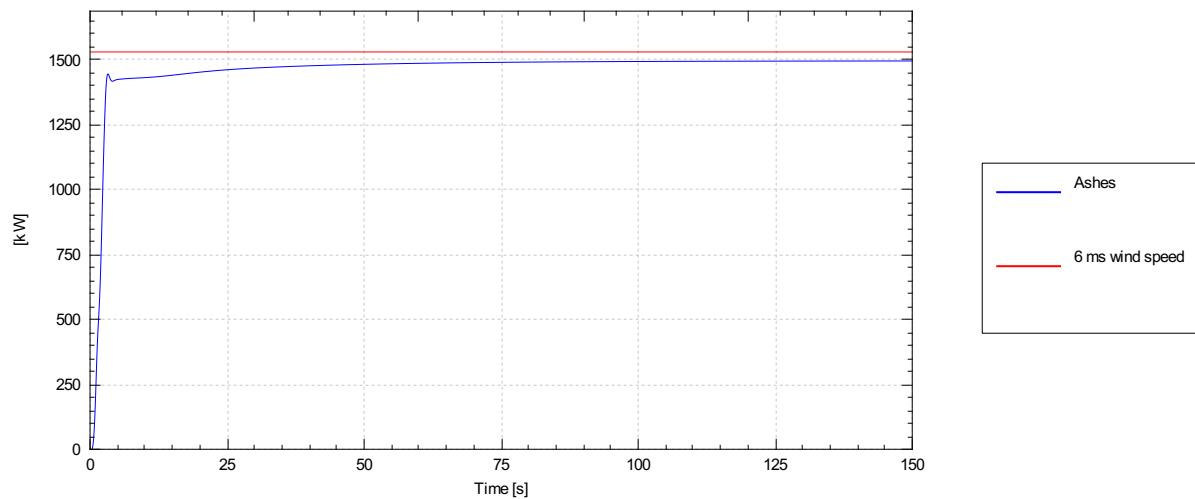
Thrust coef. (CT)



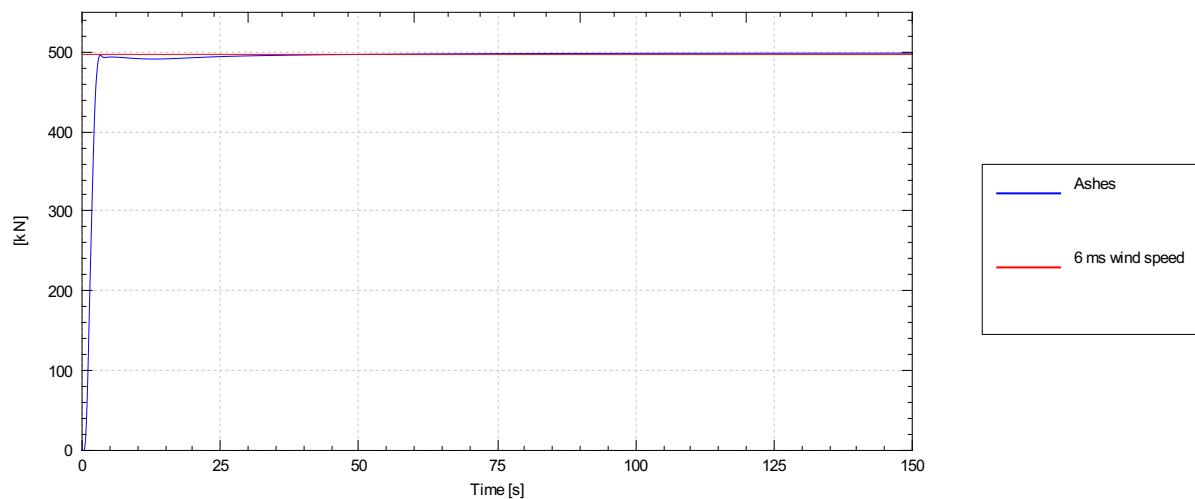
Load case: 6 ms wind speed

Sensor Rotor

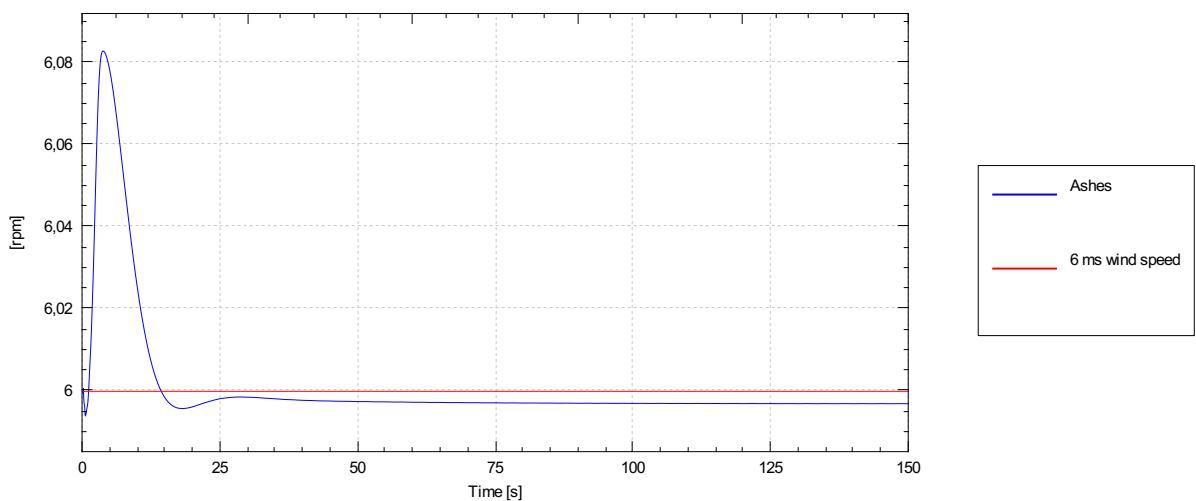
Power (aero)



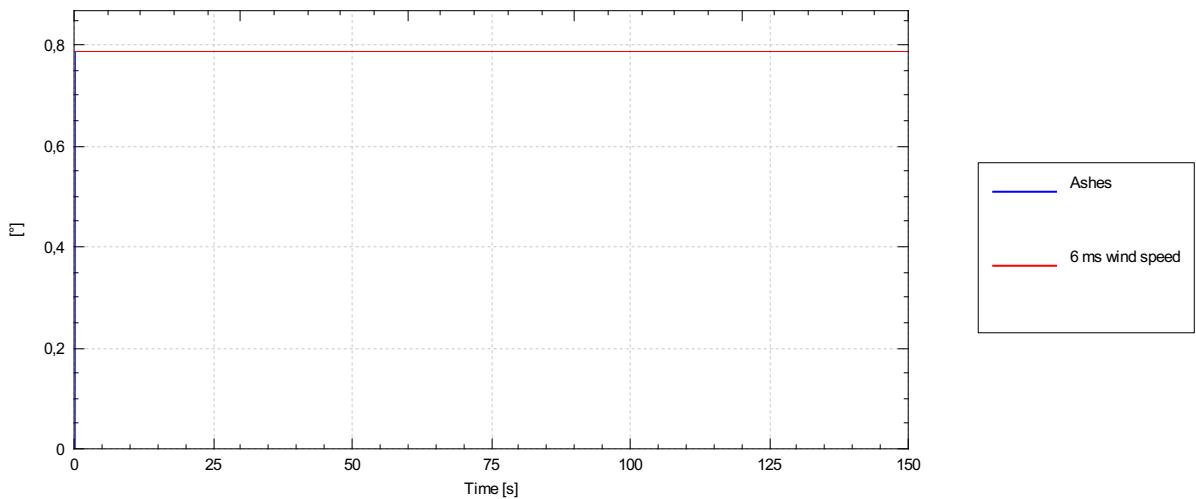
Thrust (aero)



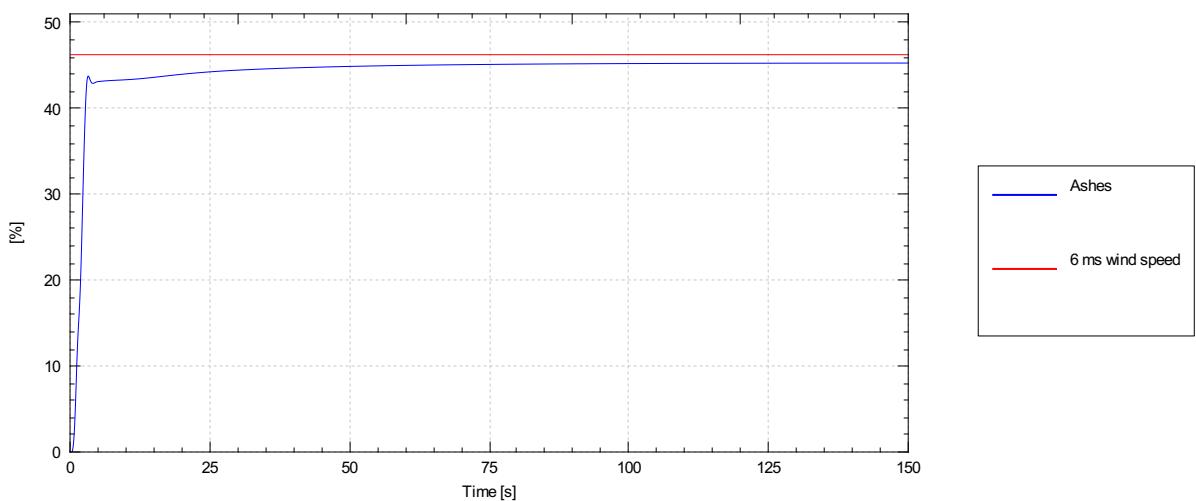
RPM



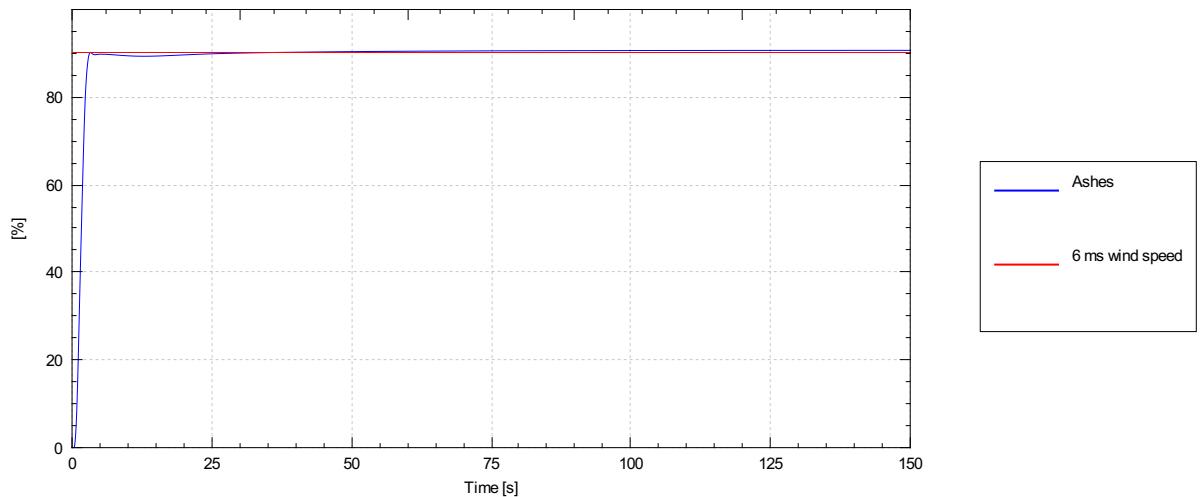
Demanded collective pitch angle



Power coef. (CP)



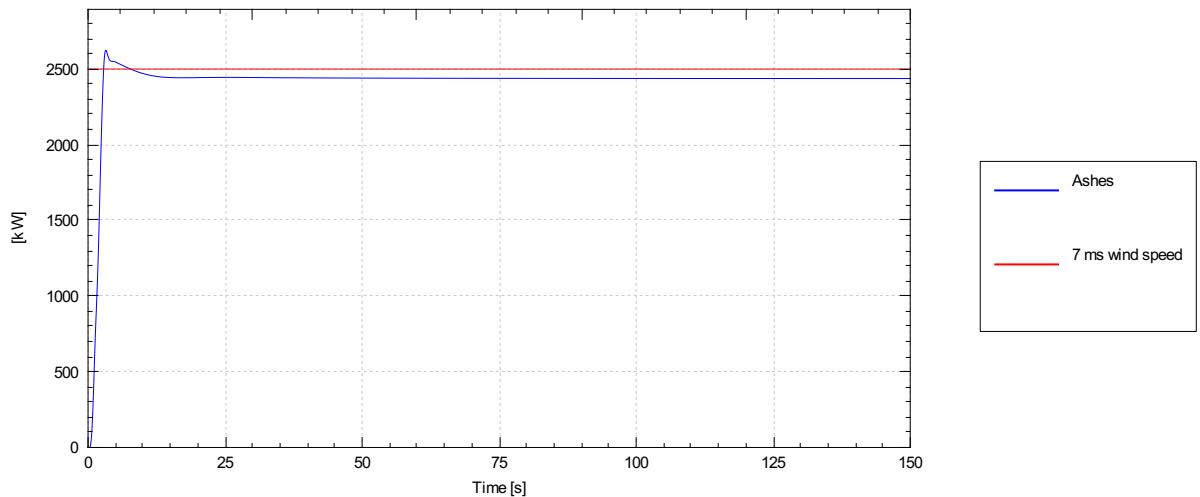
Thrust coef. (CT)



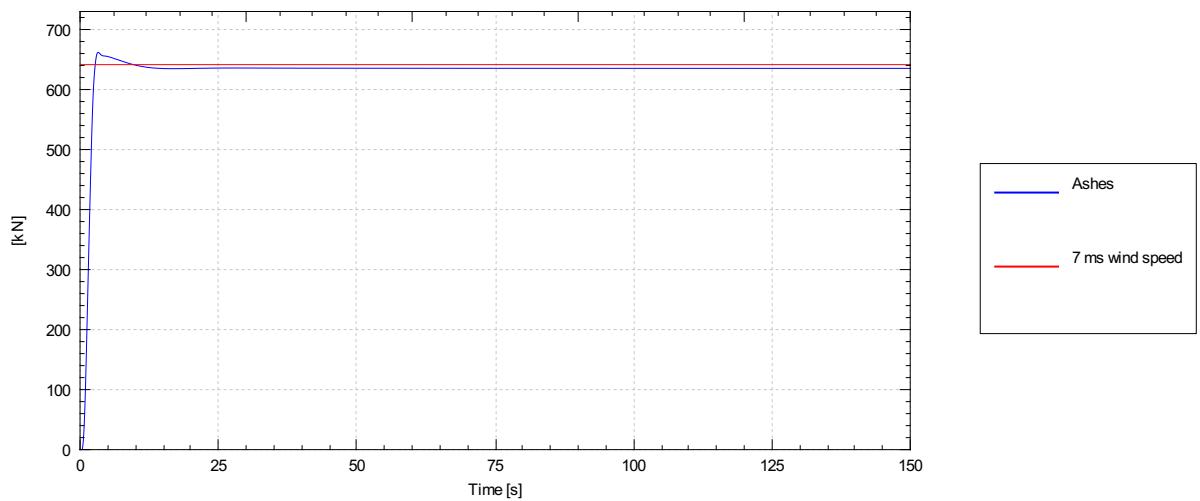
Load case: 7 ms wind speed

Sensor Rotor

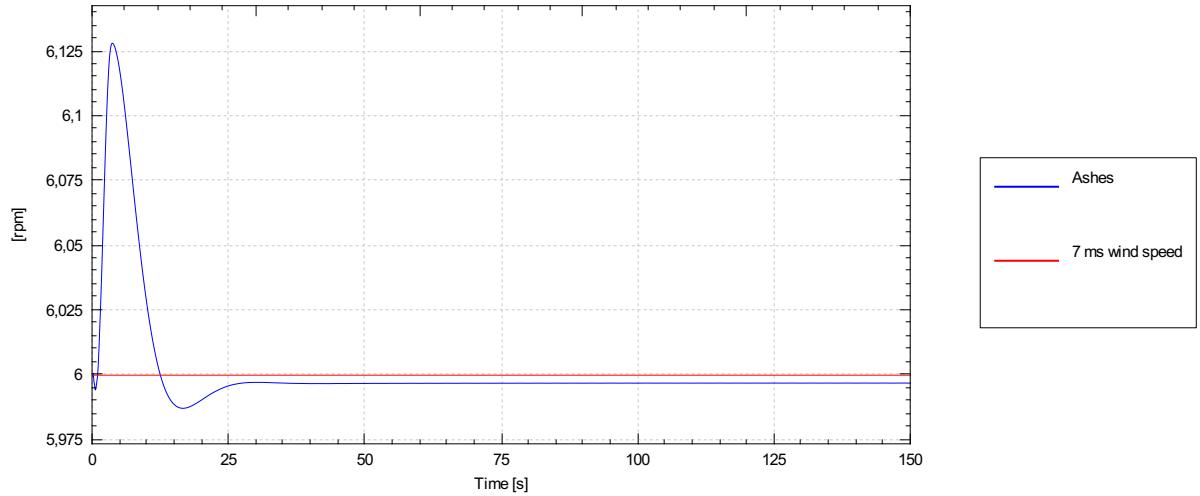
Power (aero)



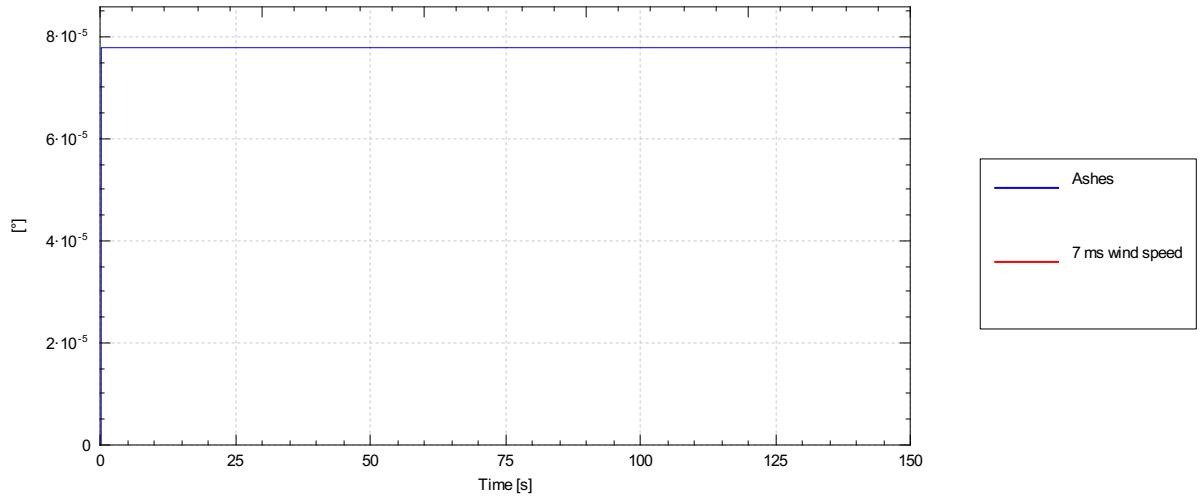
Thrust (aero)



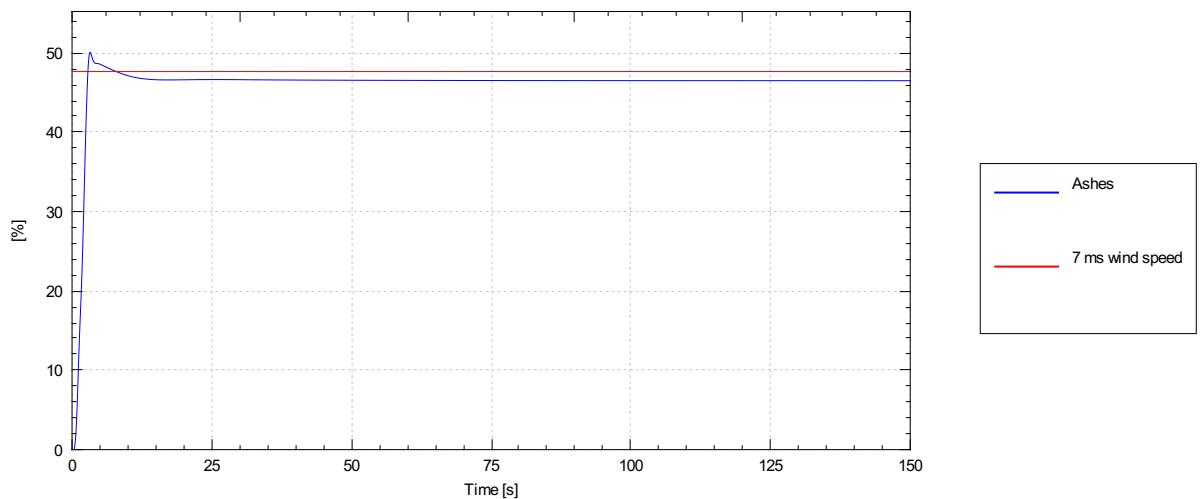
RPM



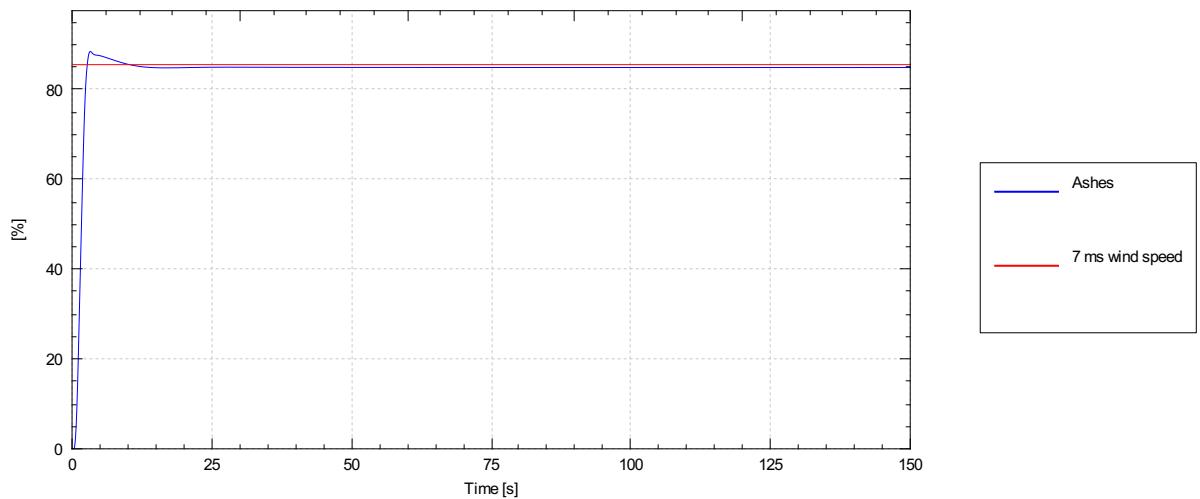
Demanded collective pitch angle



Power coef. (CP)



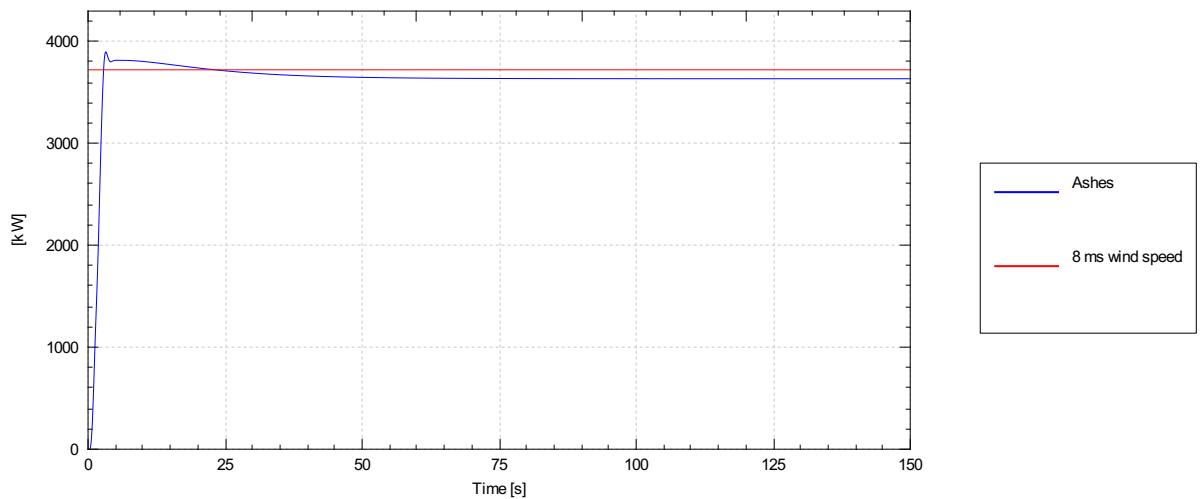
Thrust coef. (CT)



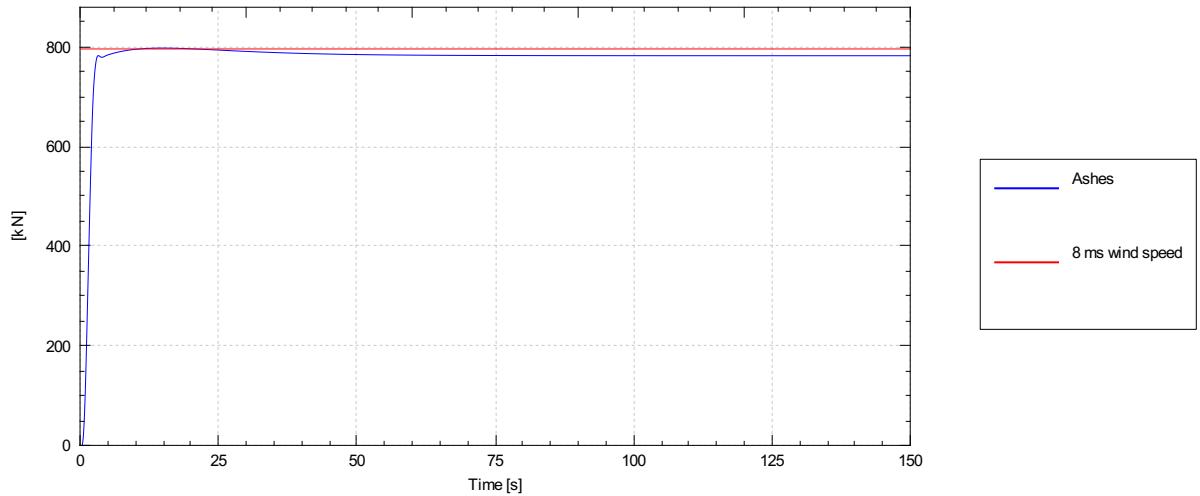
Load case: 8 ms wind speed

Sensor Rotor

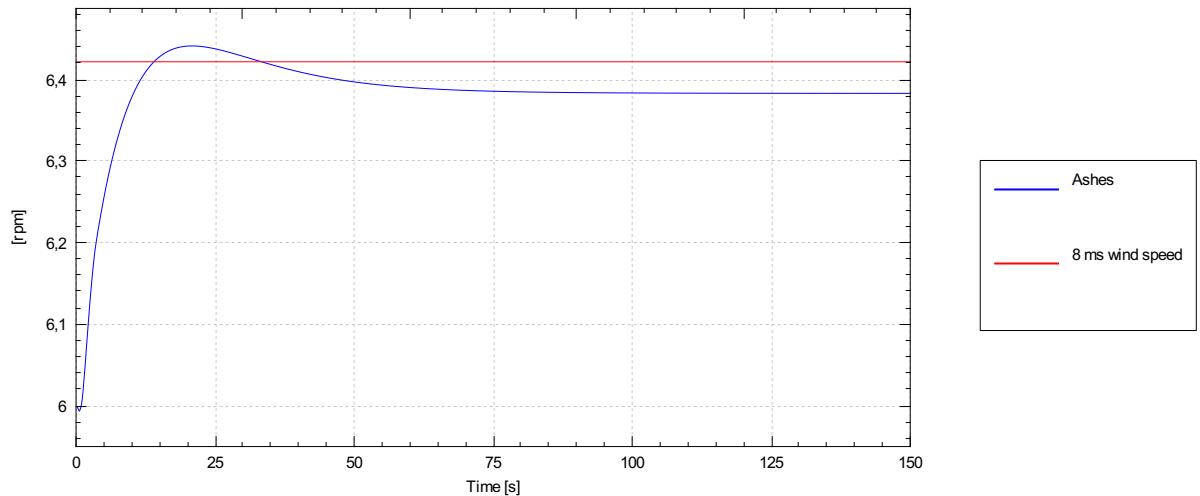
Power (aero)



