

Regression test

Test run started 2025-08-26T20:35:39Z
Ashes version: 3.32.0
Comparing with external results

IEA 15-MW Rotor Performance			
Load case set 1			
Load case	Time series	Error score	Result
4 ms wind speed	Torque (aero)	0.044976	PASS
	RPM	0.000833	PASS
	Power coef. (CP)	0.002440	PASS
	Thrust coef. (CT)	0.093403	PASS
	Tip speed	0.006571	PASS
	Power (electrical)	0.033883	PASS
5 ms wind speed	Torque (aero)	0.069572	PASS
	RPM	0.001009	PASS
	Power coef. (CP)	0.023993	PASS
	Thrust coef. (CT)	0.036638	PASS
	Tip speed	0.006708	PASS
	Power (electrical)	0.067550	PASS
6 ms wind speed	Torque (aero)	0.067712	PASS
	RPM	0.000407	PASS
	Power coef. (CP)	0.021425	PASS
	Thrust coef. (CT)	0.006055	PASS
	Tip speed	0.006225	PASS
	Power (electrical)	0.067129	PASS
7 ms wind speed	Torque (aero)	0.055679	PASS
	RPM	0.001177	PASS
	Power coef. (CP)	0.007815	PASS
	Thrust coef. (CT)	0.013582	PASS
	Tip speed	0.004696	PASS
	Power (electrical)	0.053669	PASS
8 ms wind speed	Torque (aero)	0.054867	PASS
	RPM	0.002247	PASS
	Power coef. (CP)	0.010677	PASS
	Thrust coef. (CT)	0.011492	PASS
	Tip speed	0.007906	PASS
	Power (electrical)	0.054325	PASS
9 ms wind speed	Torque (aero)	0.057645	PASS
	RPM	0.003500	PASS