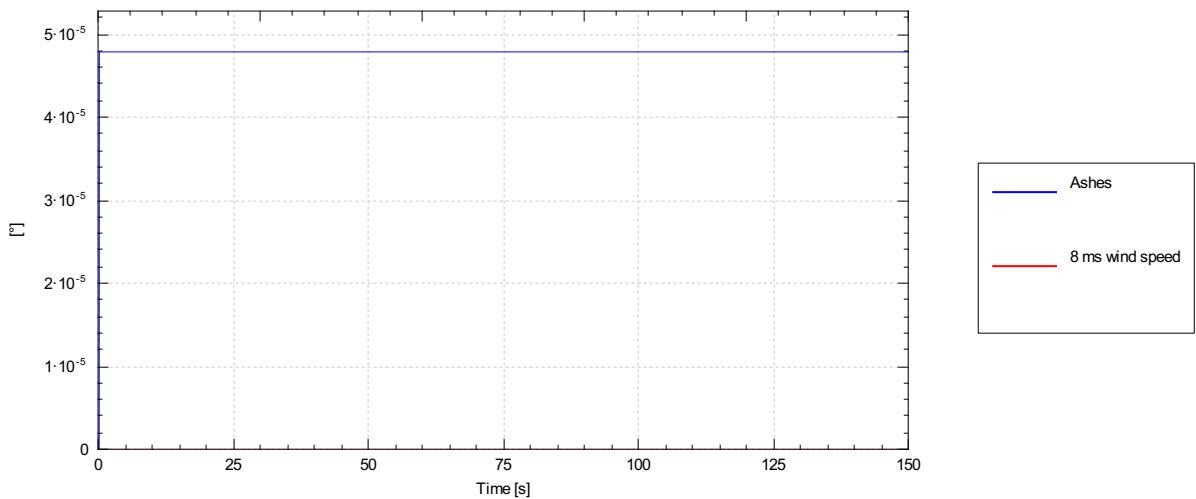
Thrust (aero)



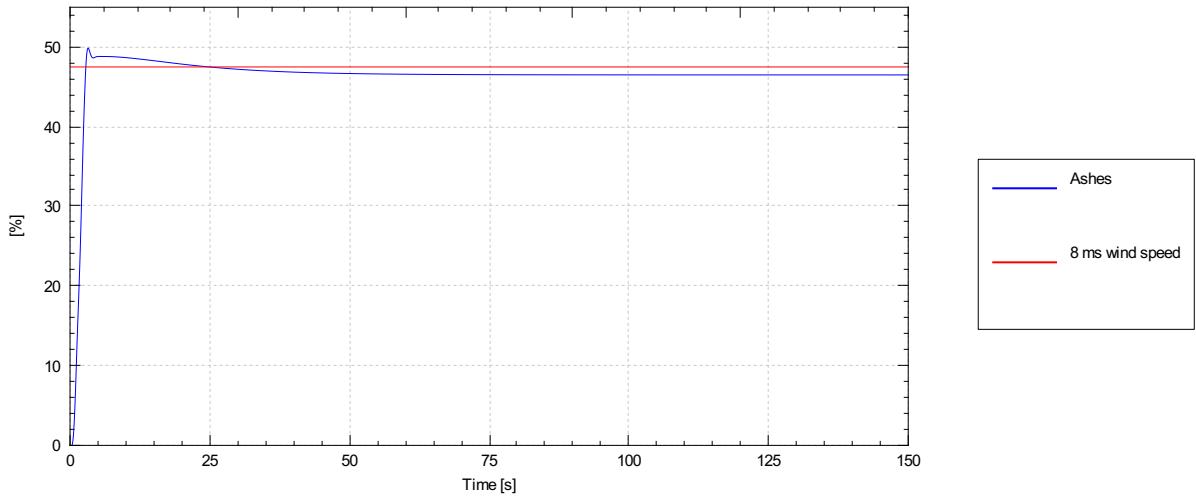
RPM



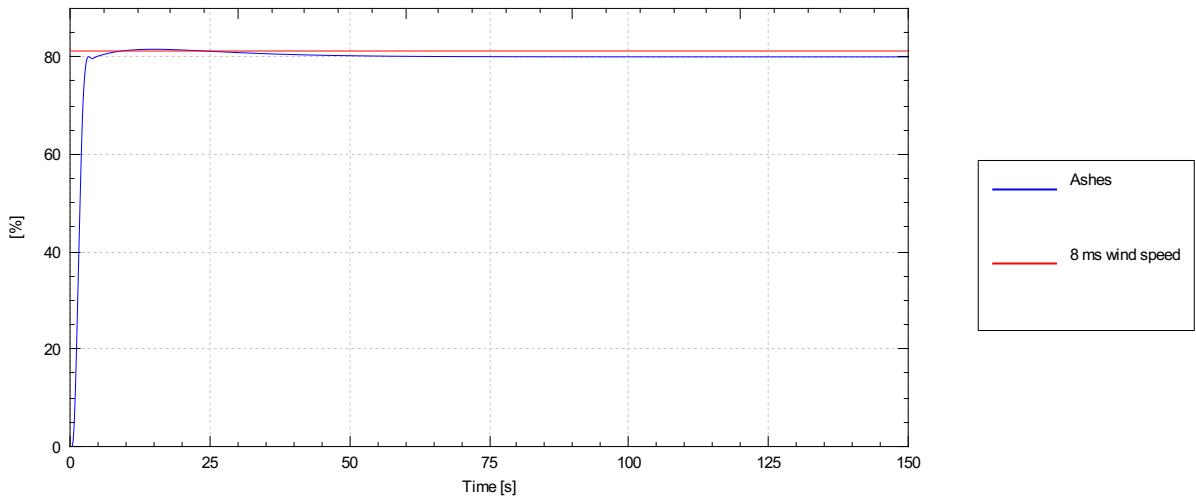
Demanded collective pitch angle



Power coef. (CP)



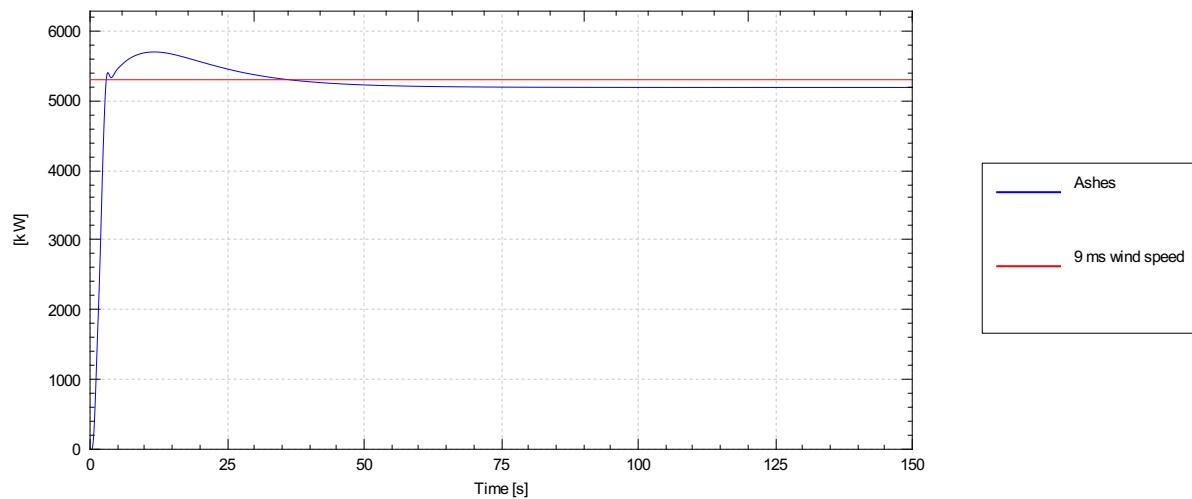
Thrust coef. (CT)



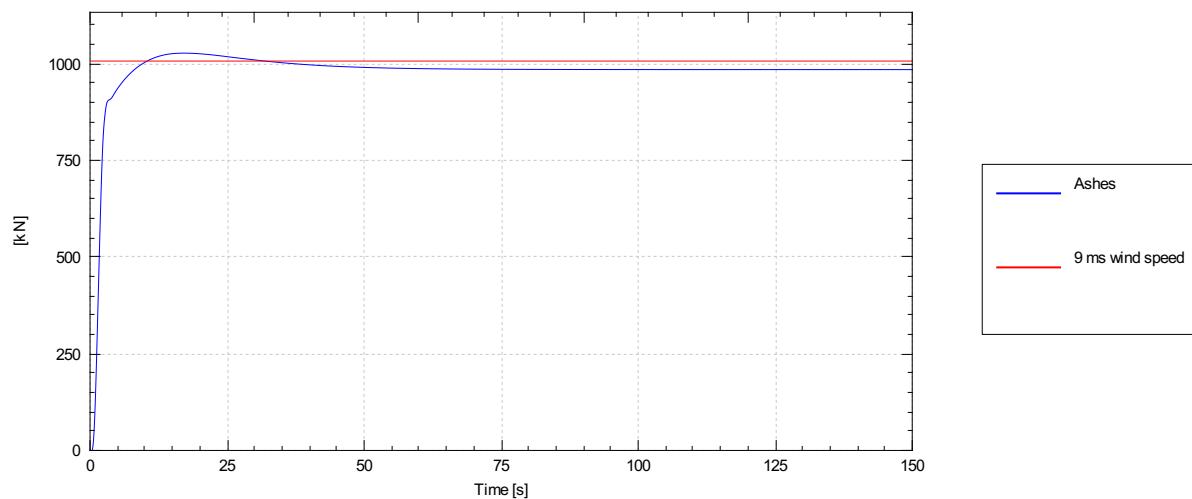
Load case: 9 ms wind speed

Sensor Rotor

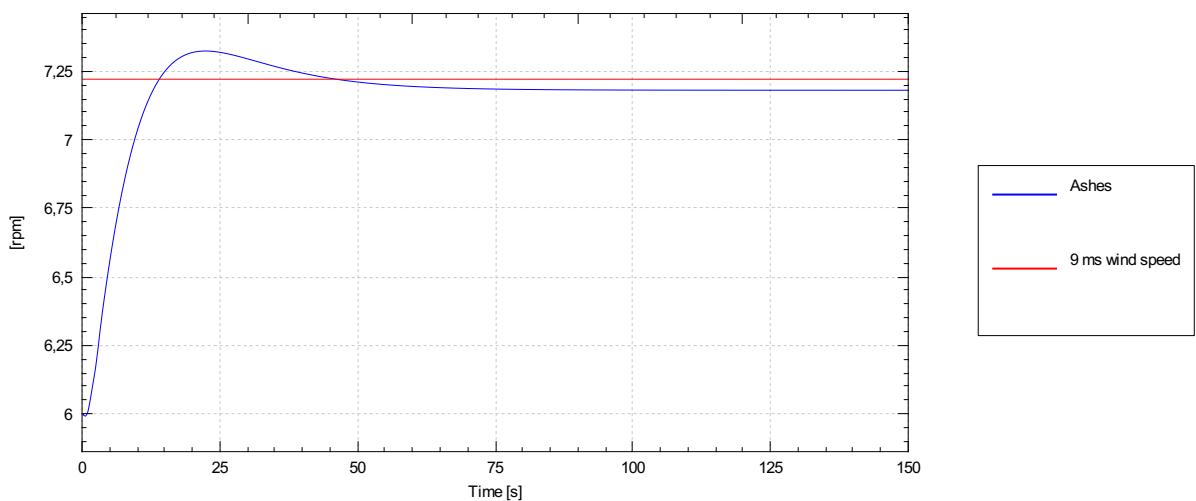
Power (aero)



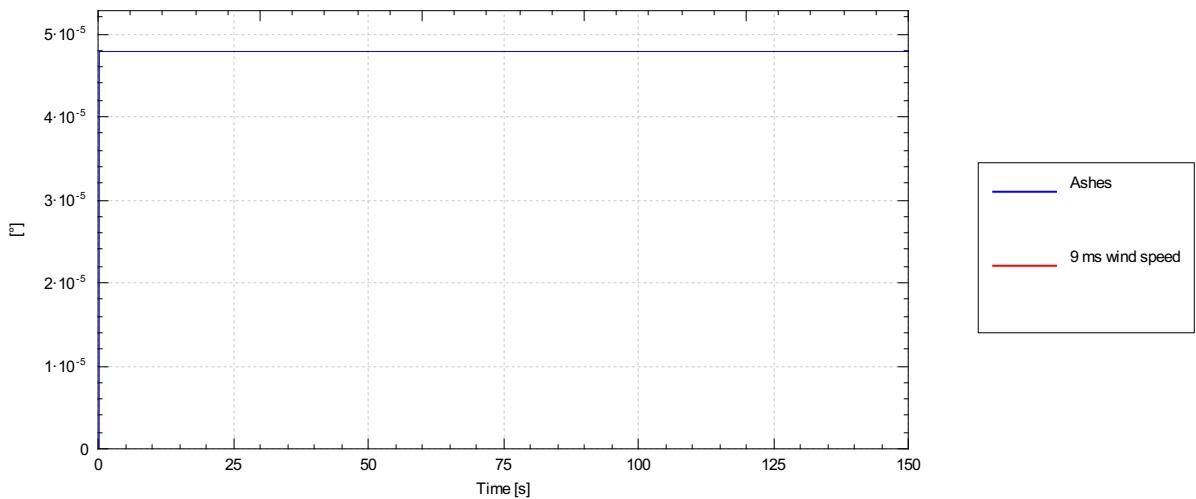
Thrust (aero)



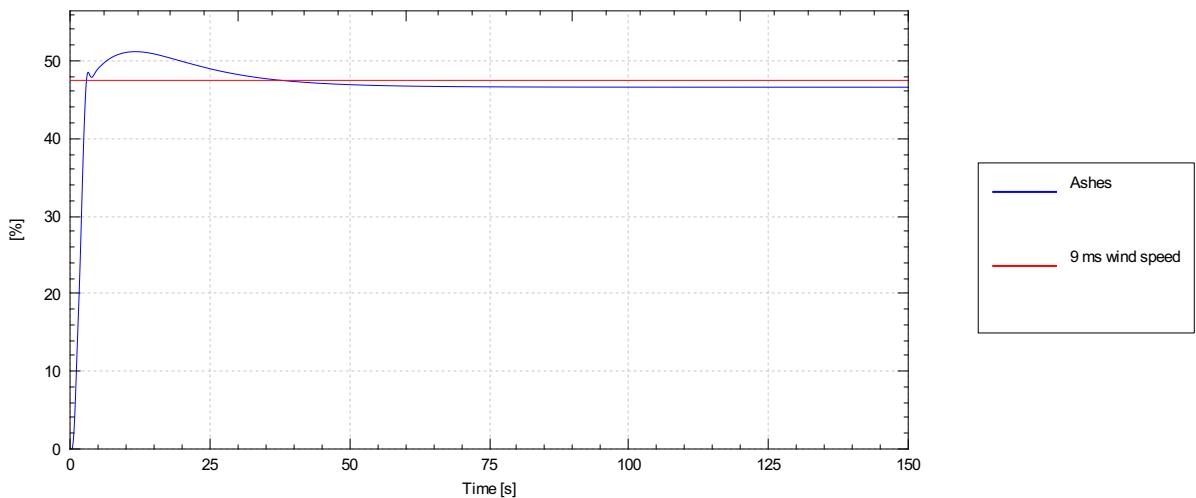
RPM



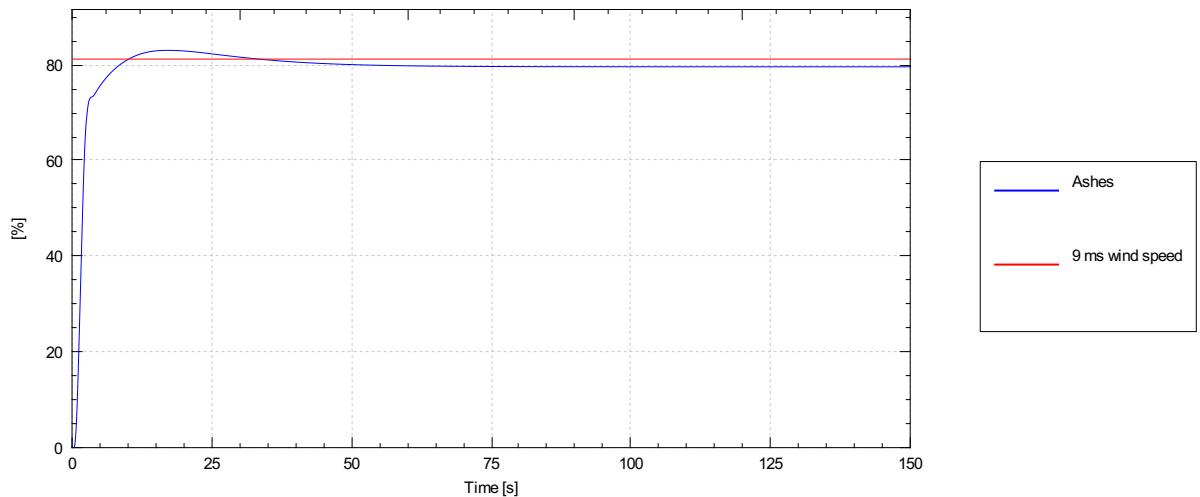
Demanded collective pitch angle



Power coef. (CP)



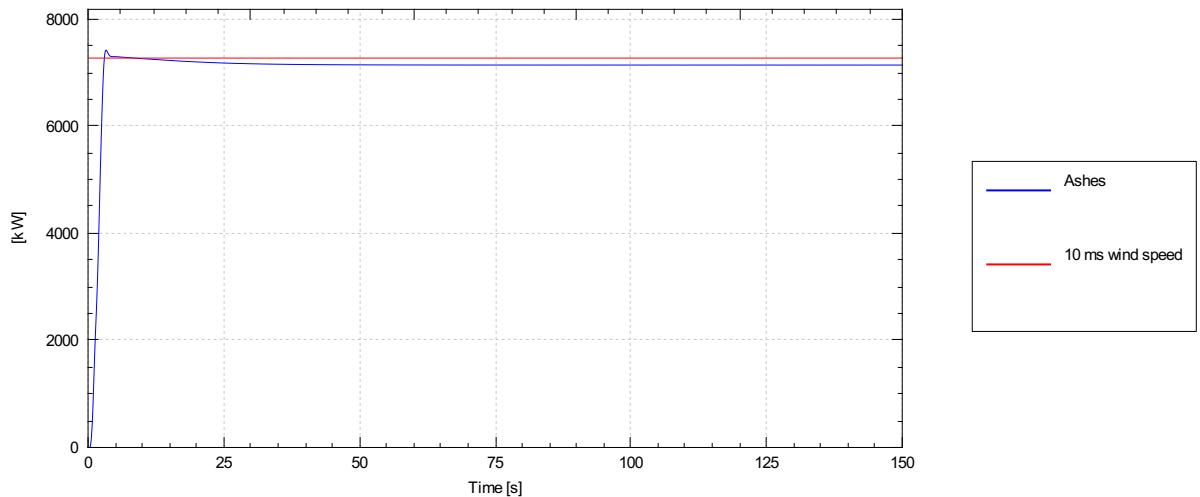
Thrust coef. (CT)



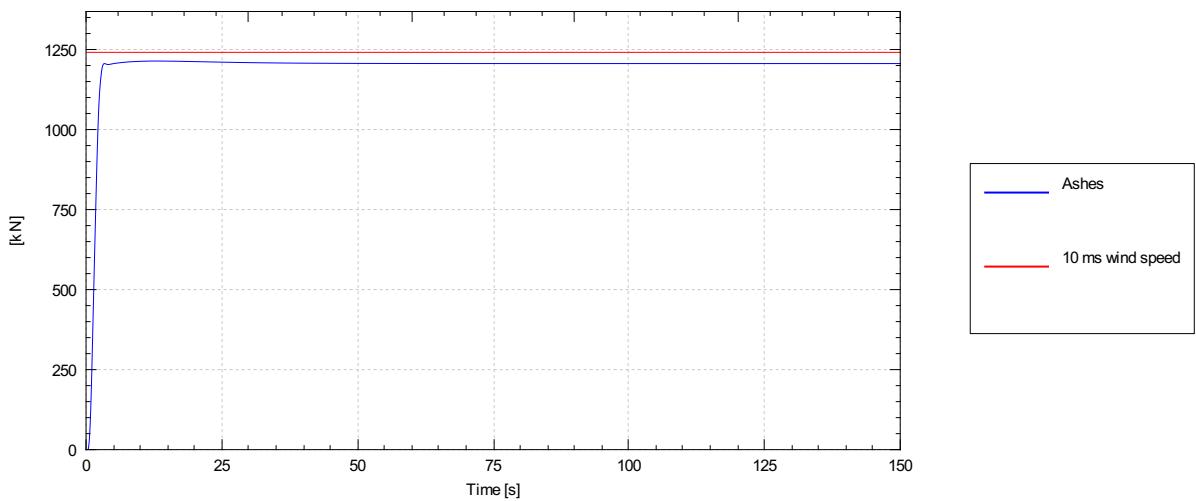
Load case: 10 ms wind speed

Sensor Rotor

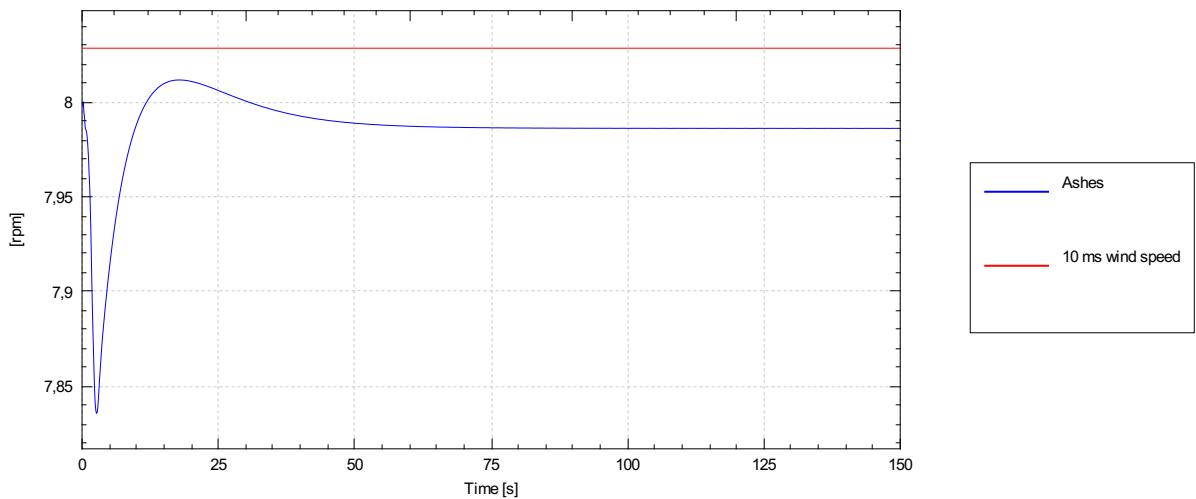
Power (aero)



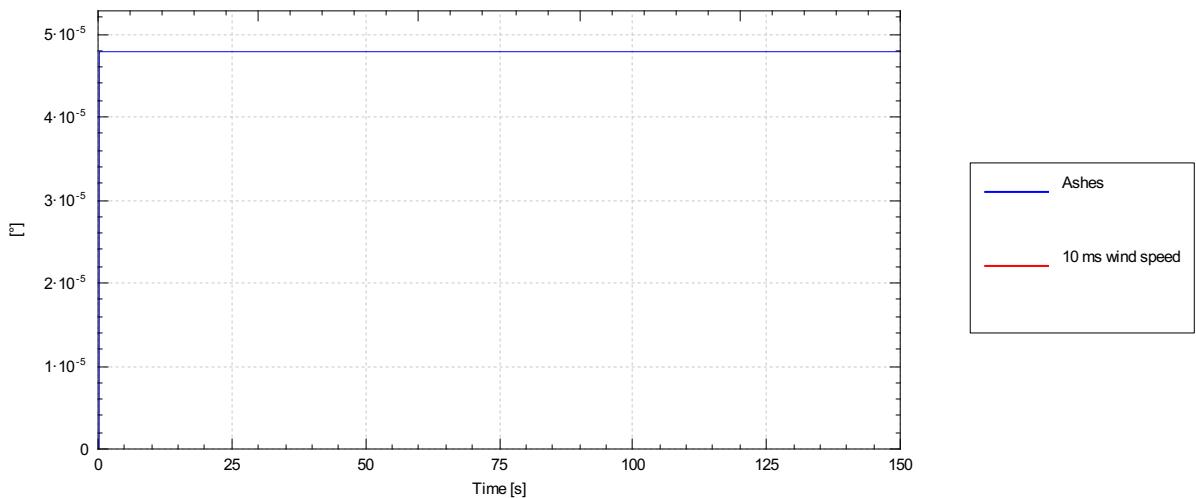
Thrust (aero)



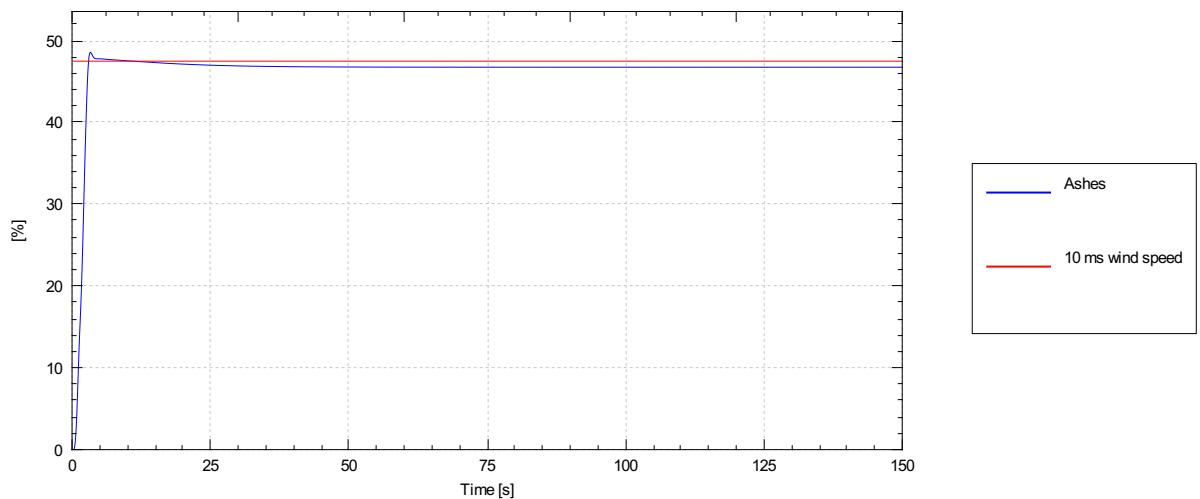
RPM



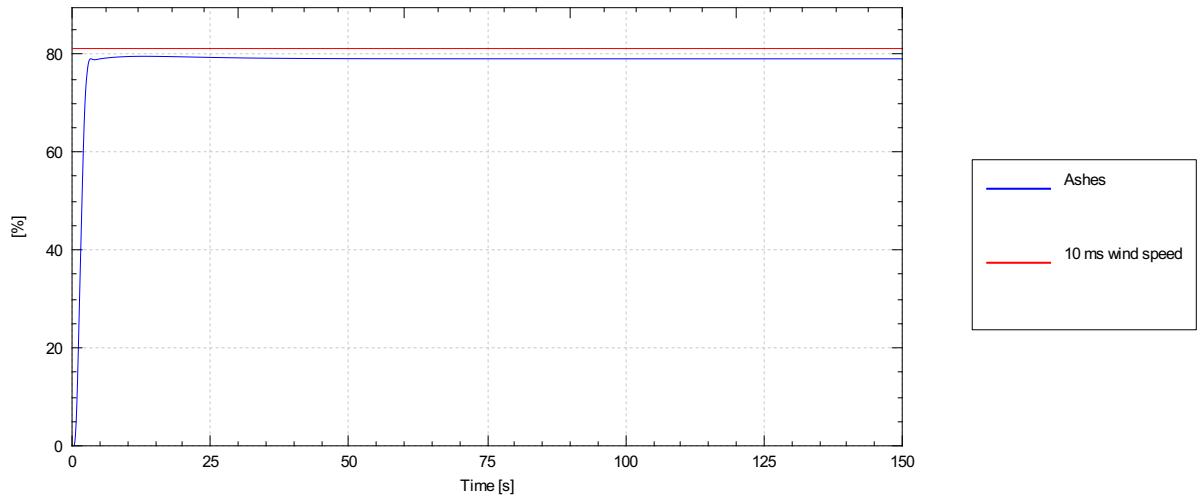
Demanded collective pitch angle



Power coef. (CP)



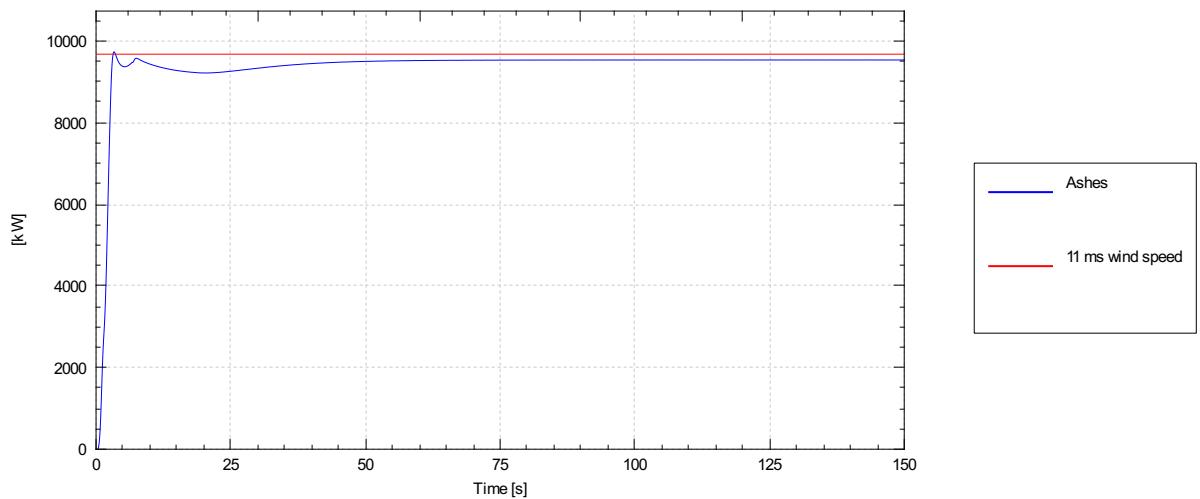
Thrust coef. (CT)



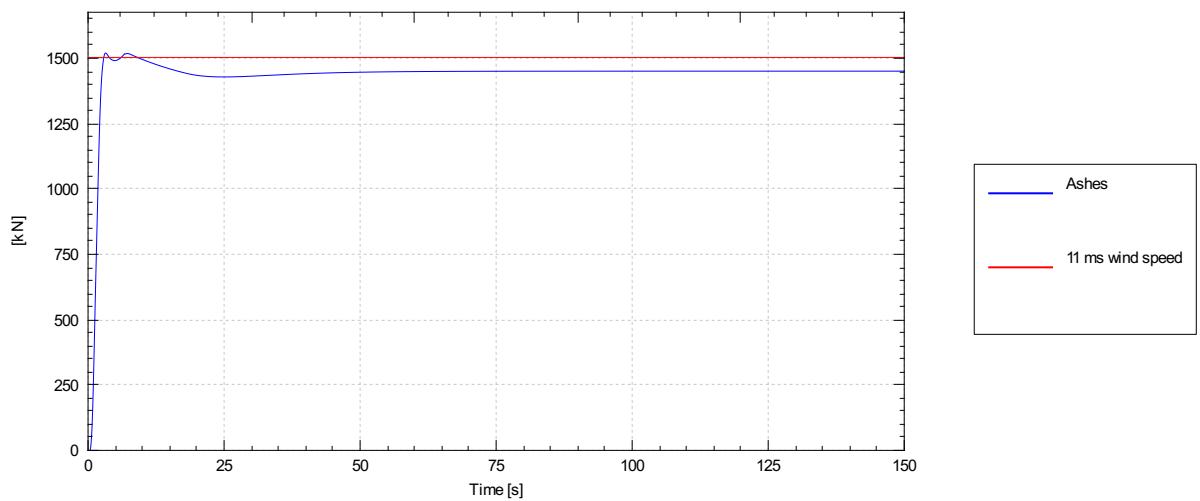
Load case: 11 ms wind speed

Sensor Rotor

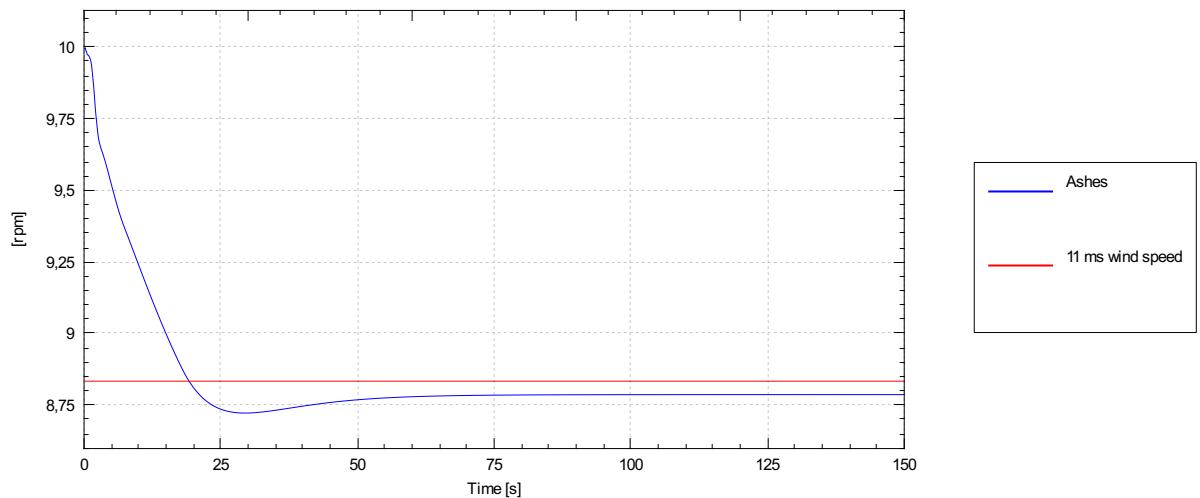
Power (aero)



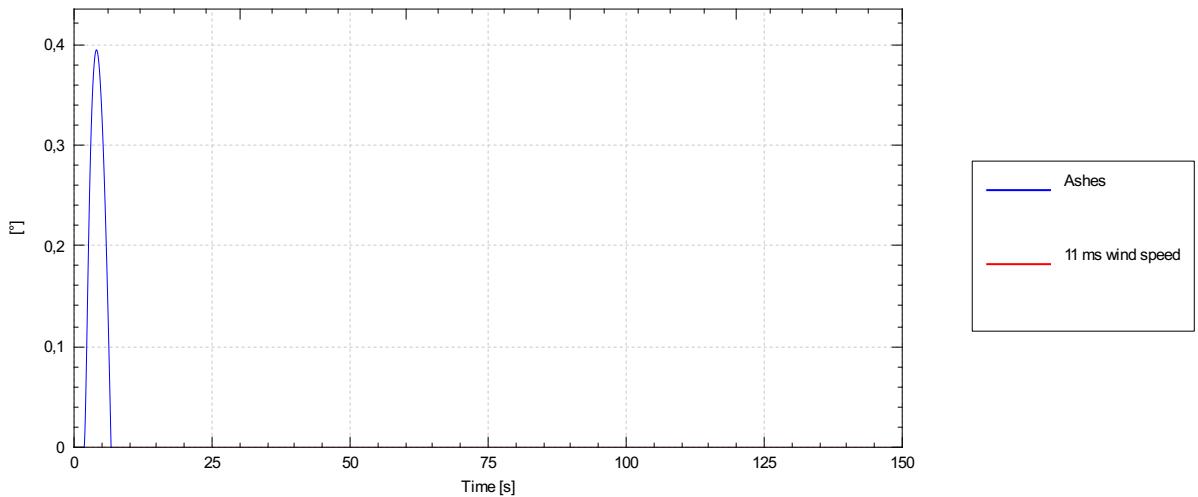
Thrust (aero)



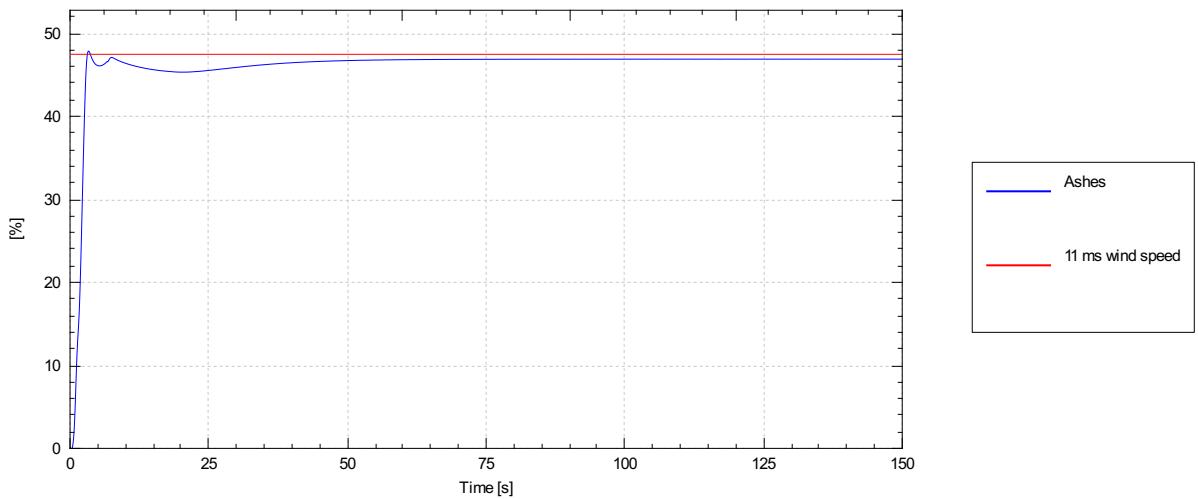
RPM



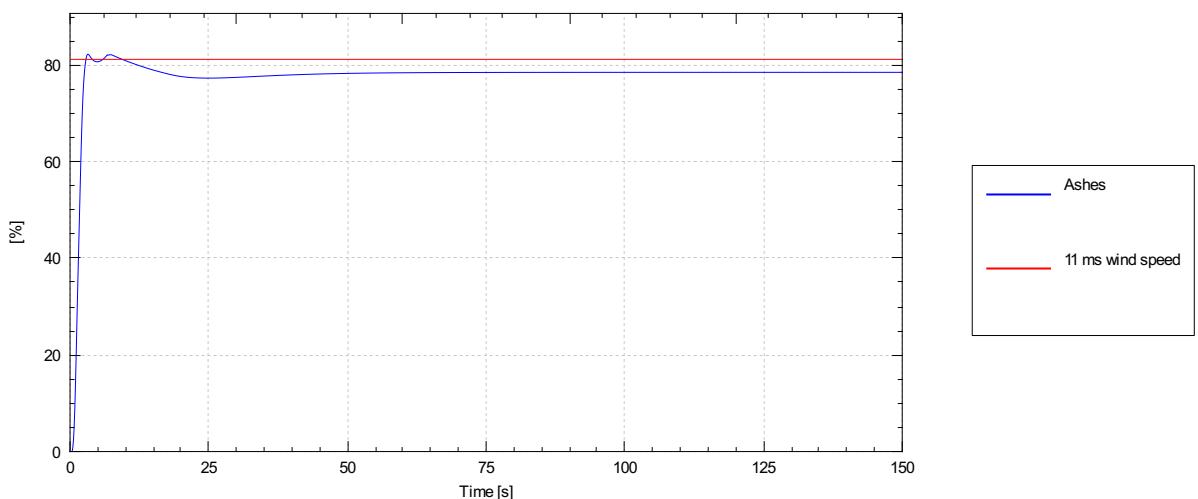
Demanded collective pitch angle



Power coef. (CP)



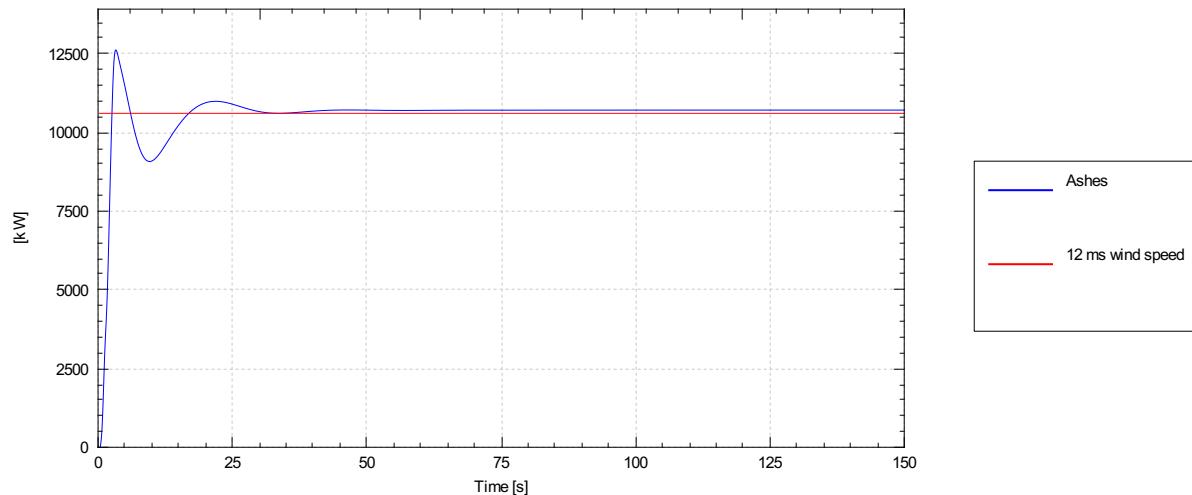
Thrust coef. (CT)



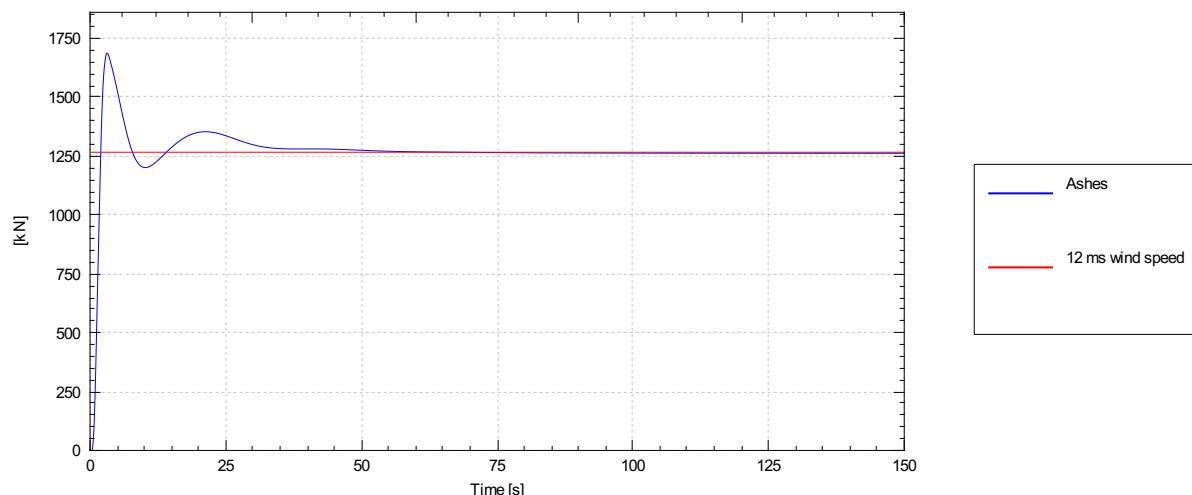
Load case: 12 ms wind speed

Sensor Rotor

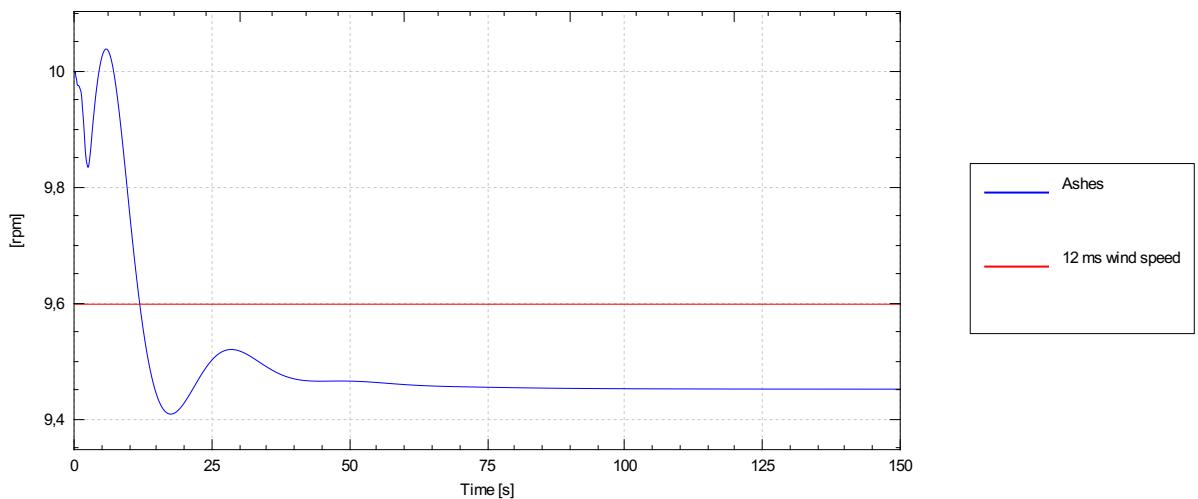
Power (aero)



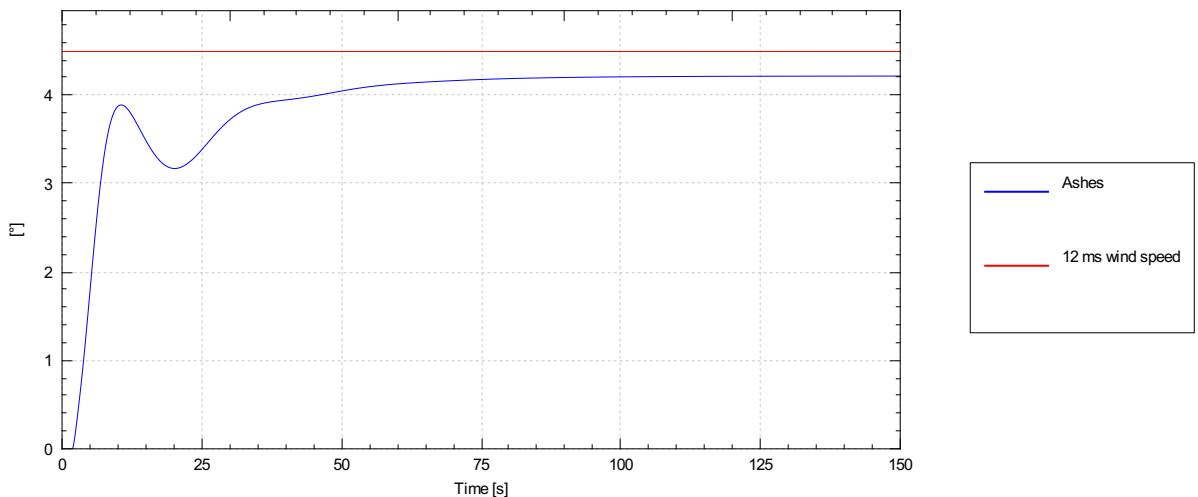
Thrust (aero)



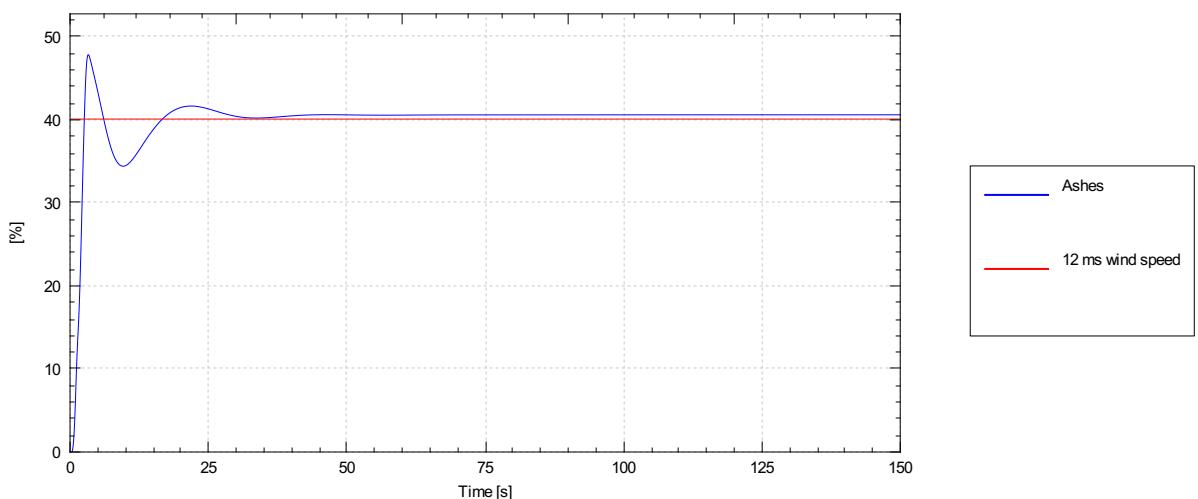
RPM



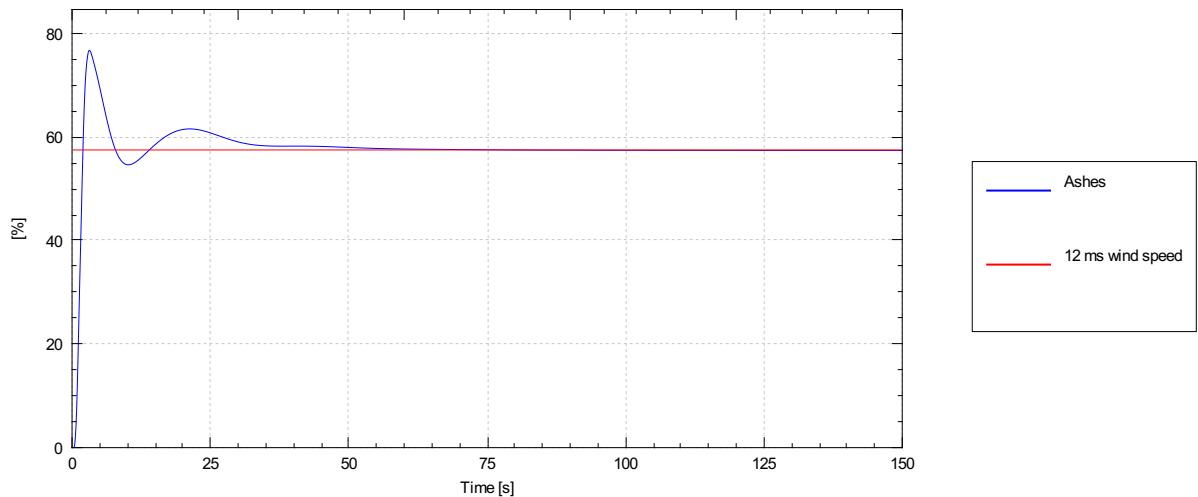
Demanded collective pitch angle



Power coef. (CP)



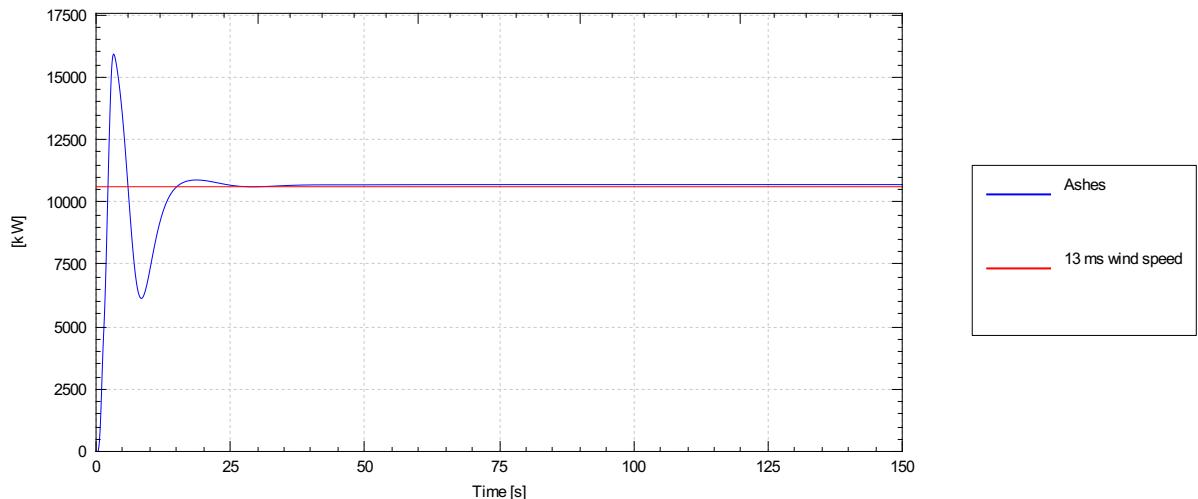
Thrust coef. (CT)



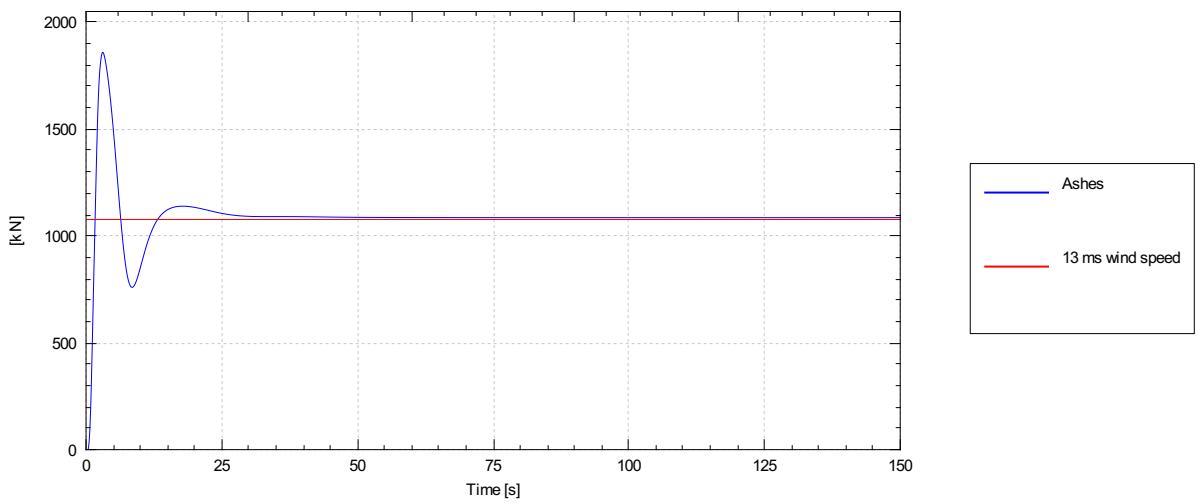
Load case: 13 ms wind speed

Sensor Rotor

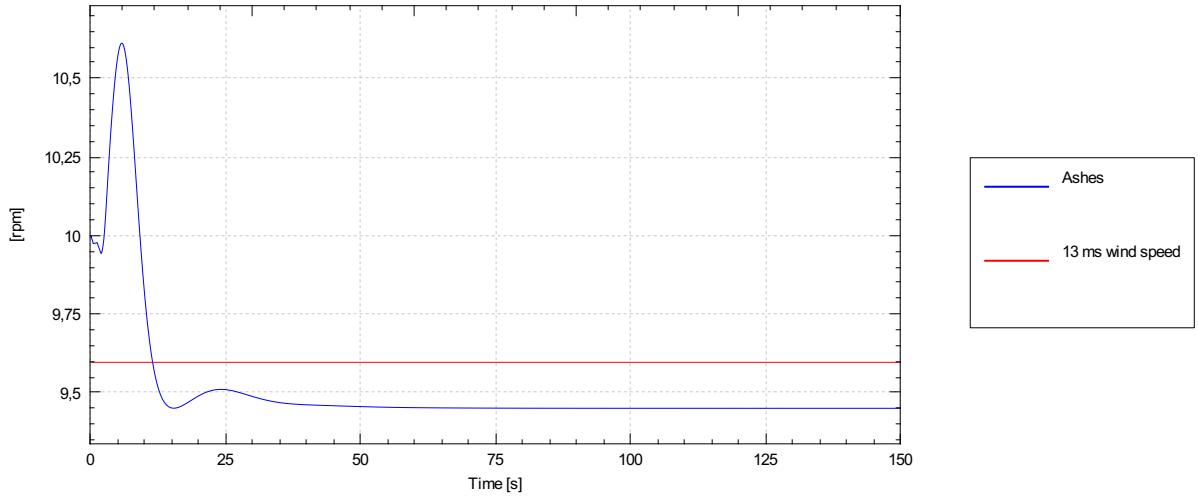
Power (aero)



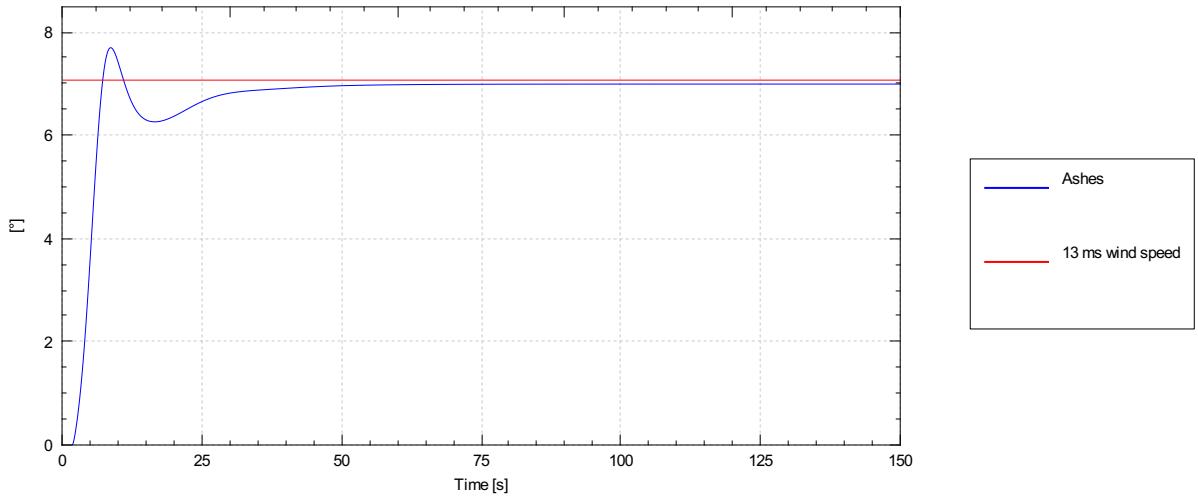
Thrust (aero)



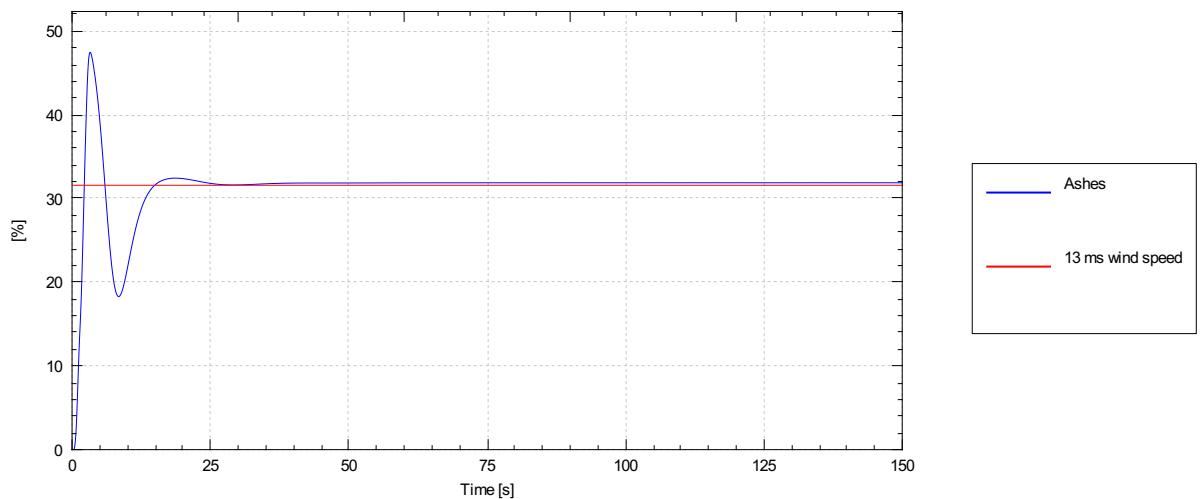
RPM



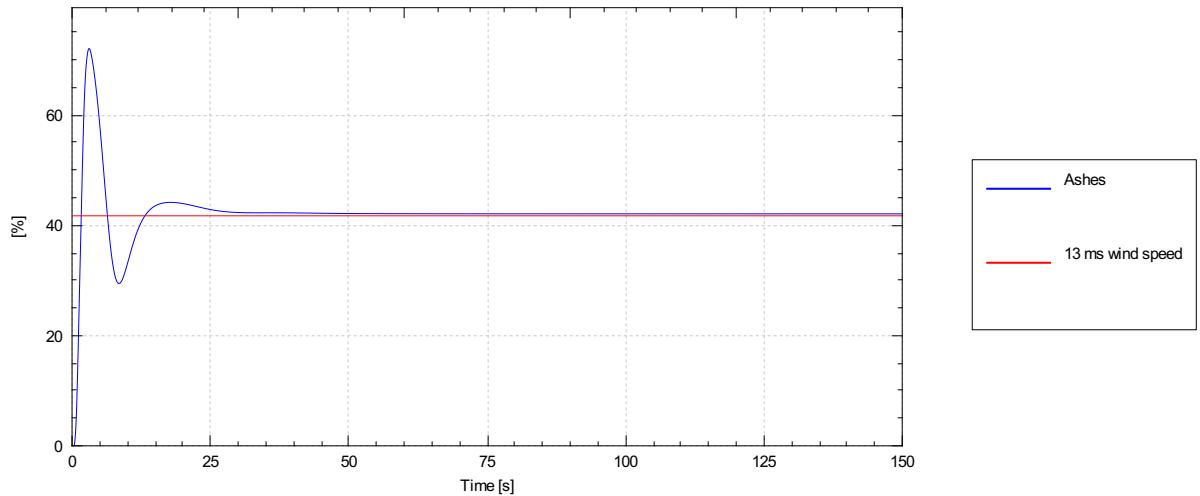
Demanded collective pitch angle



Power coef. (CP)



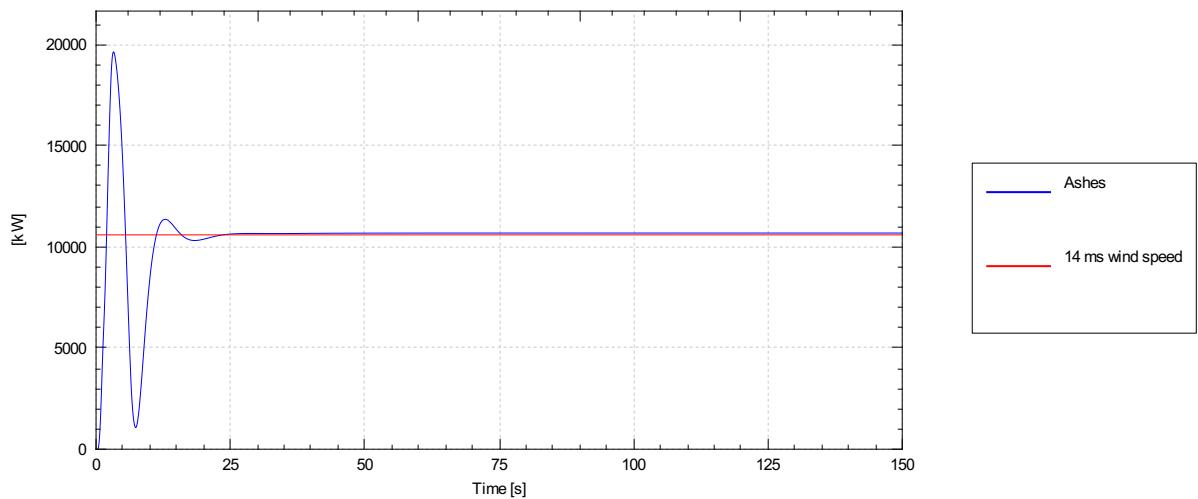
Thrust coef. (CT)



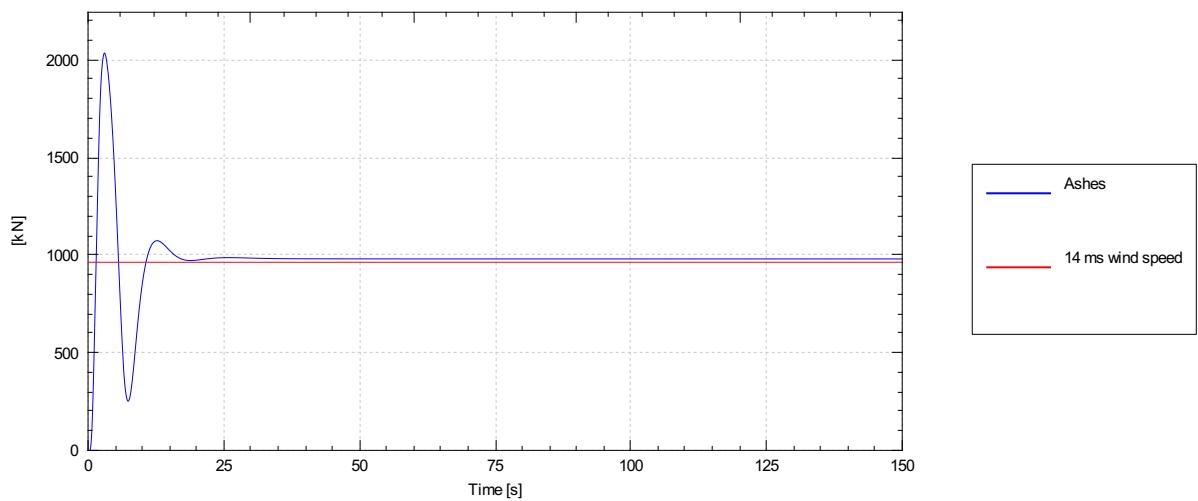
Load case: 14 ms wind speed

Sensor Rotor

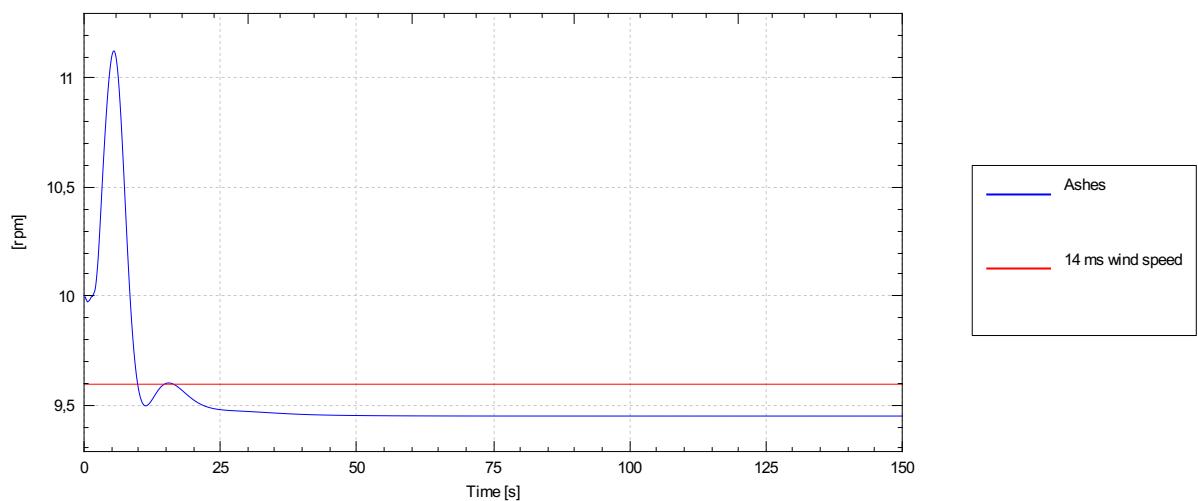
Power (aero)



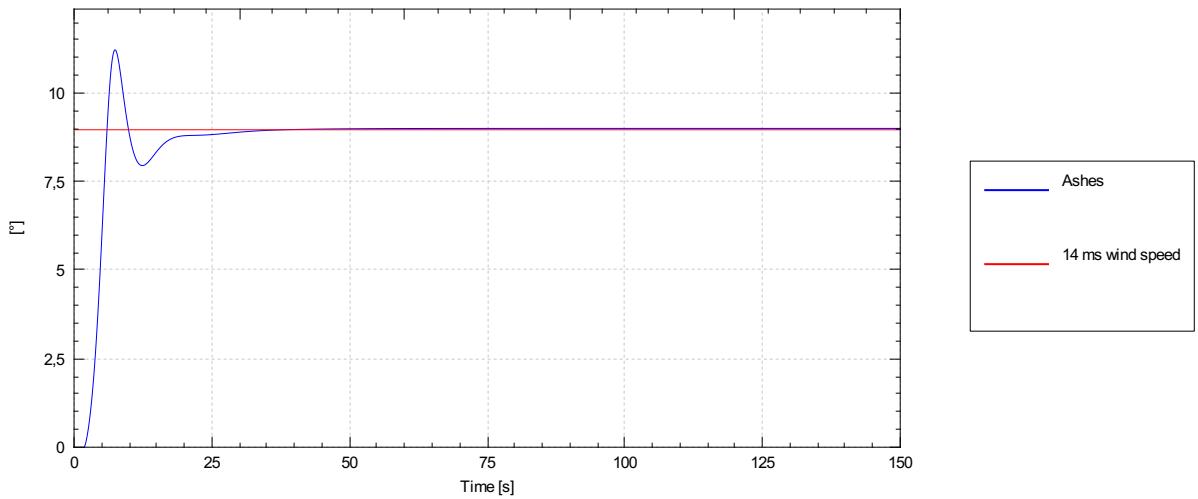
Thrust (aero)



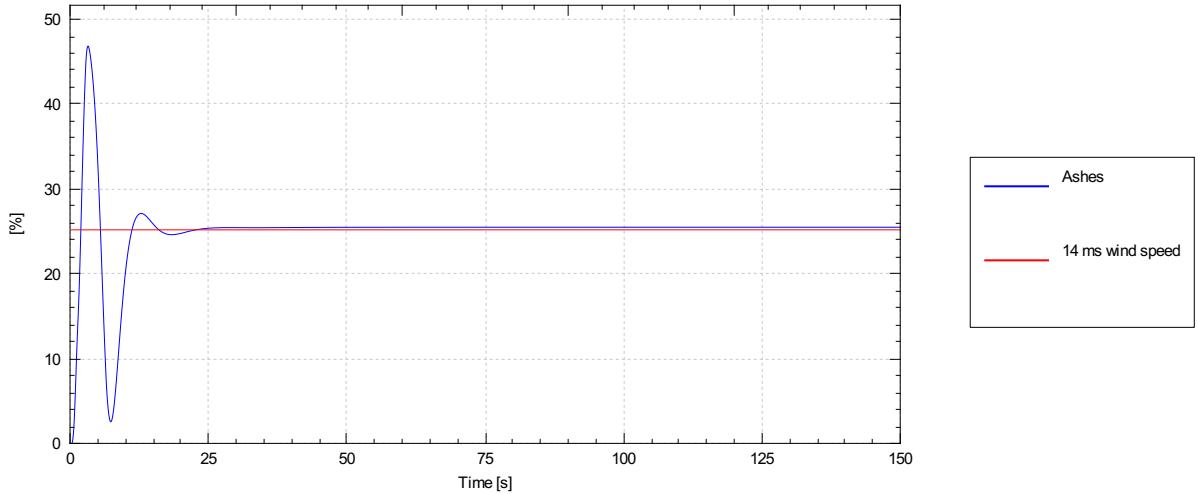
RPM



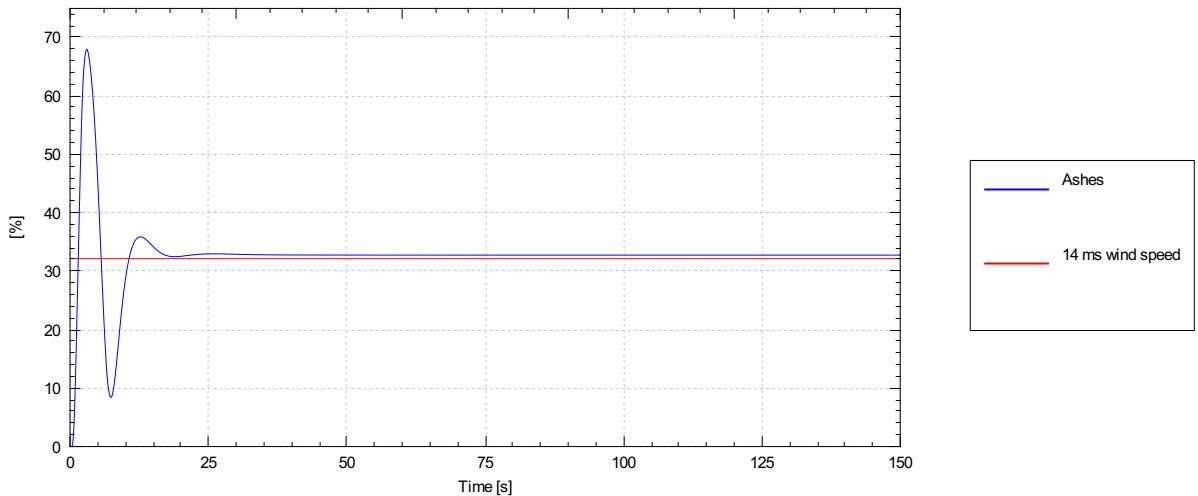
Demanded collective pitch angle



Power coef. (CP)

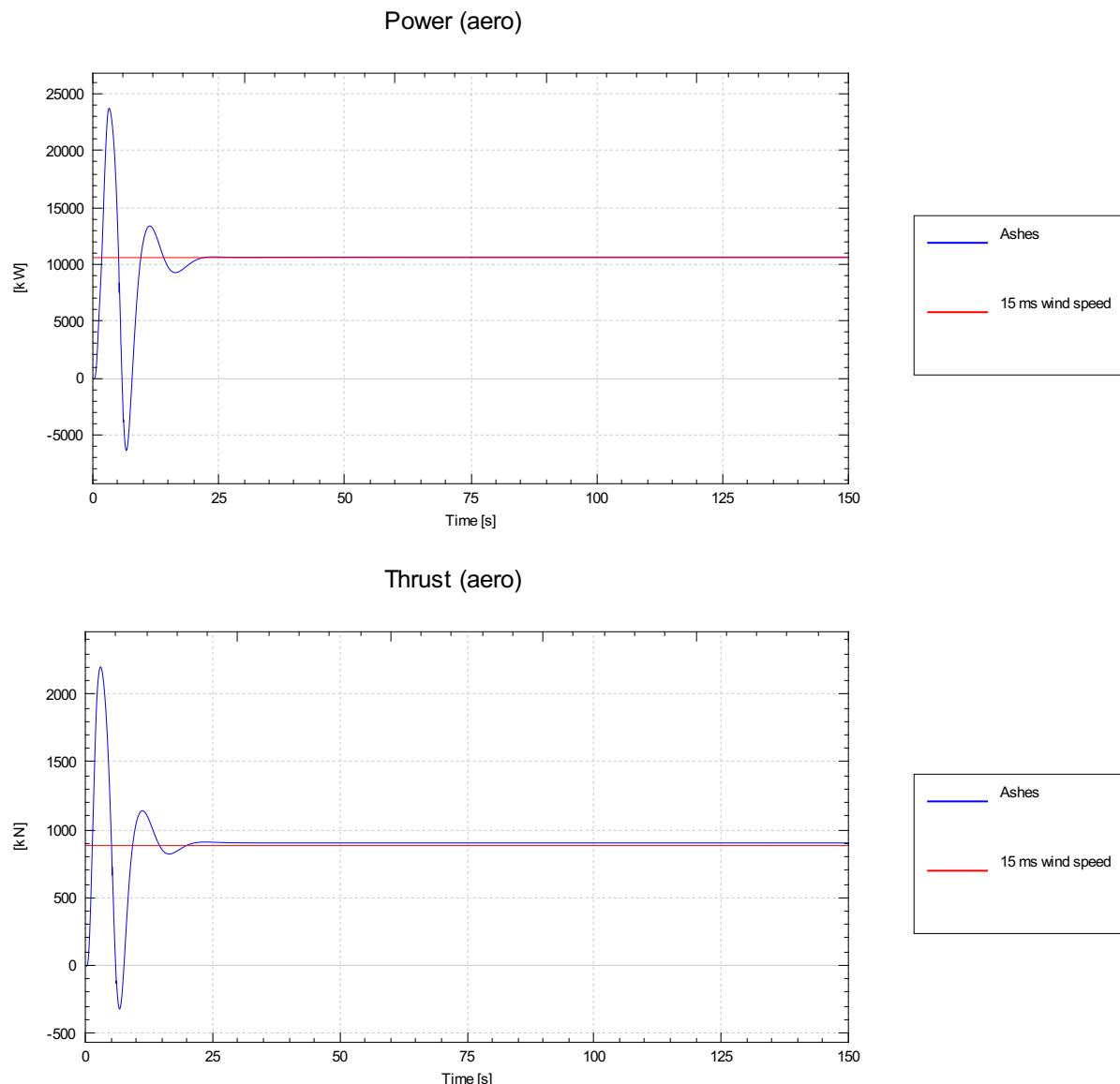


Thrust coef. (CT)

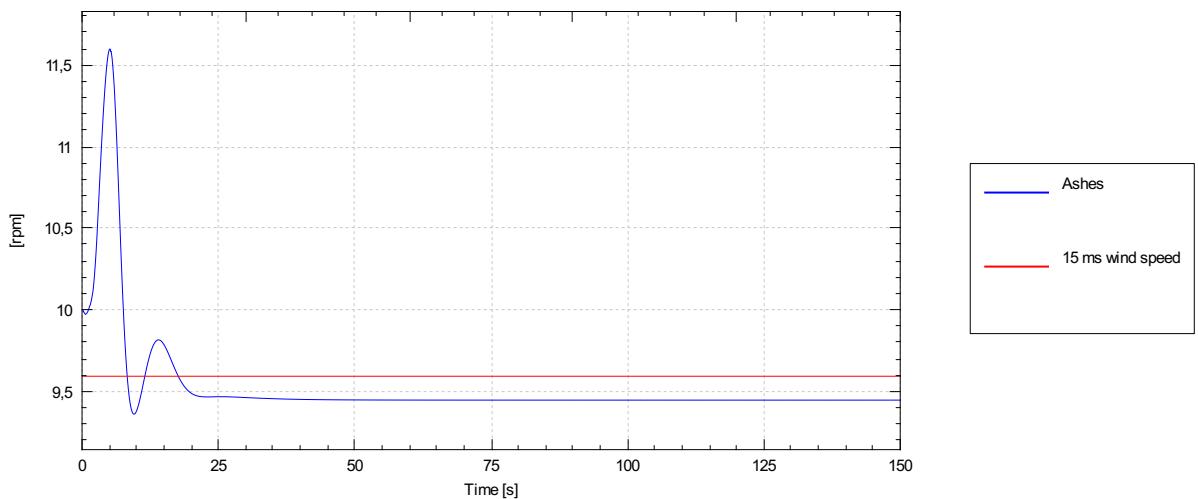


Load case: 15 ms wind speed

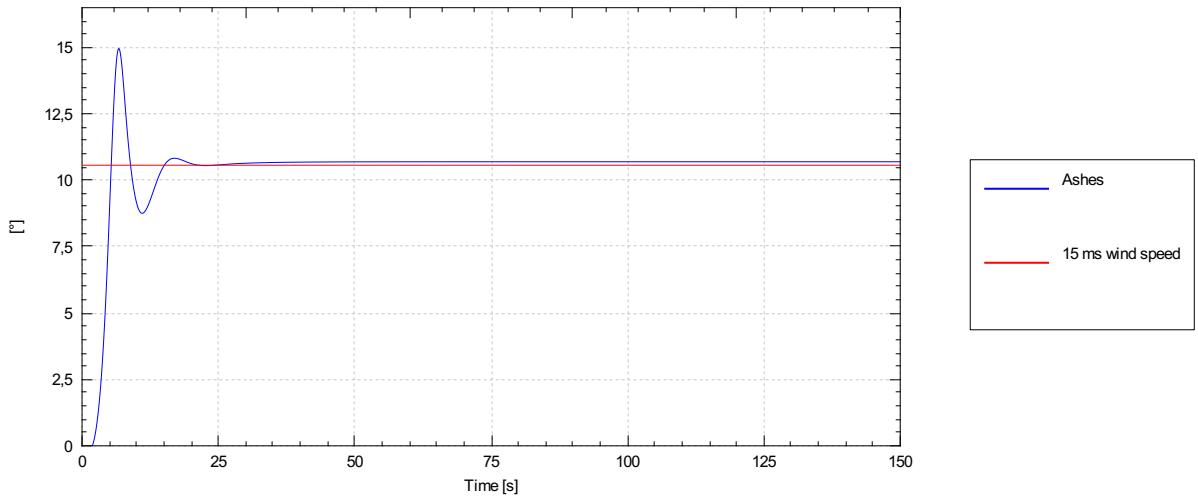
Sensor Rotor



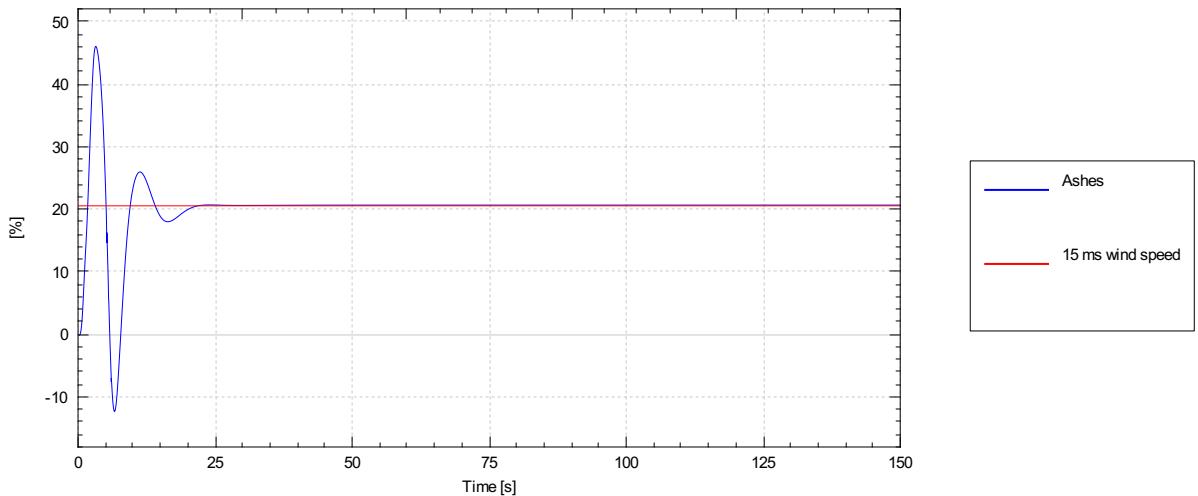
RPM



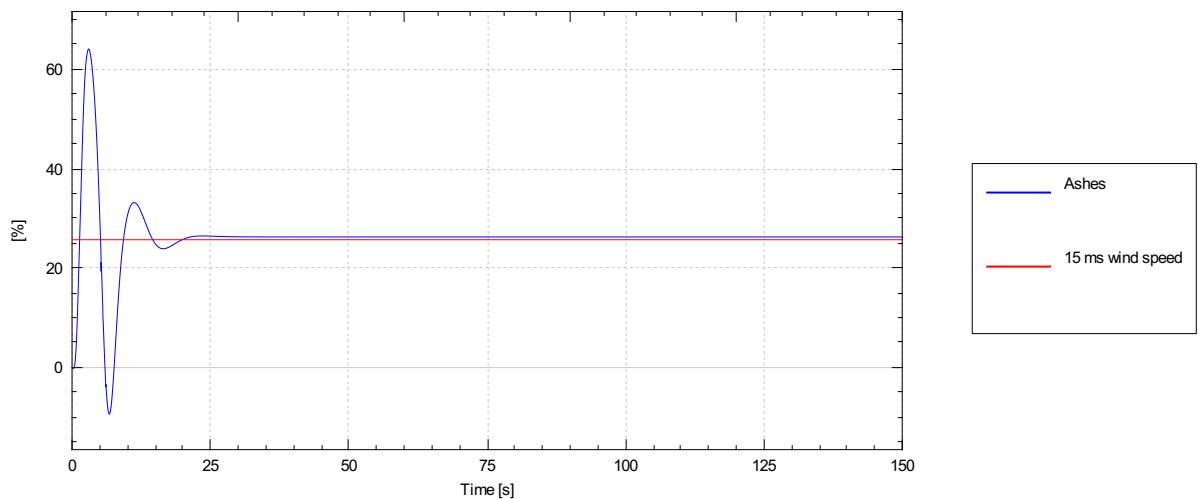
Demanded collective pitch angle



Power coef. (CP)



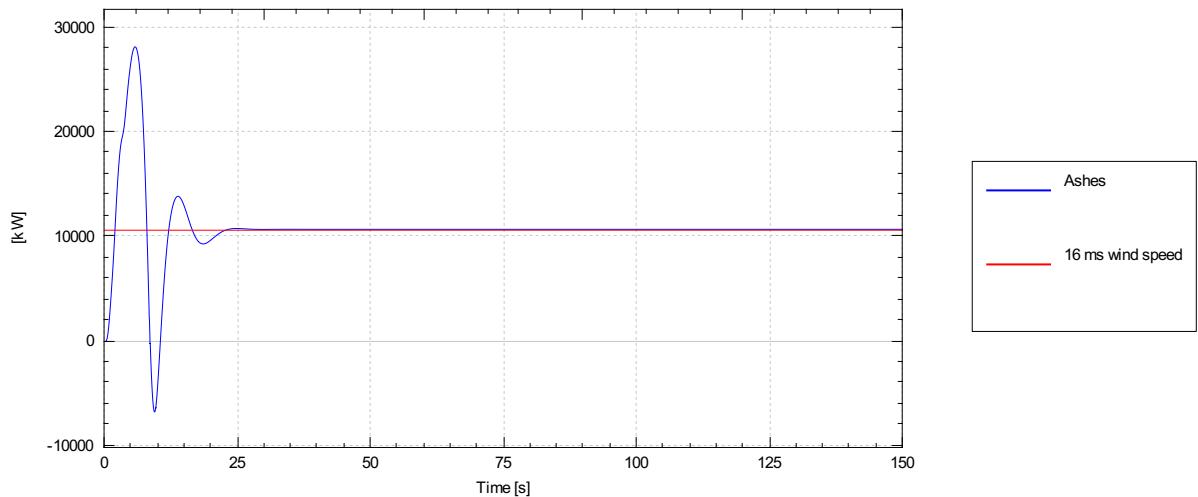
Thrust coef. (CT)



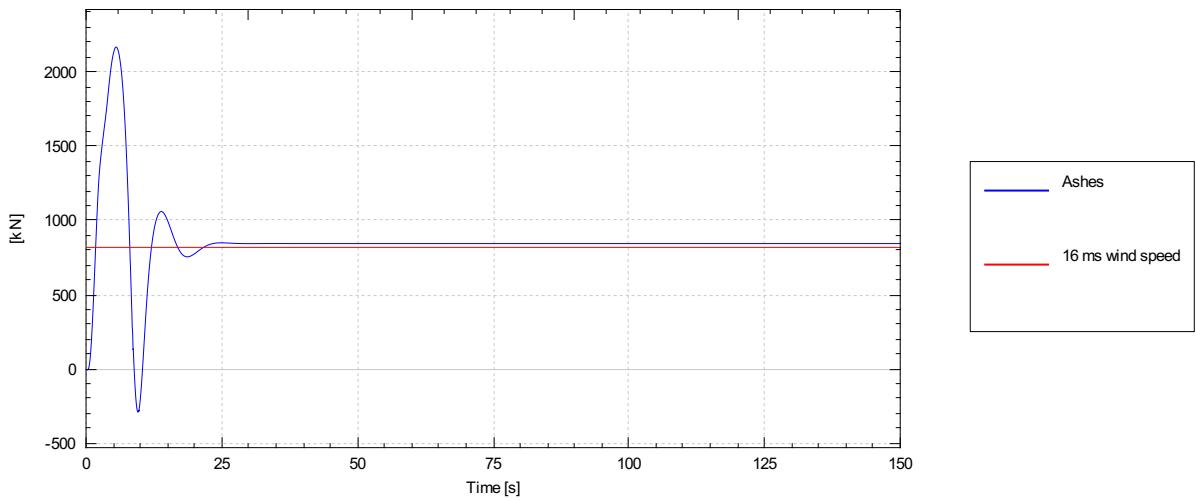
Load case: 16 ms wind speed

Sensor Rotor

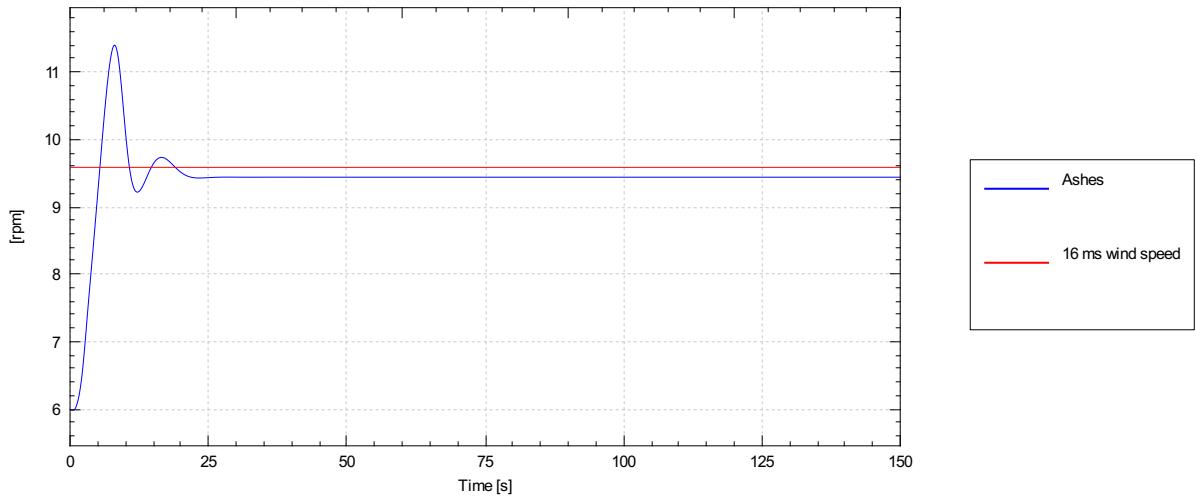
Power (aero)



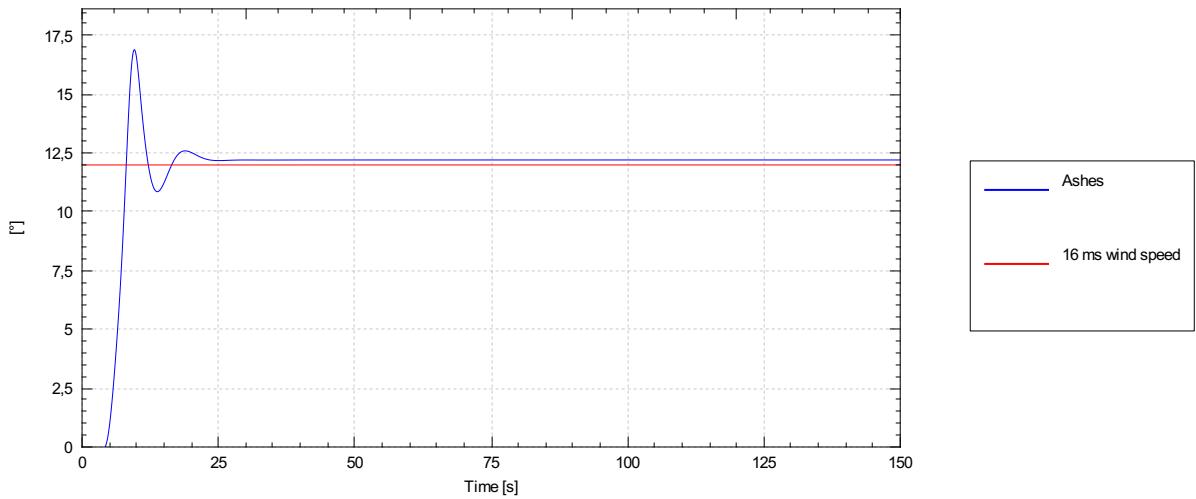
Thrust (aero)



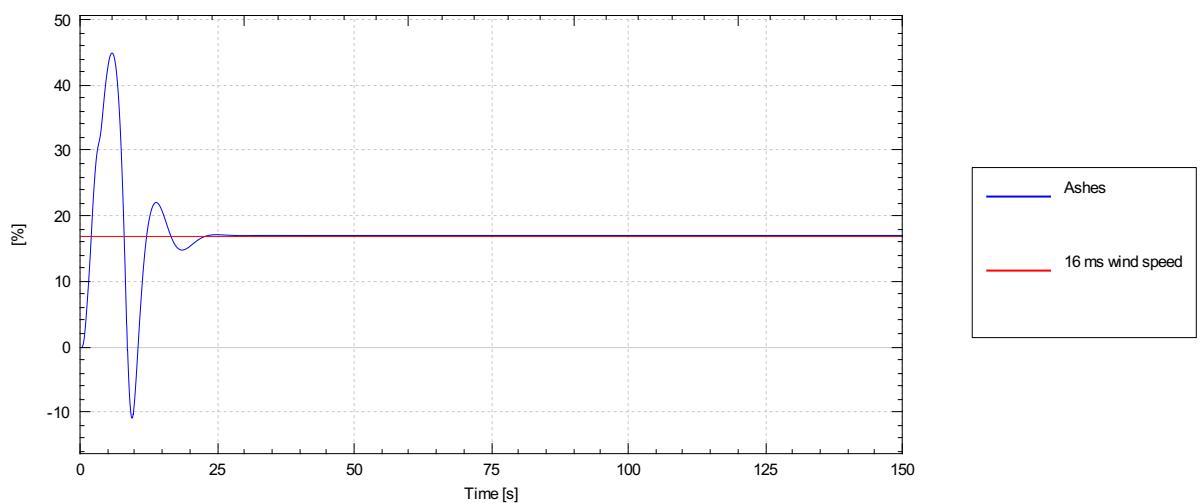
RPM



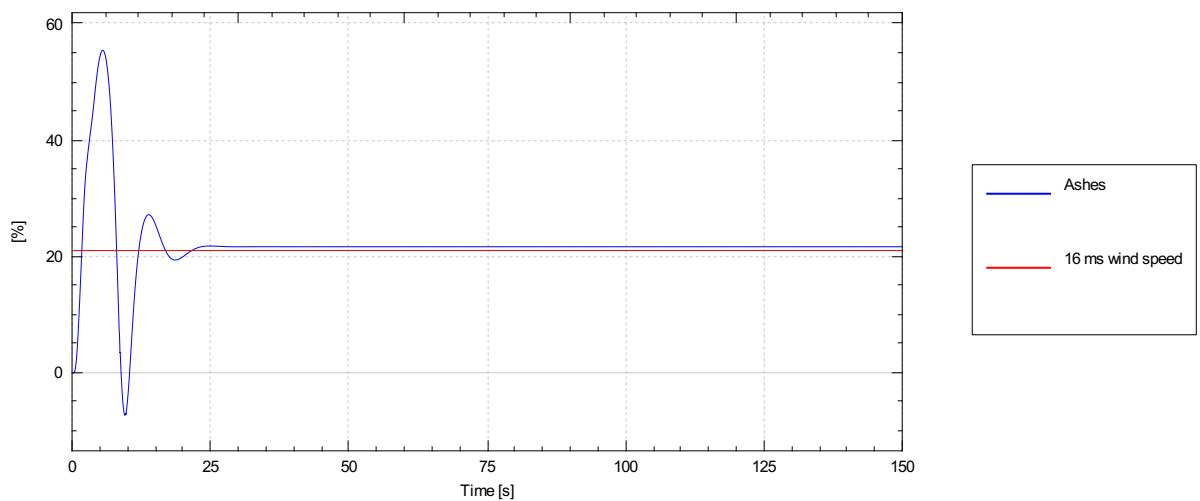
Demanded collective pitch angle



Power coef. (CP)



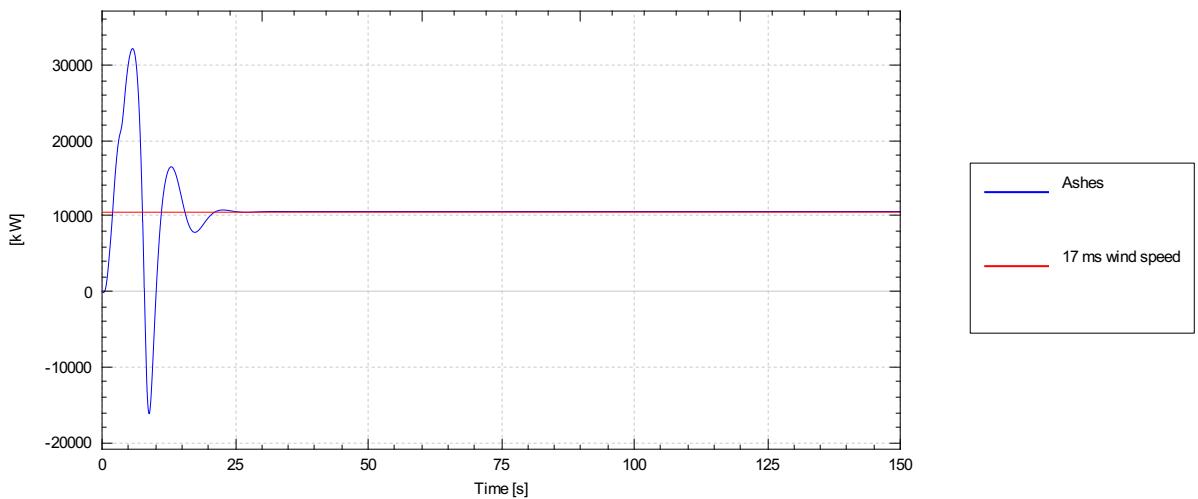
Thrust coef. (CT)



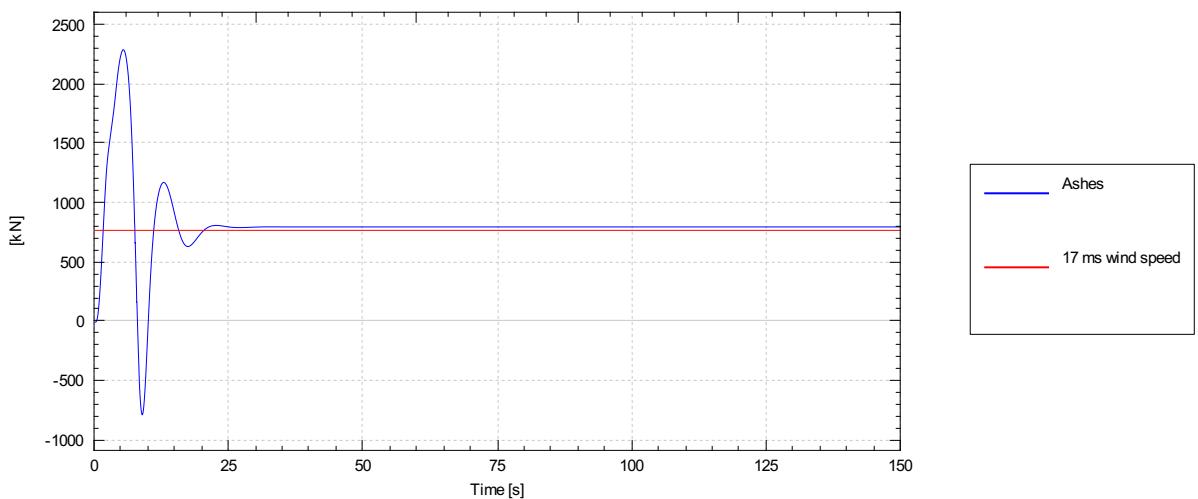
Load case: 17 ms wind speed

Sensor Rotor

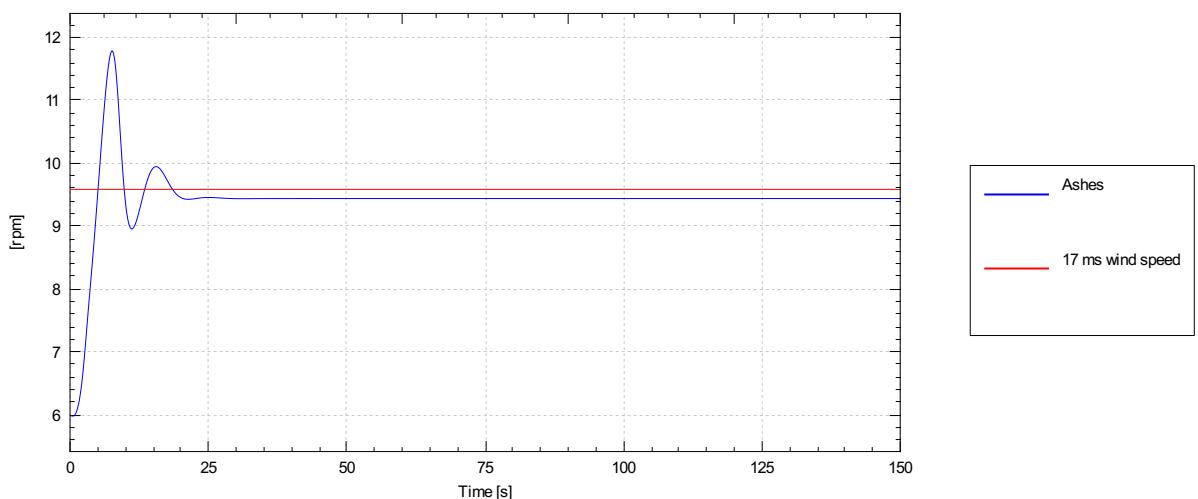
Power (aero)



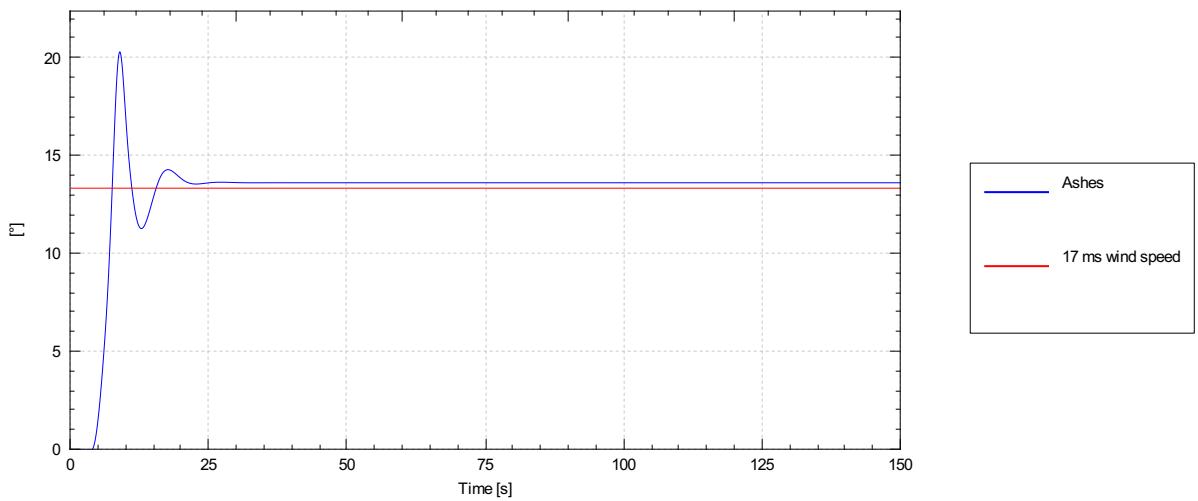
Thrust (aero)



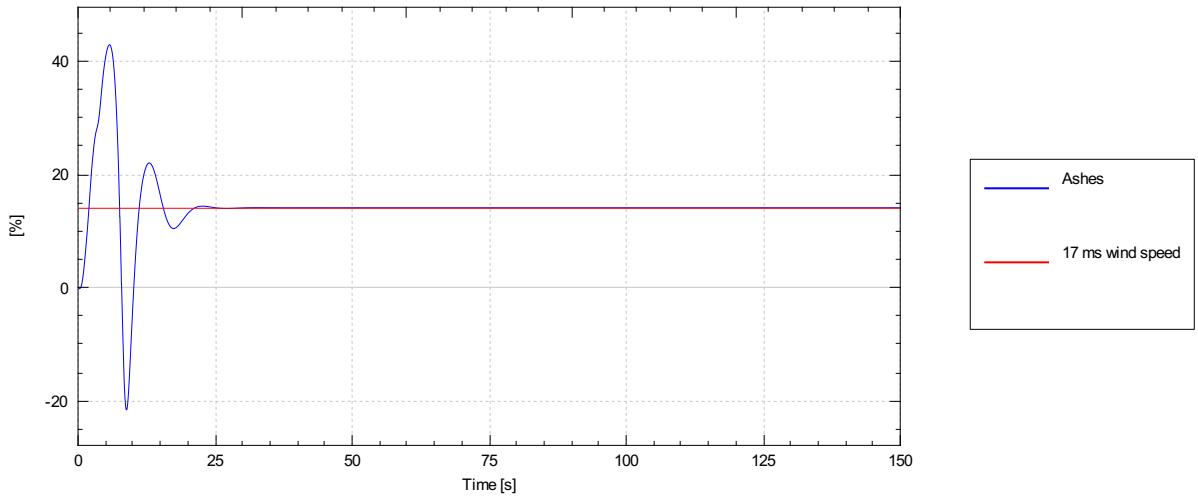
RPM



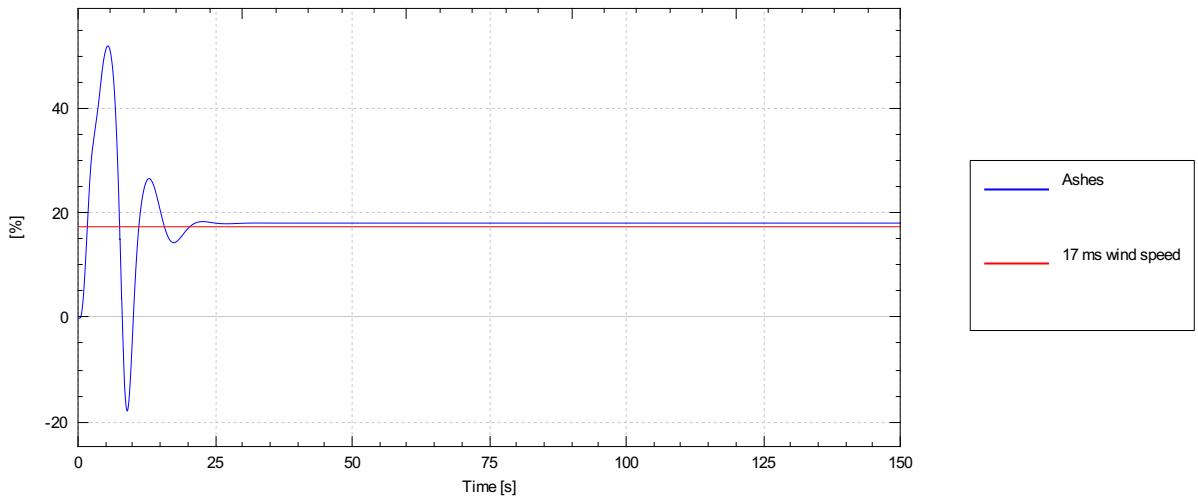
Demanded collective pitch angle



Power coef. (CP)

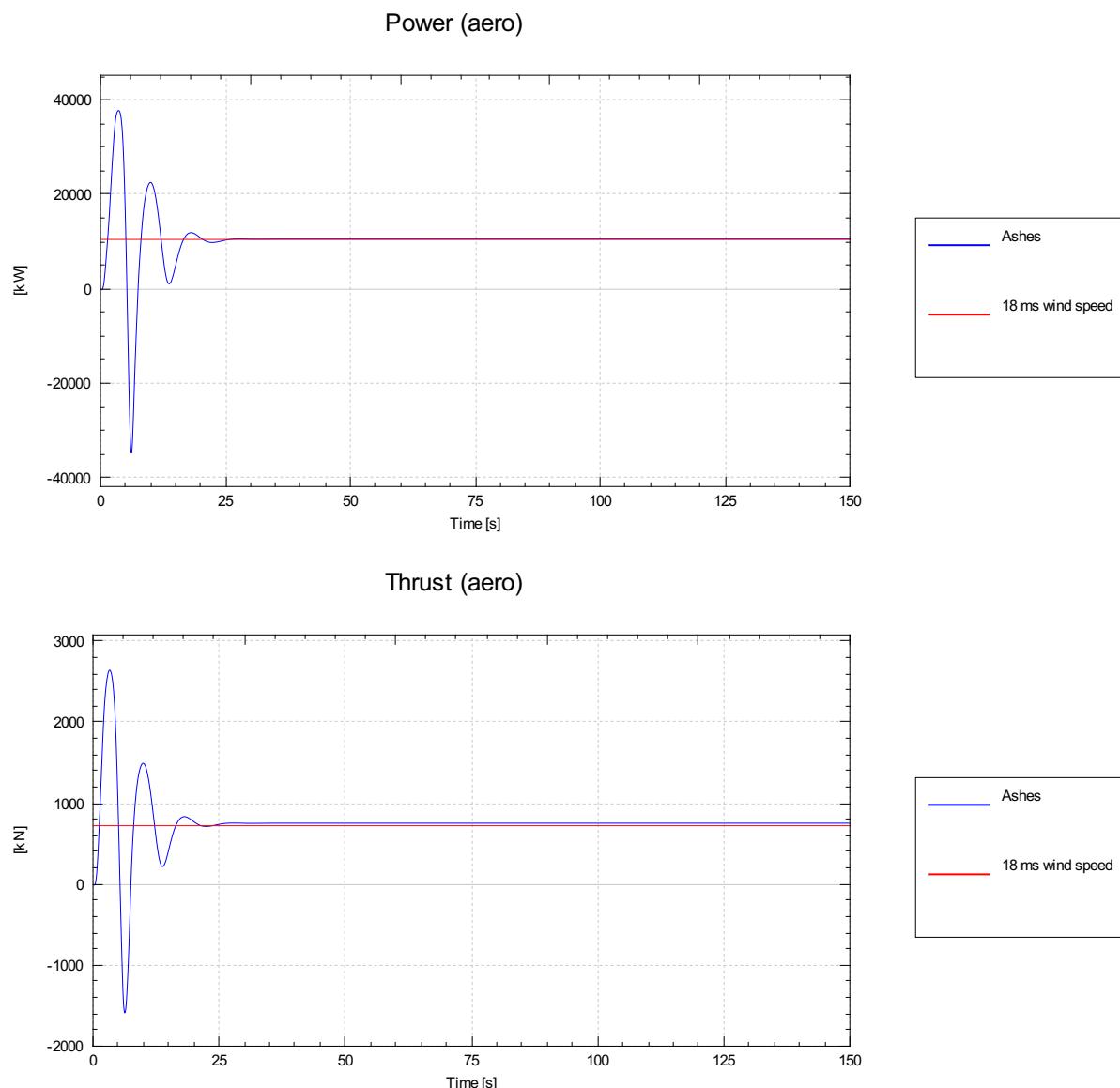


Thrust coef. (CT)

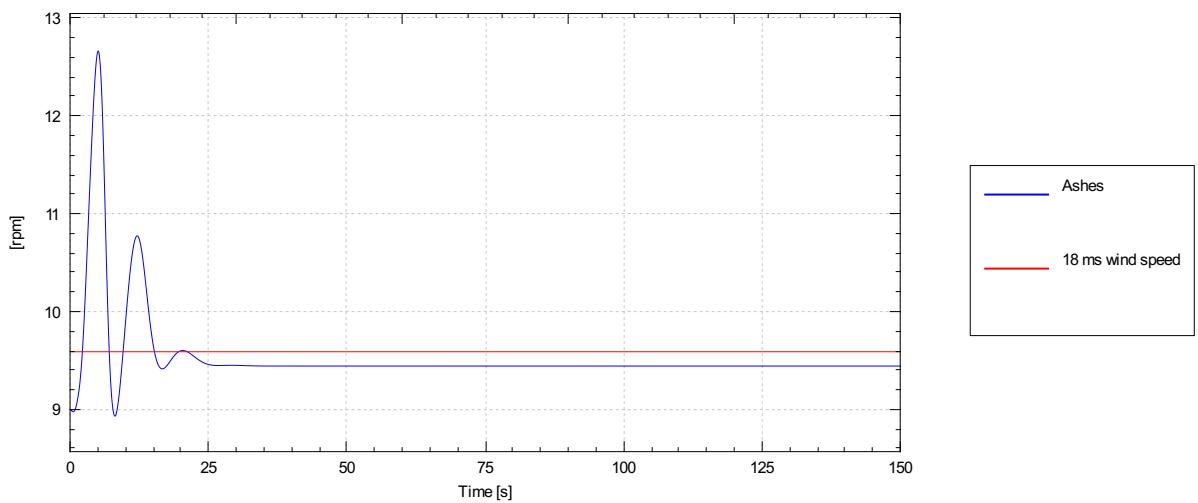


Load case: 18 ms wind speed

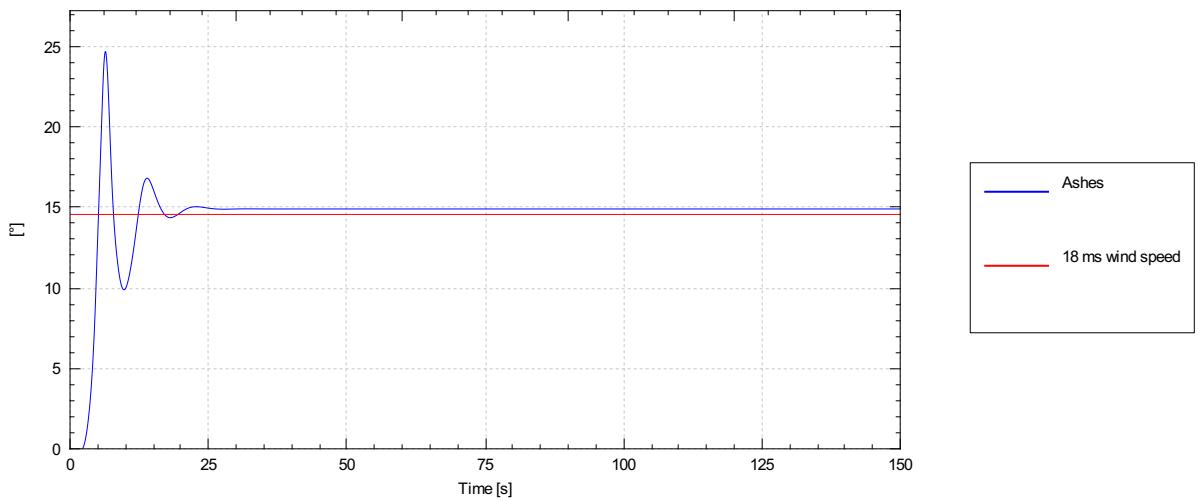
Sensor Rotor



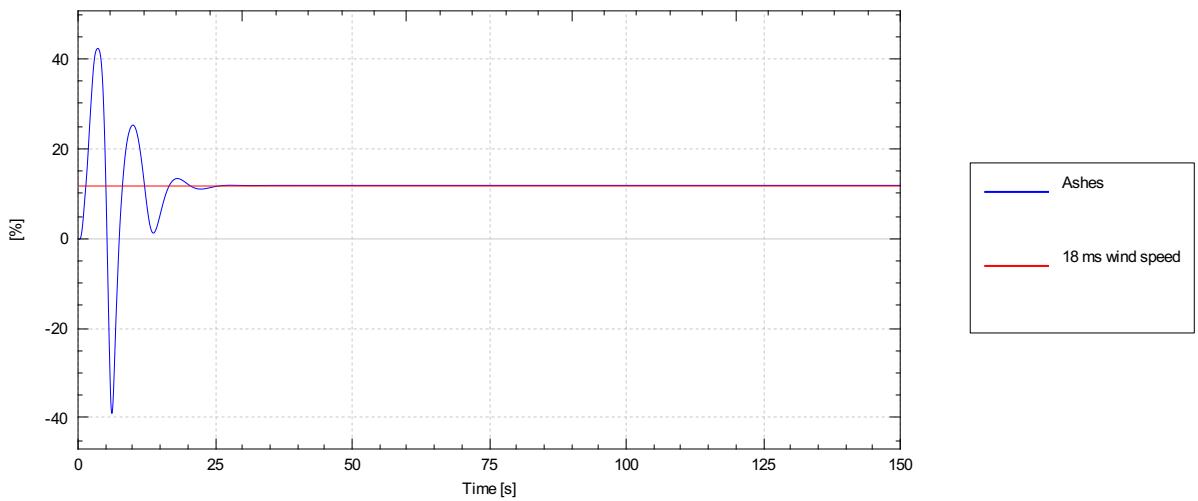
RPM



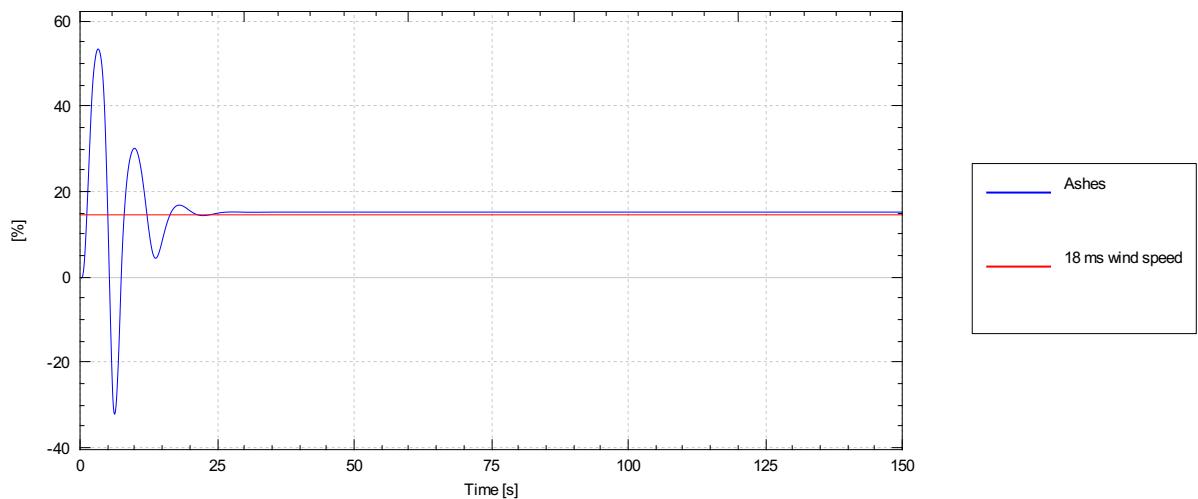
Demanded collective pitch angle



Power coef. (CP)



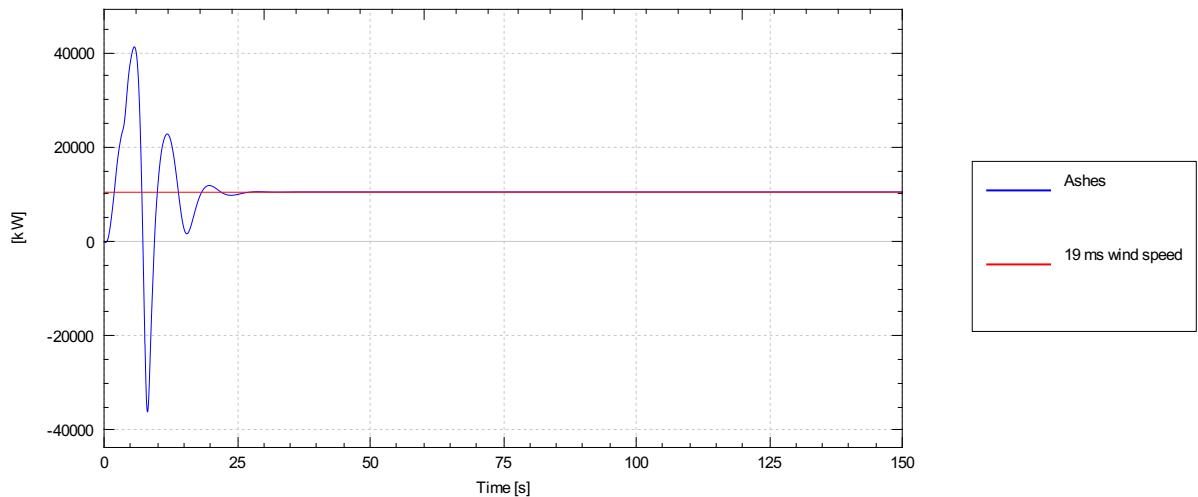
Thrust coef. (CT)



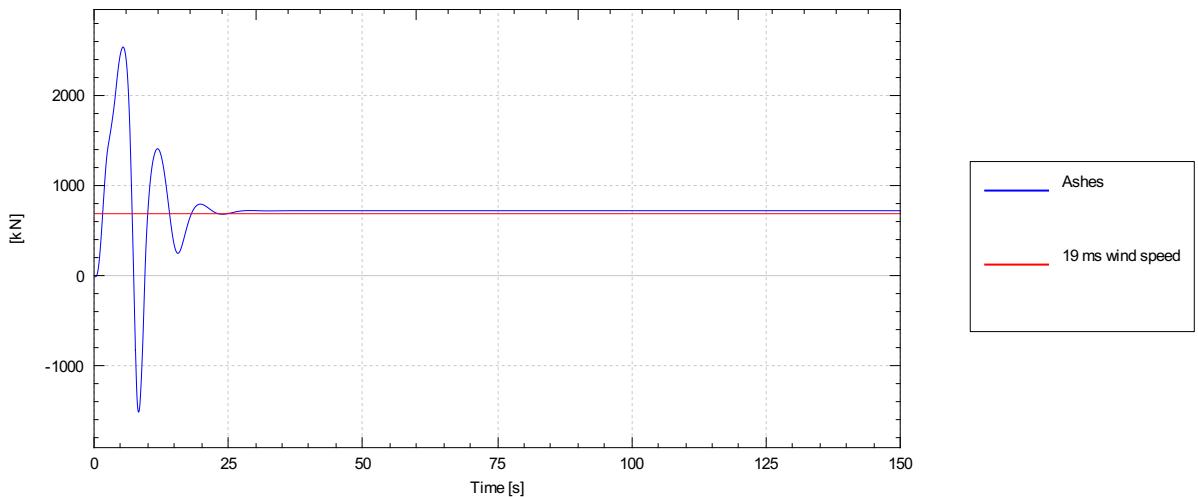
Load case: 19 ms wind speed

Sensor Rotor

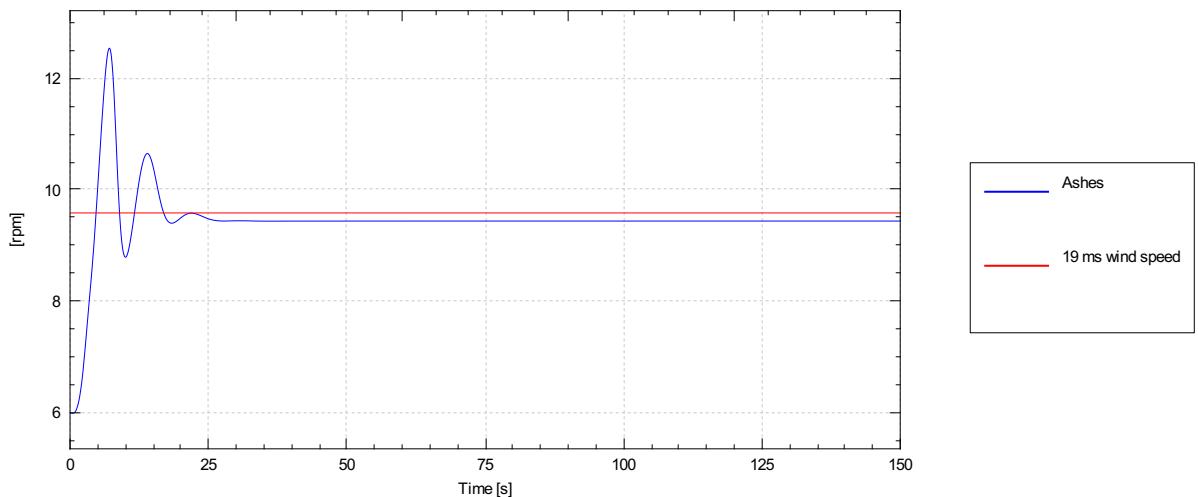
Power (aero)



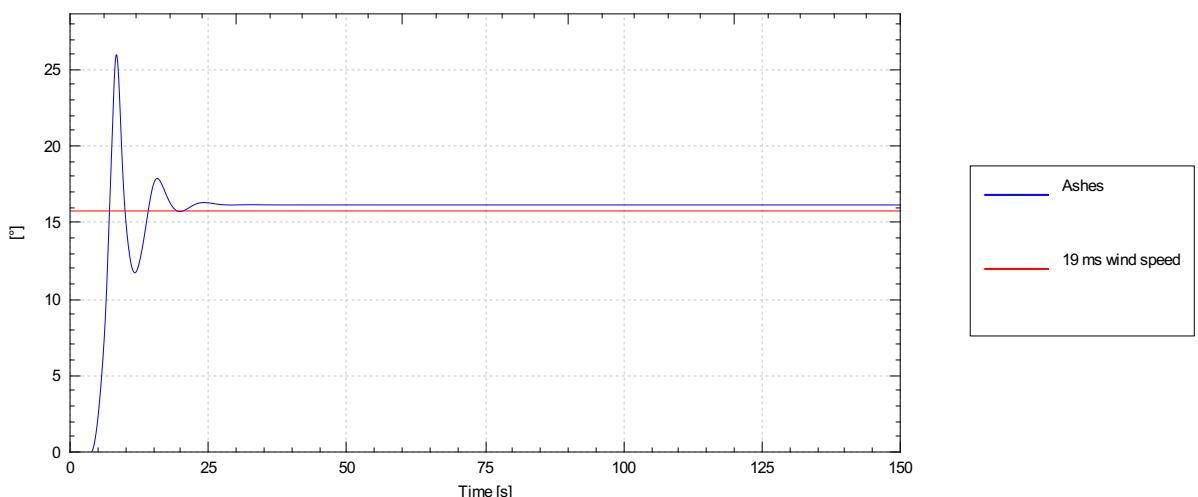
Thrust (aero)



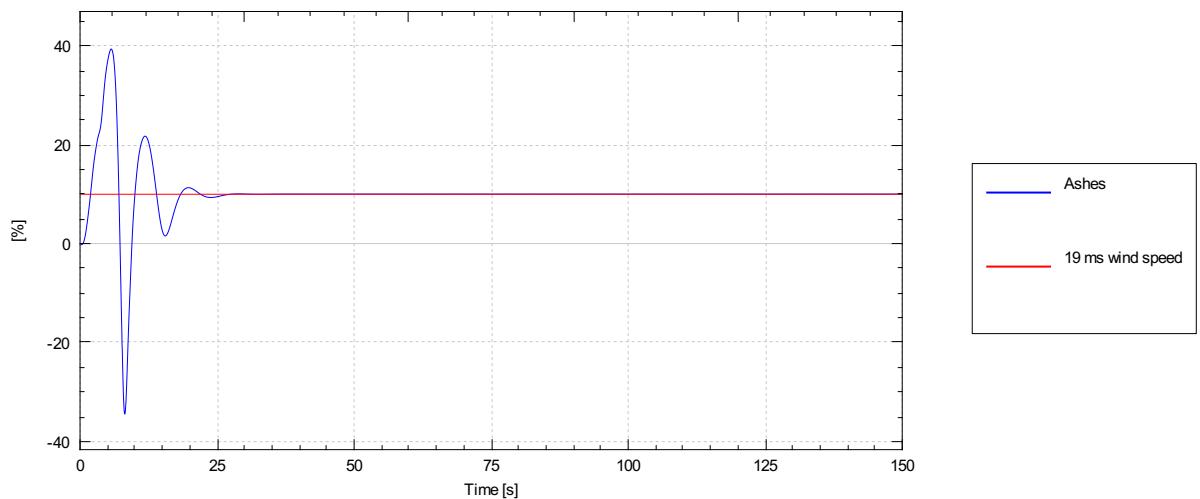
RPM



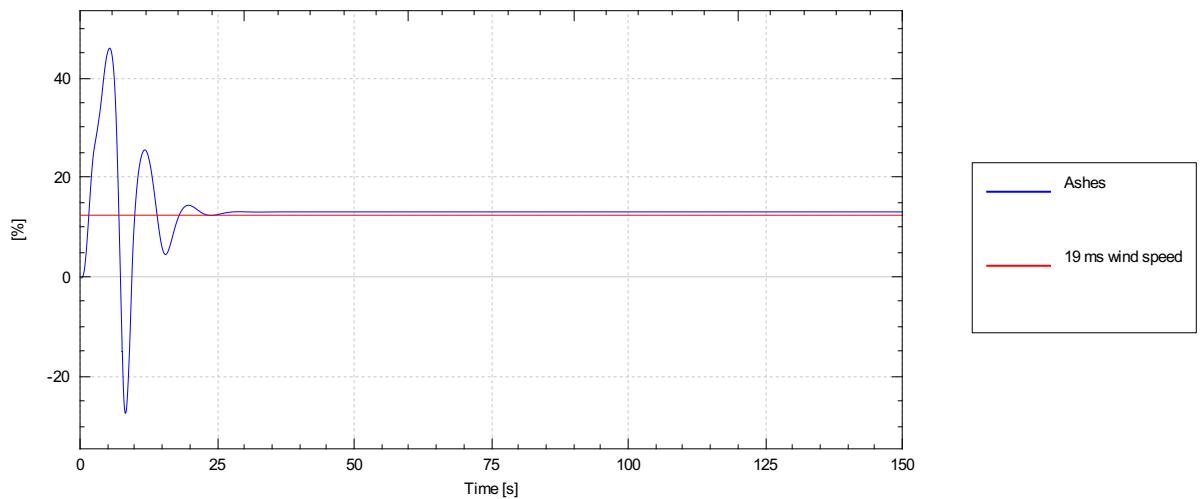
Demanded collective pitch angle



Power coef. (CP)



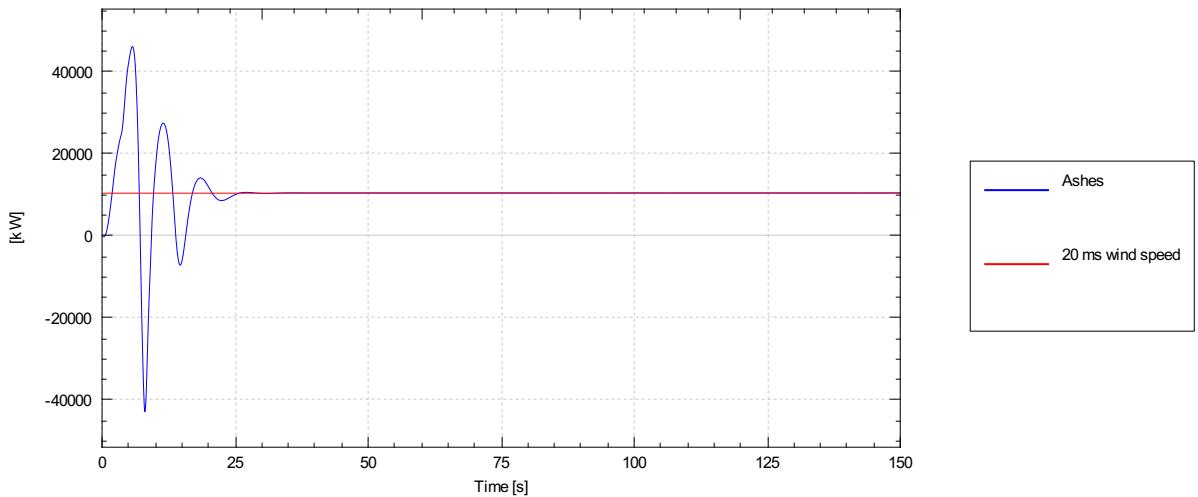
Thrust coef. (CT)



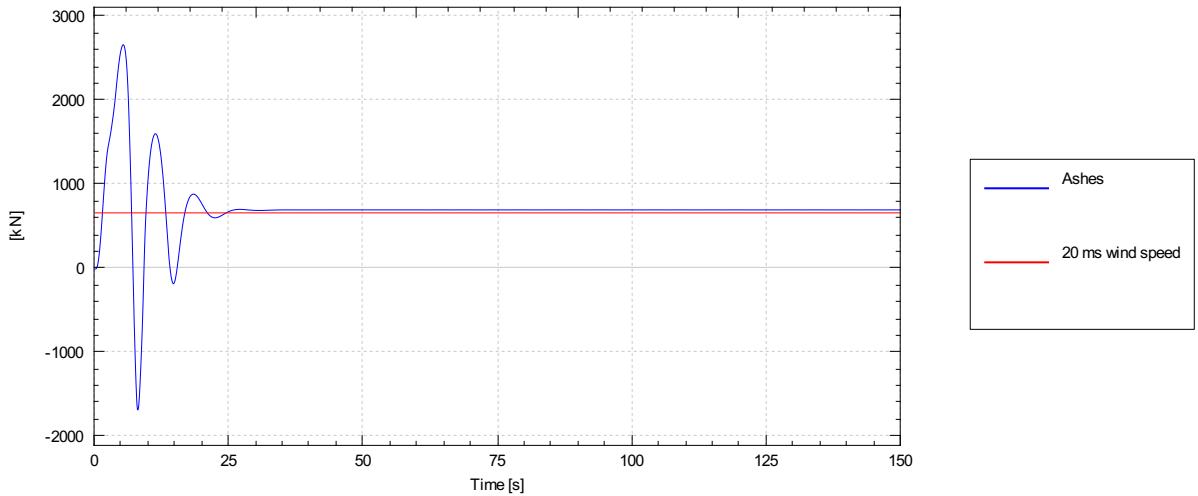
Load case: 20 ms wind speed

Sensor Rotor

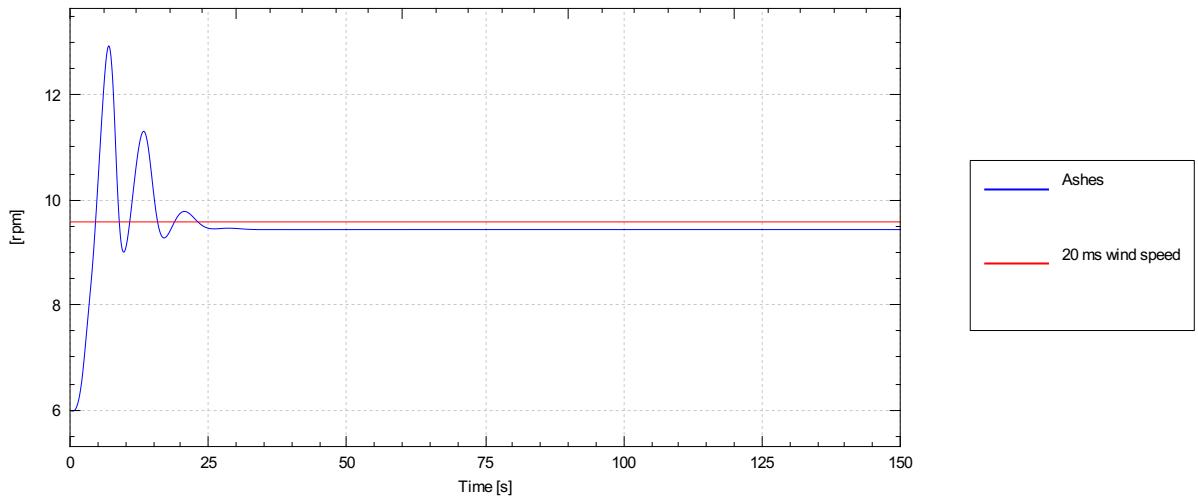
Power (aero)



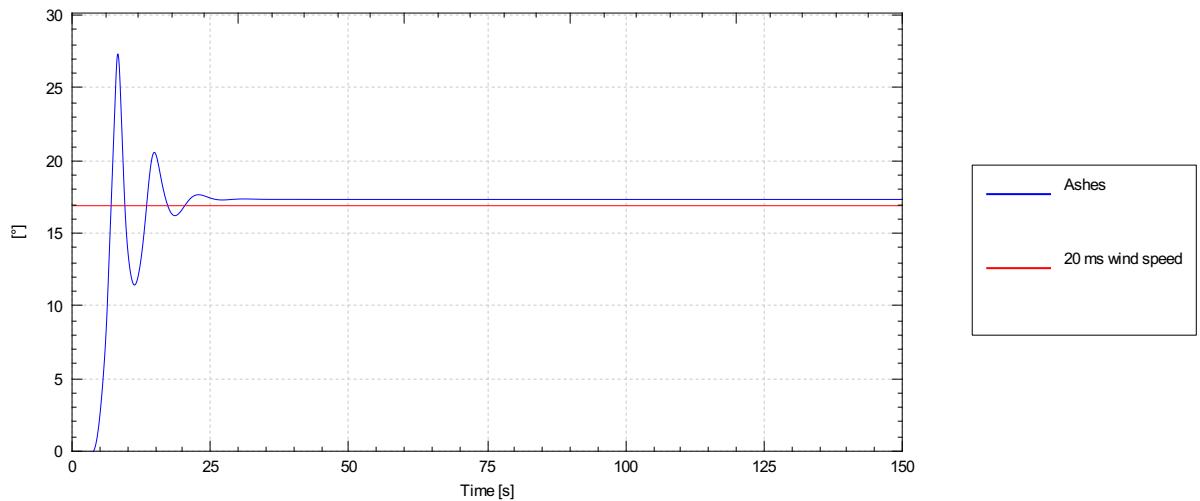
Thrust (aero)



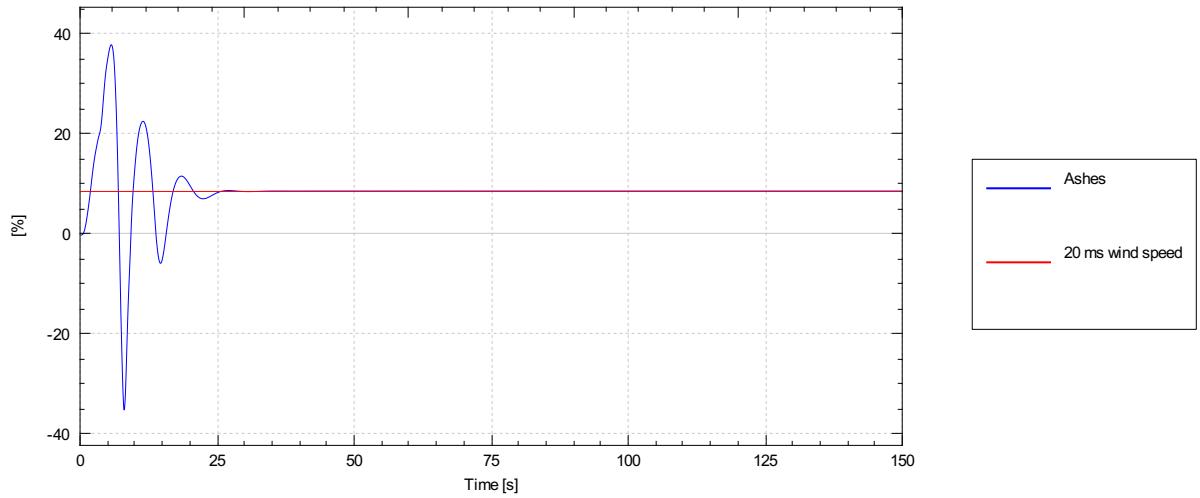
RPM



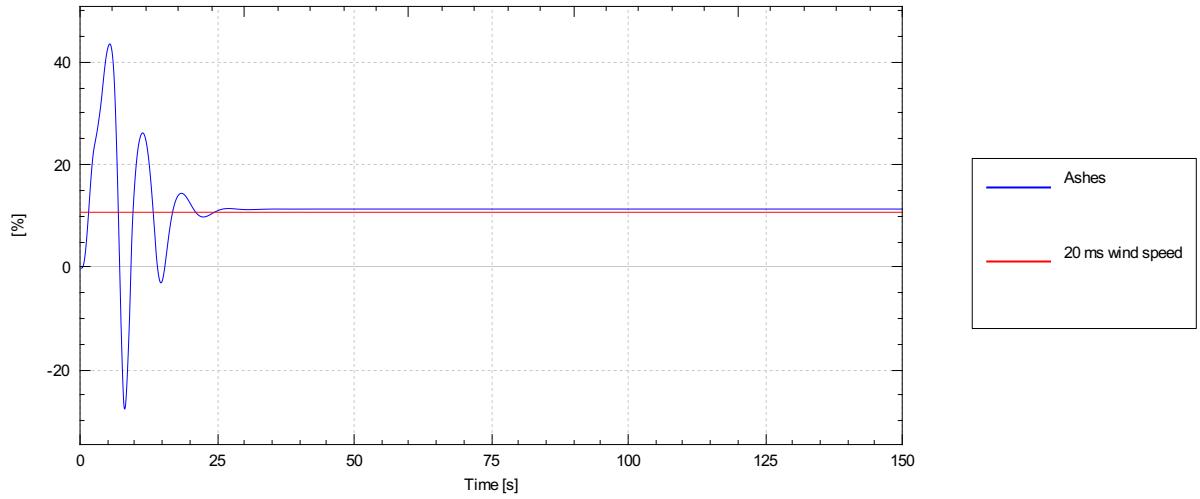
Demanded collective pitch angle



Power coef. (CP)

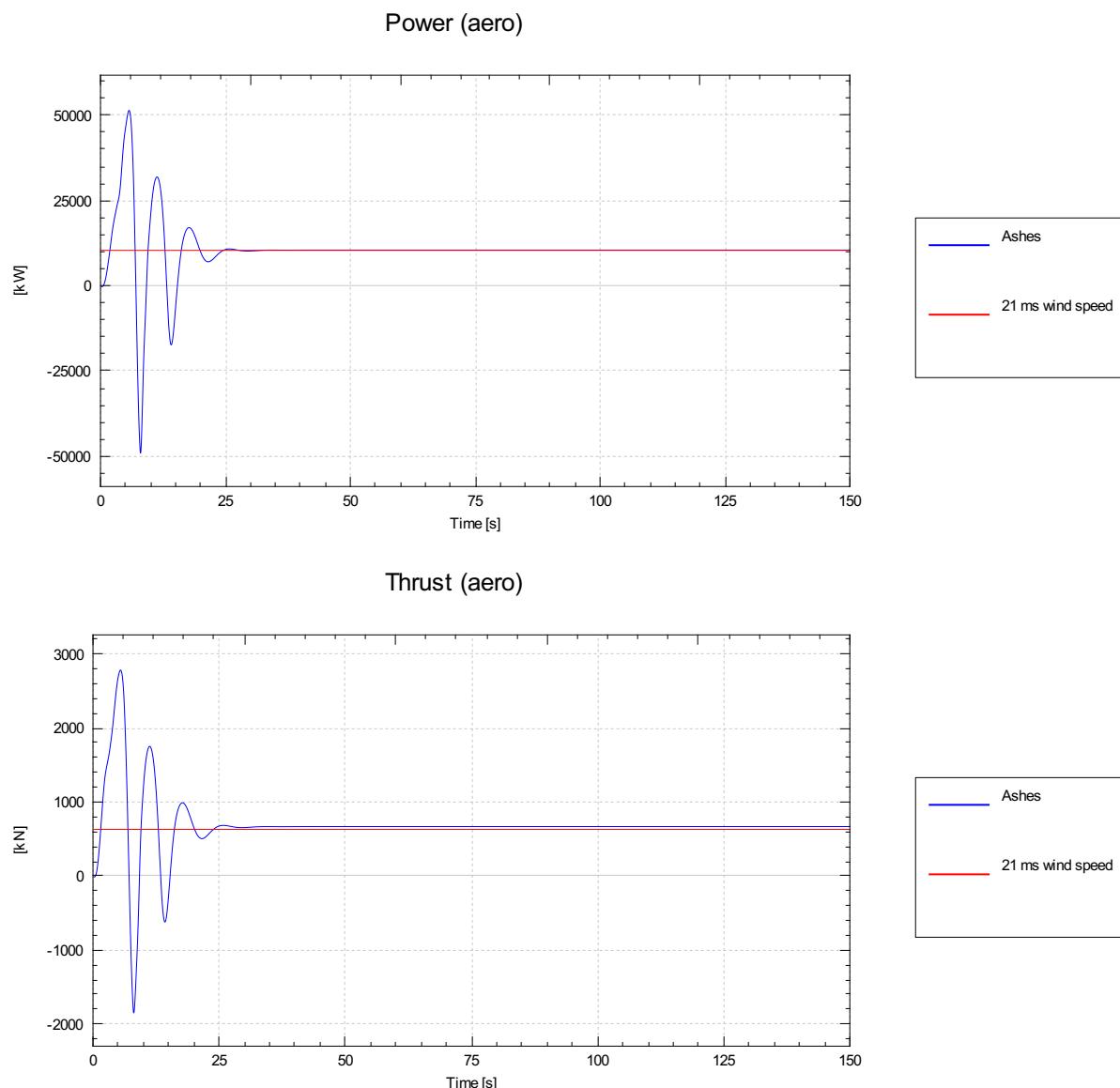


Thrust coef. (CT)

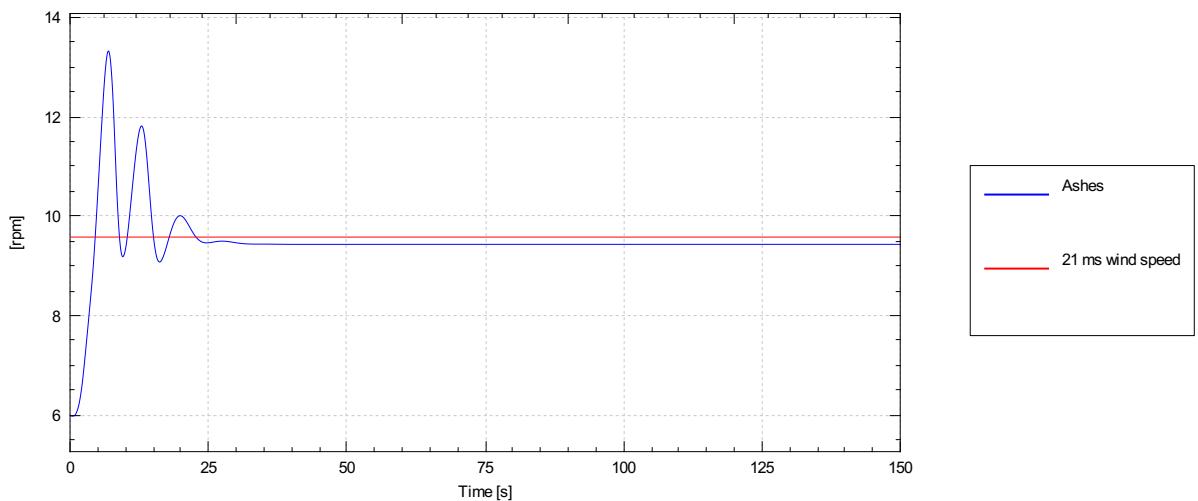


Load case: 21 ms wind speed

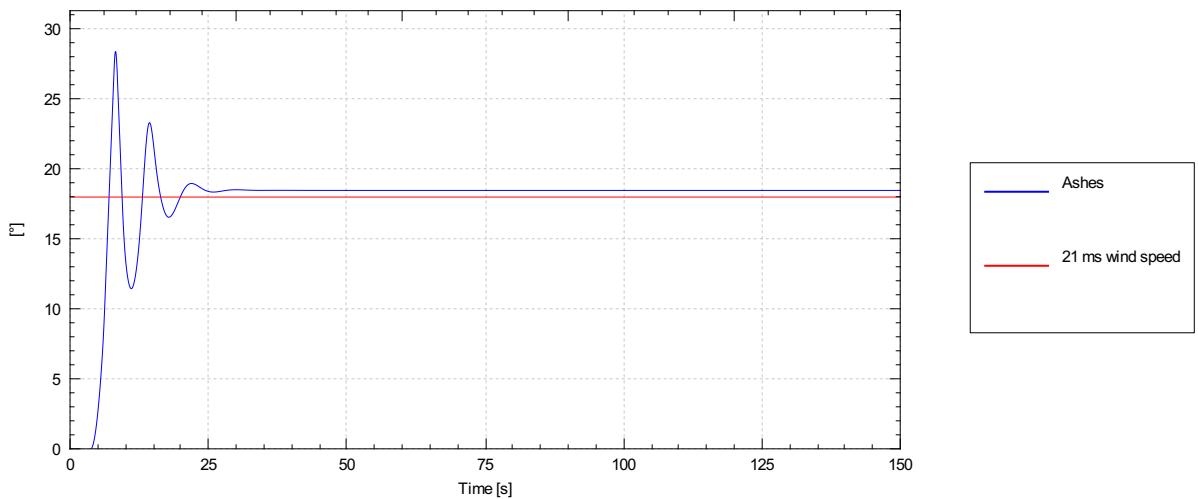
Sensor Rotor



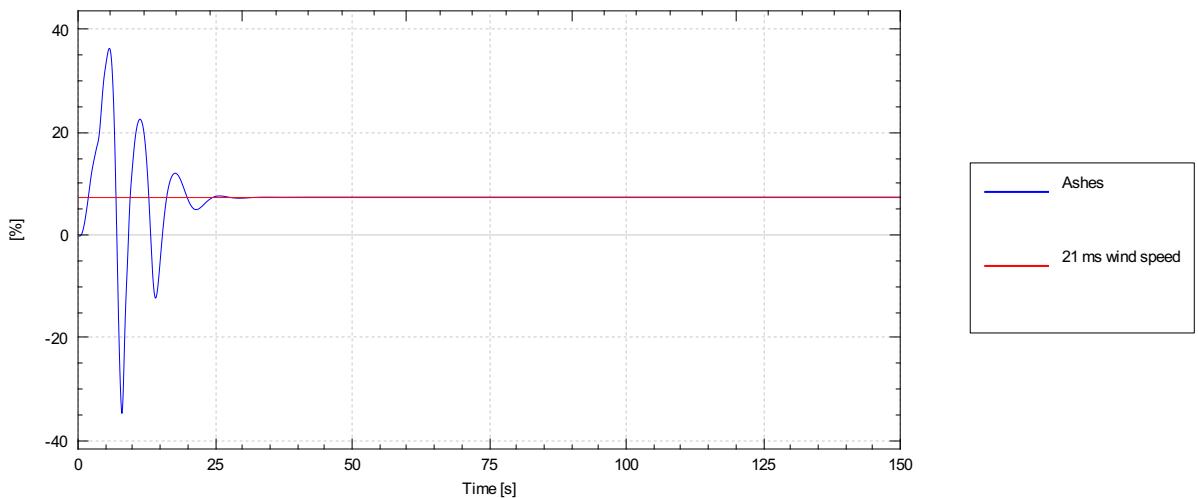
RPM



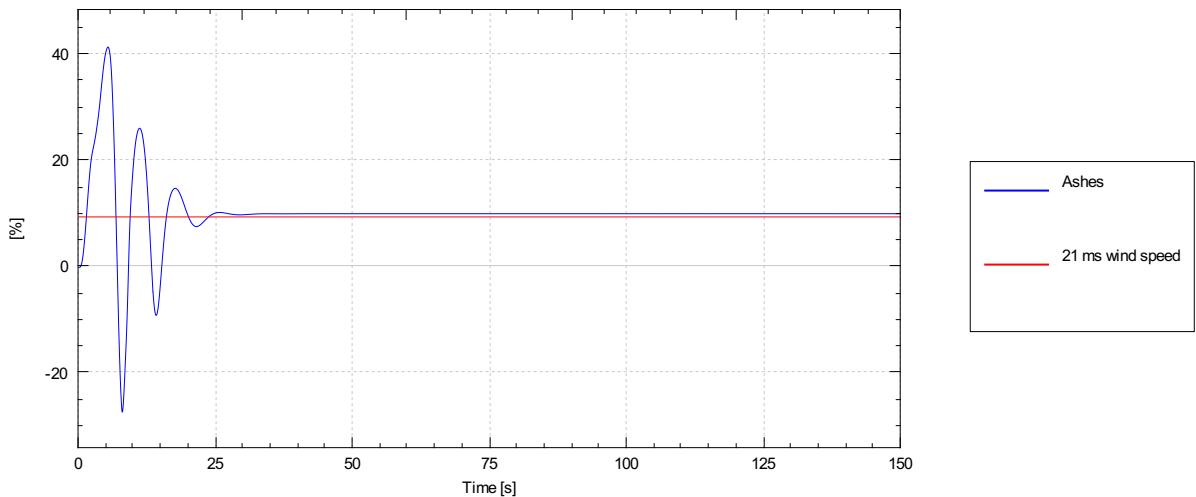
Demanded collective pitch angle



Power coef. (CP)



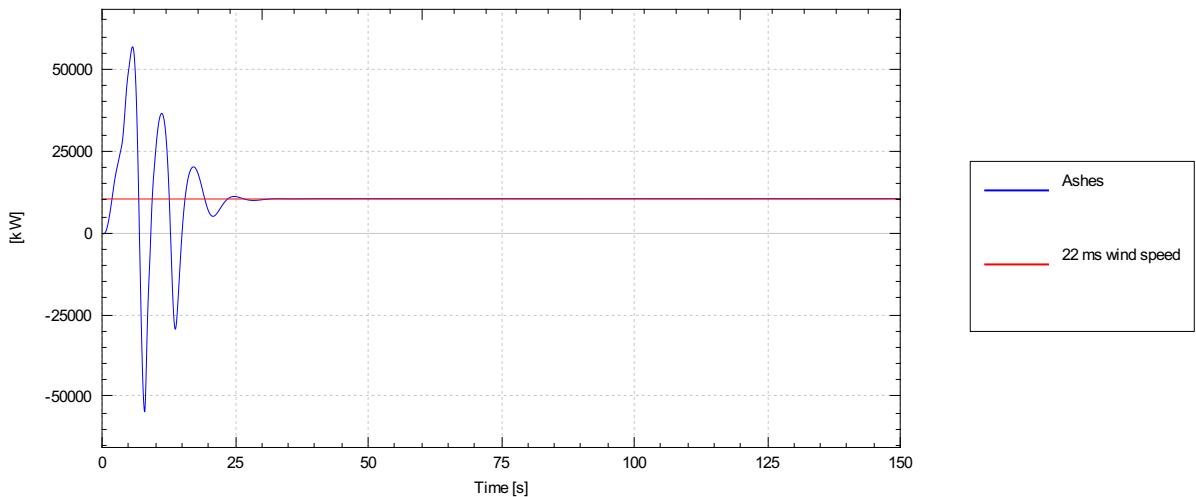
Thrust coef. (CT)



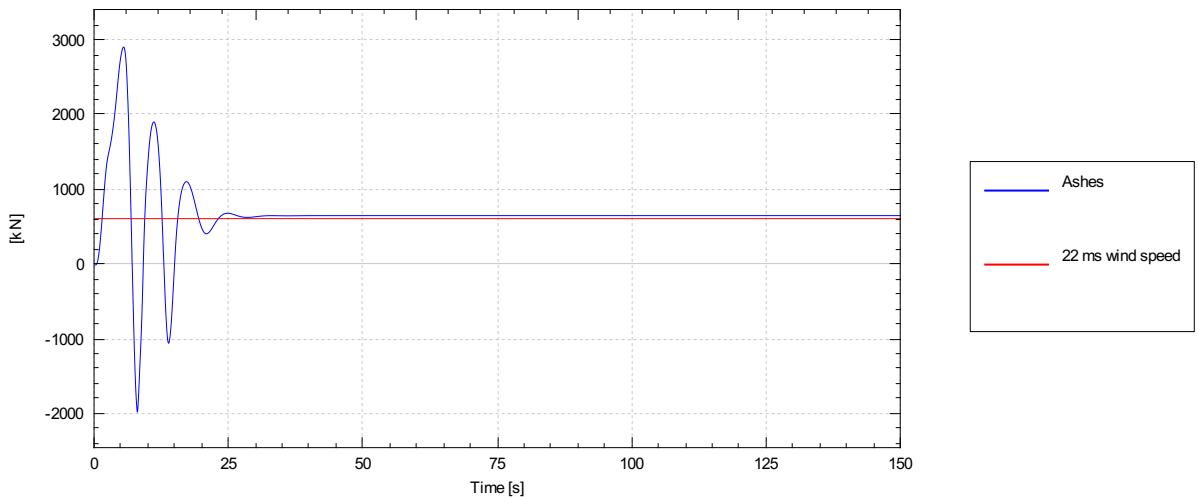
Load case: 22 ms wind speed

Sensor Rotor

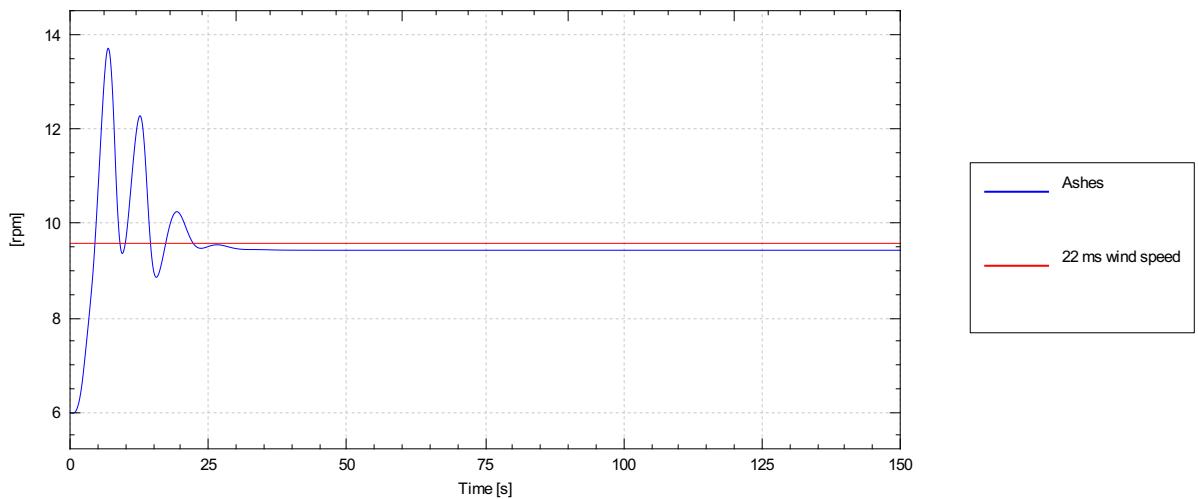
Power (aero)



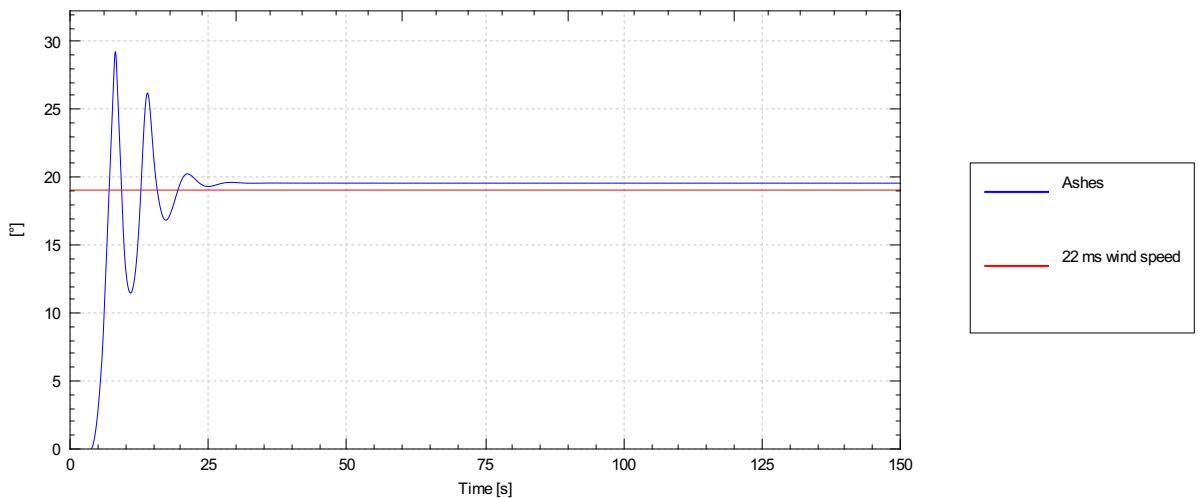
Thrust (aero)



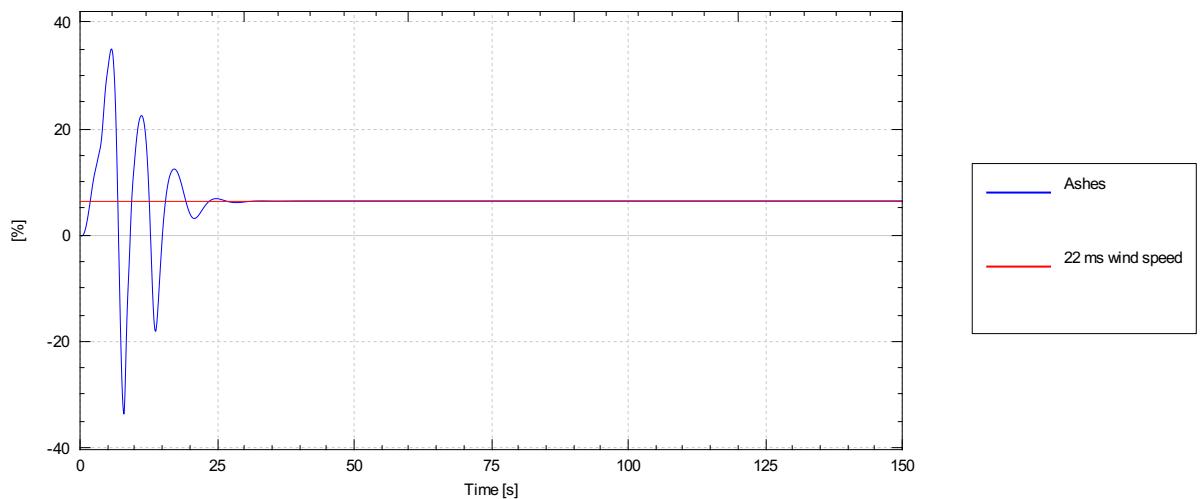
RPM



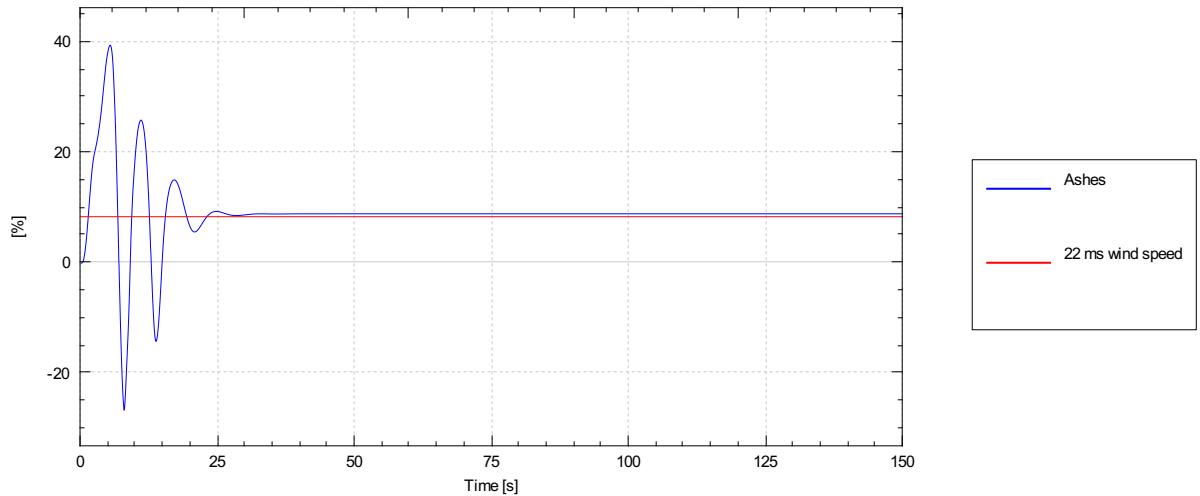
Demanded collective pitch angle



Power coef. (CP)



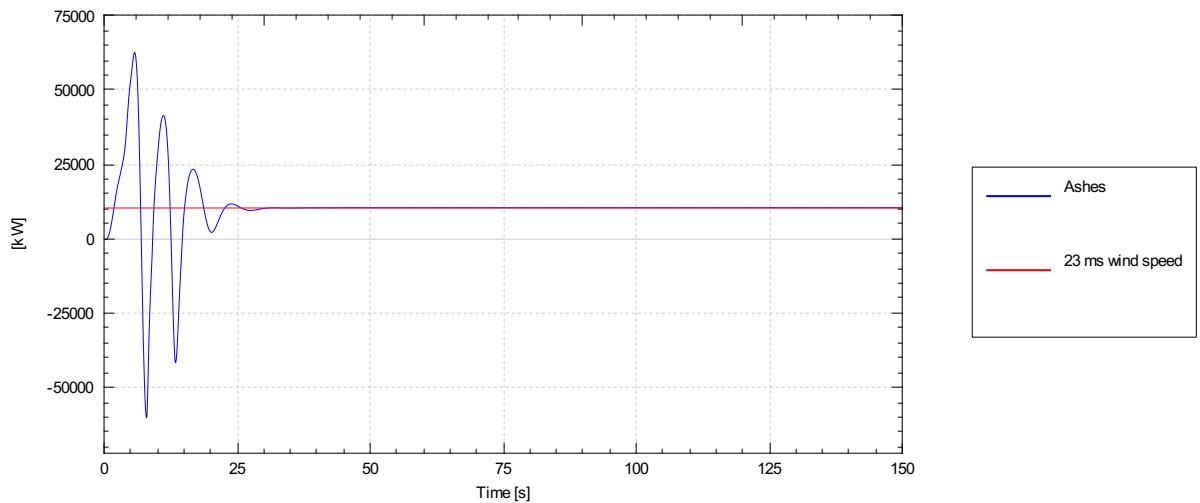
Thrust coef. (CT)



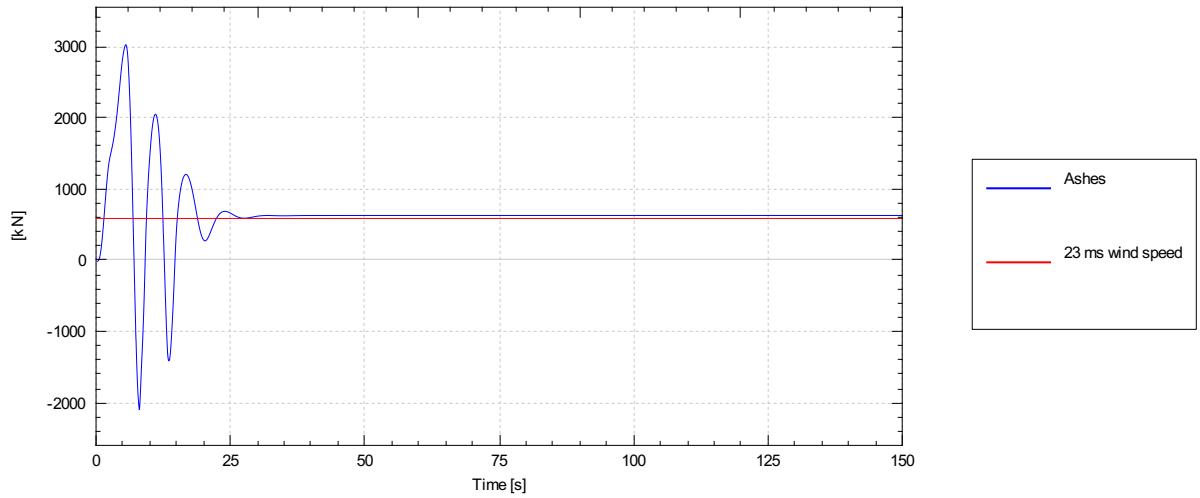
Load case: 23 ms wind speed

Sensor Rotor

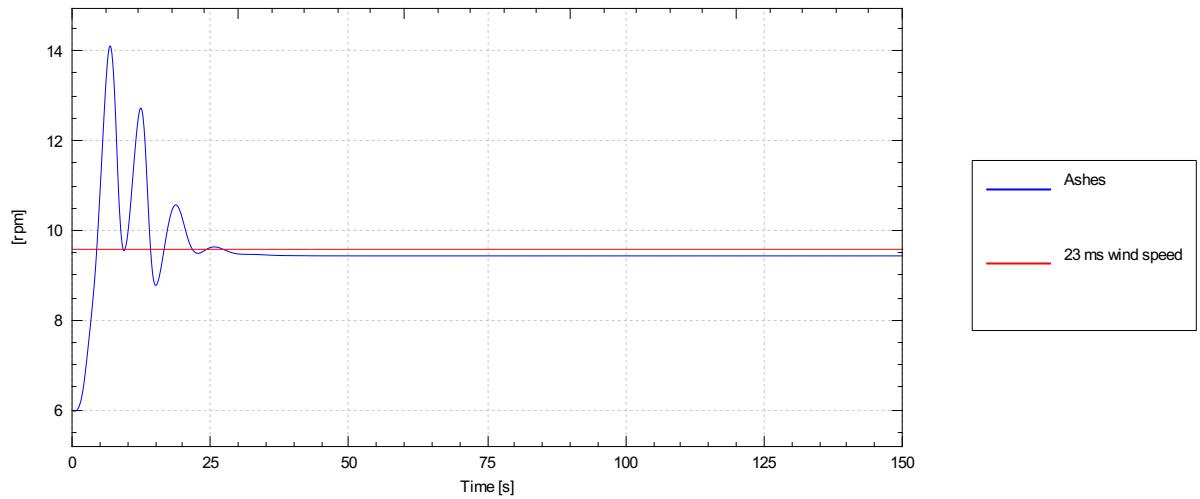
Power (aero)



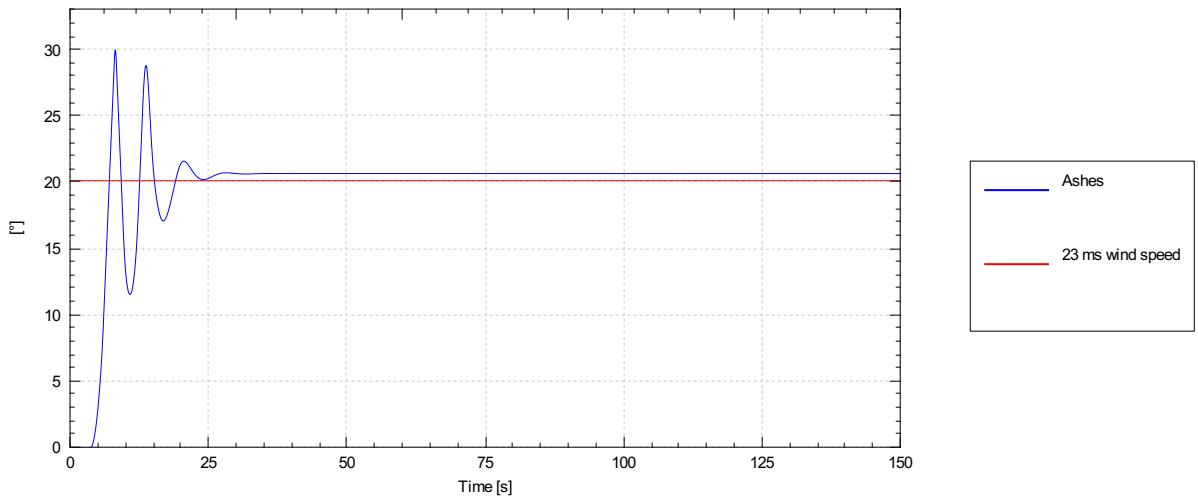
Thrust (aero)



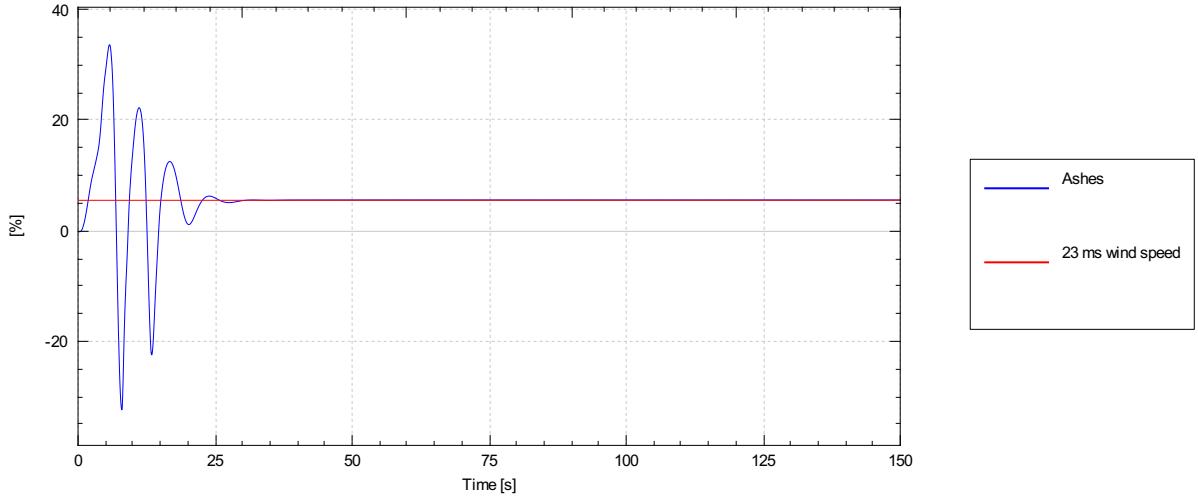
RPM



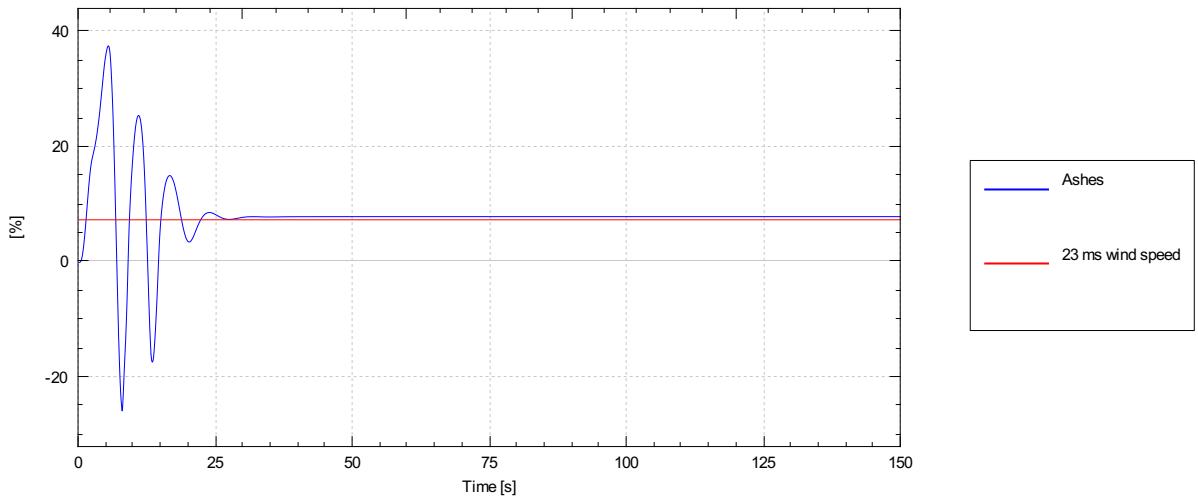
Demanded collective pitch angle



Power coef. (CP)

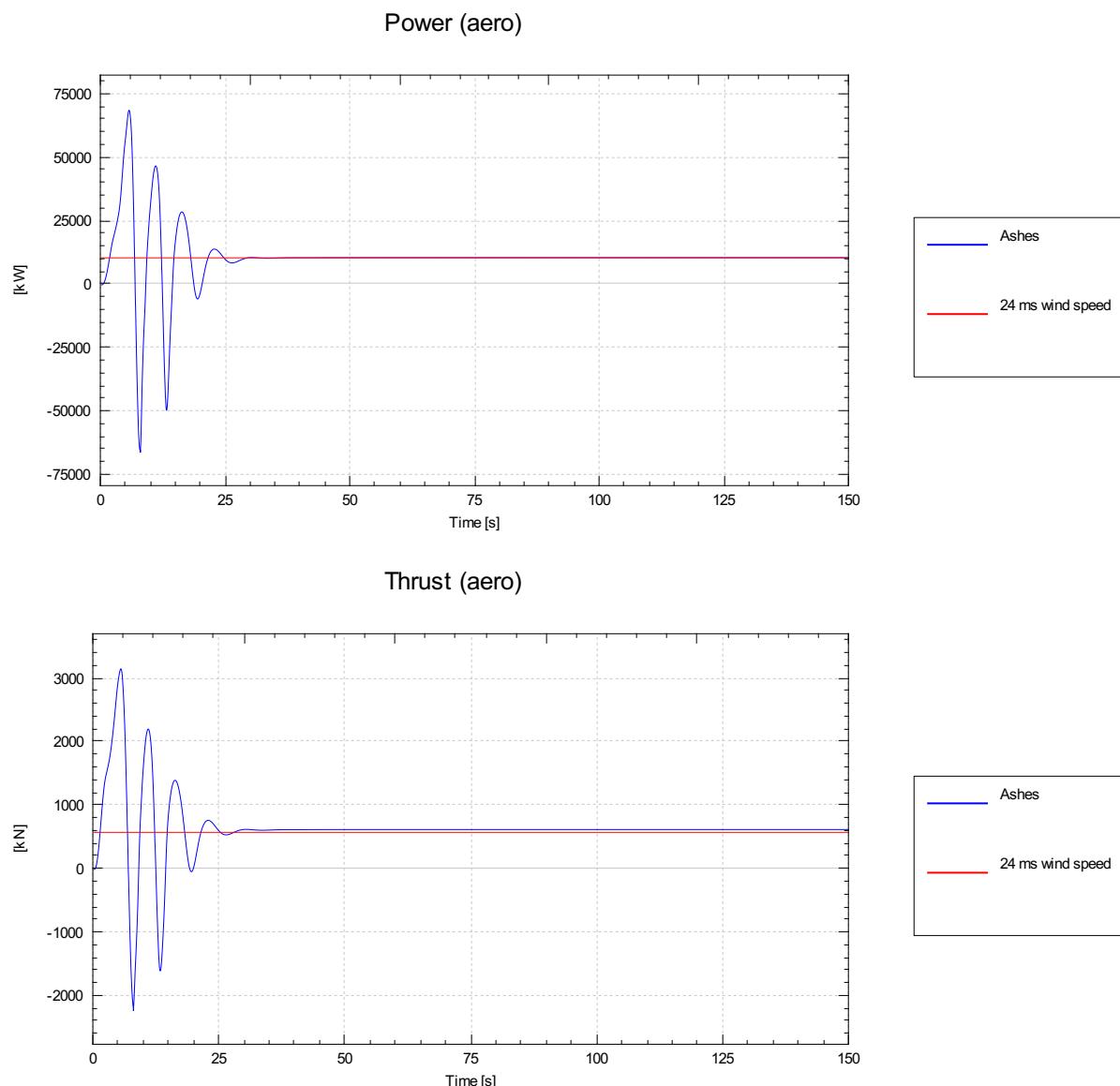


Thrust coef. (CT)

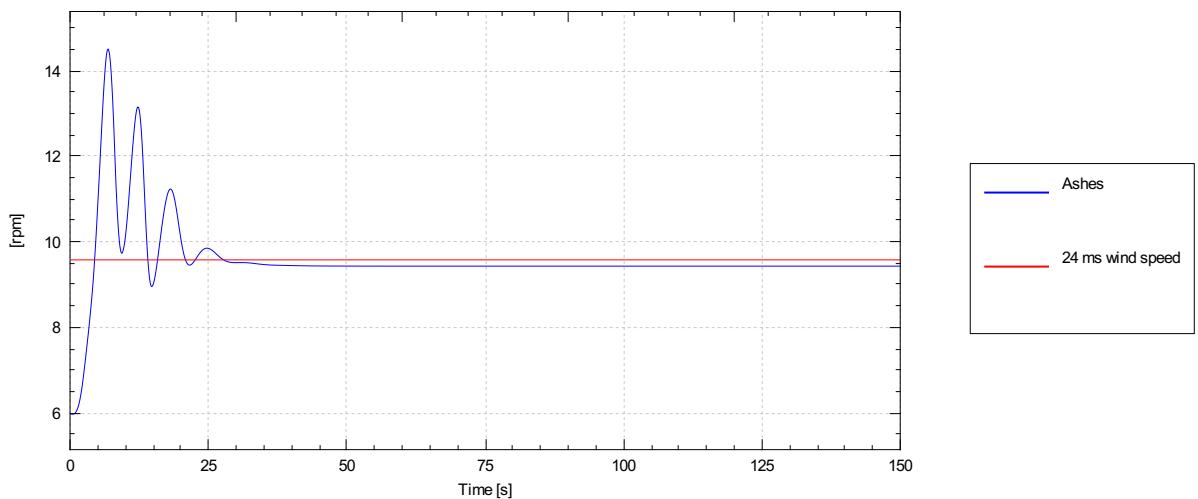


Load case: 24 ms wind speed

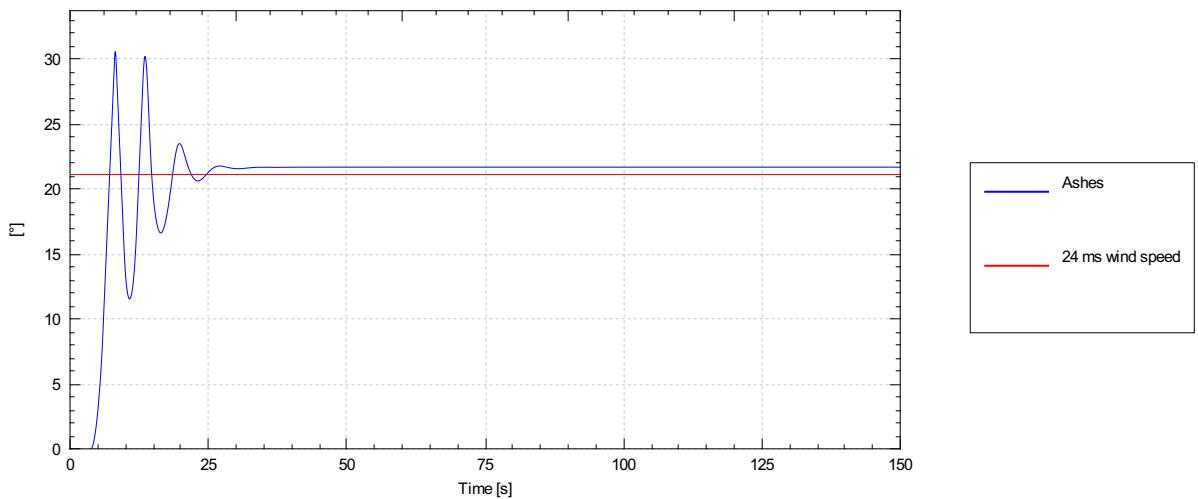
Sensor Rotor



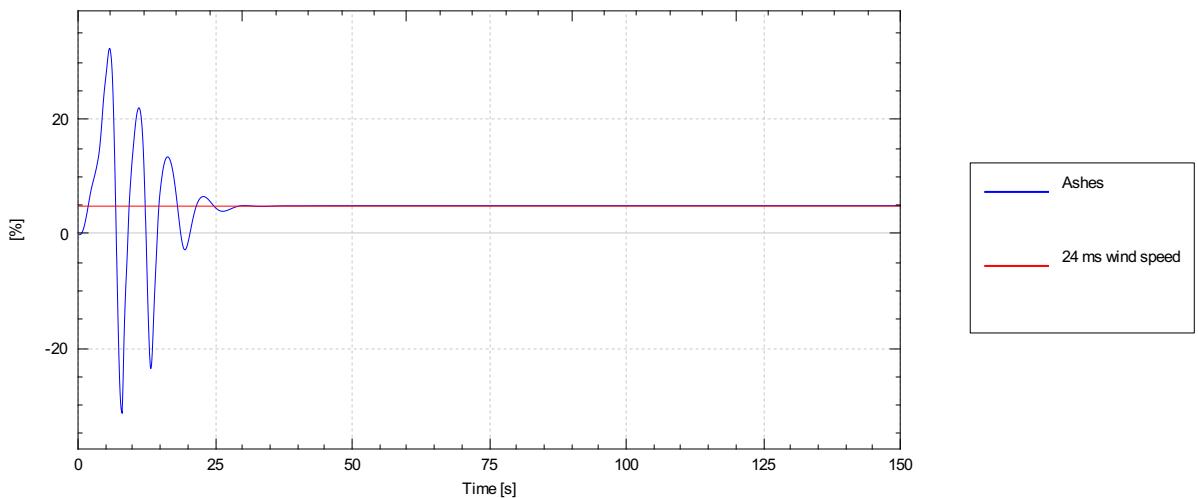
RPM



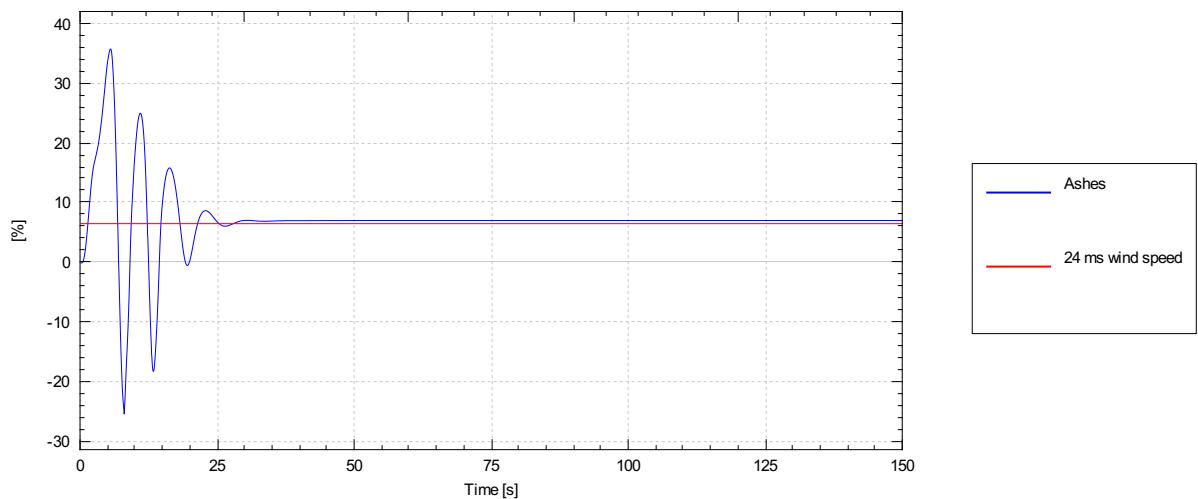
Demanded collective pitch angle



Power coef. (CP)



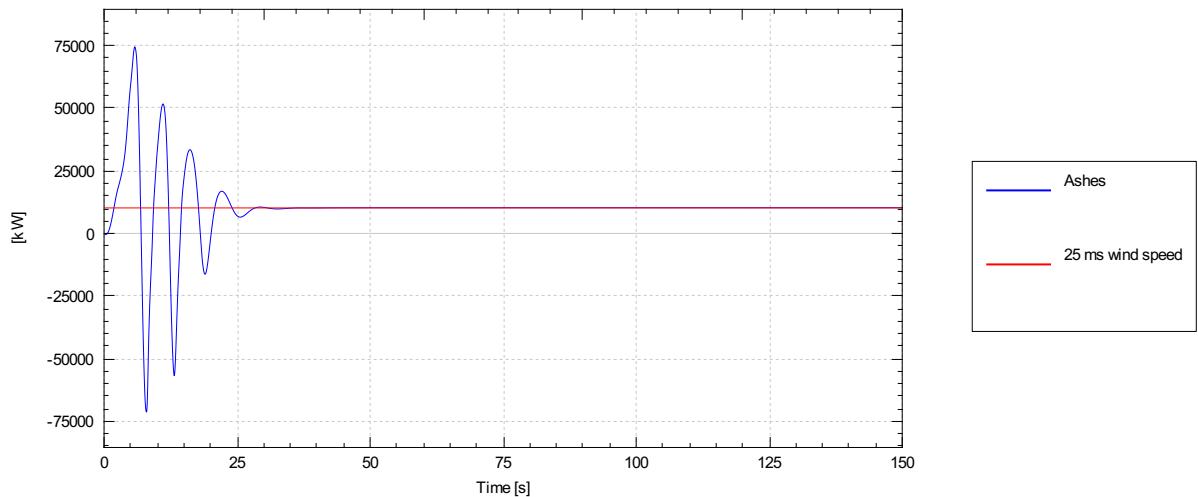
Thrust coef. (CT)



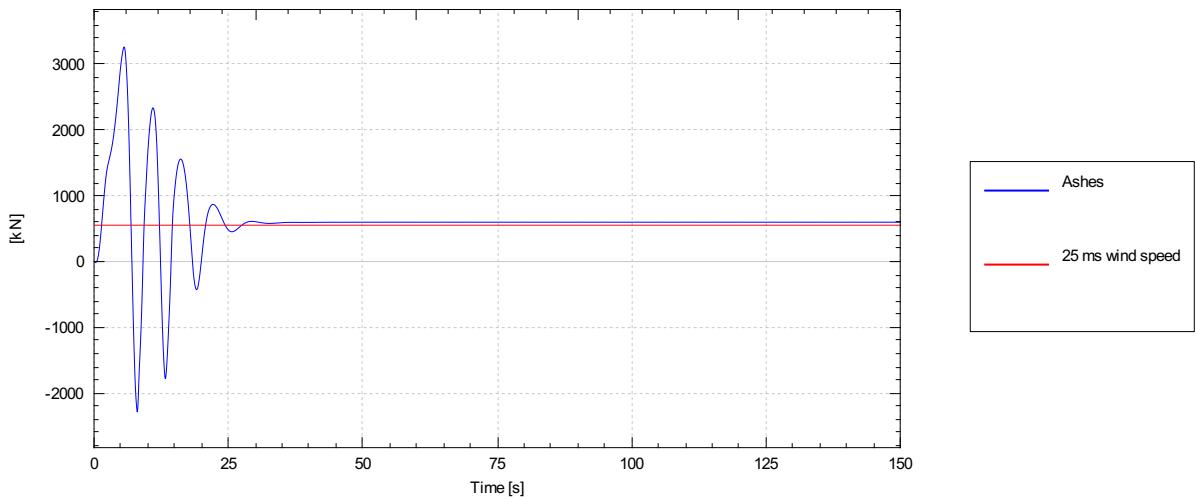
Load case: 25 ms wind speed

Sensor Rotor

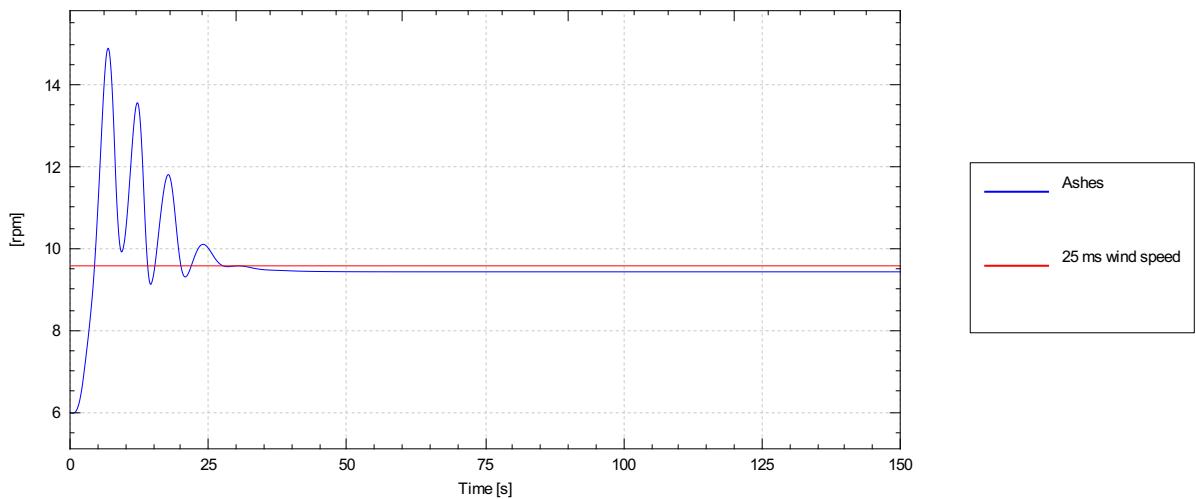
Power (aero)



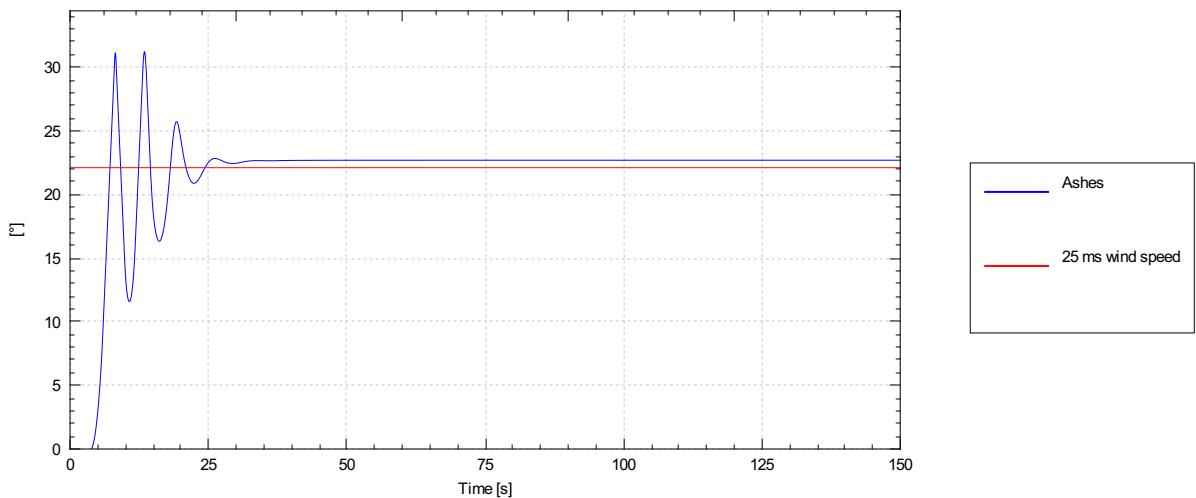
Thrust (aero)



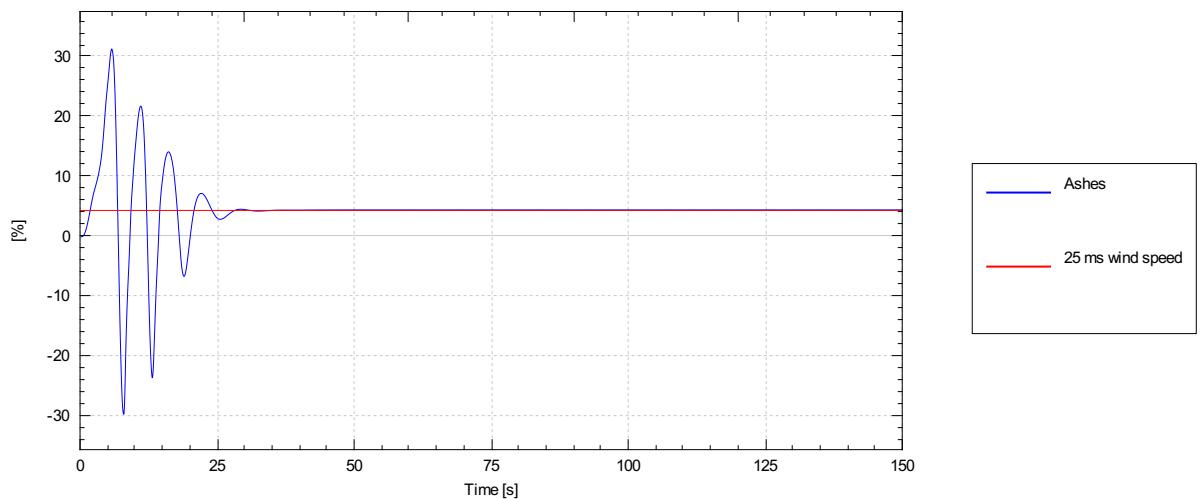
RPM



Demanded collective pitch angle



Power coef. (CP)



Thrust coef. (CT)

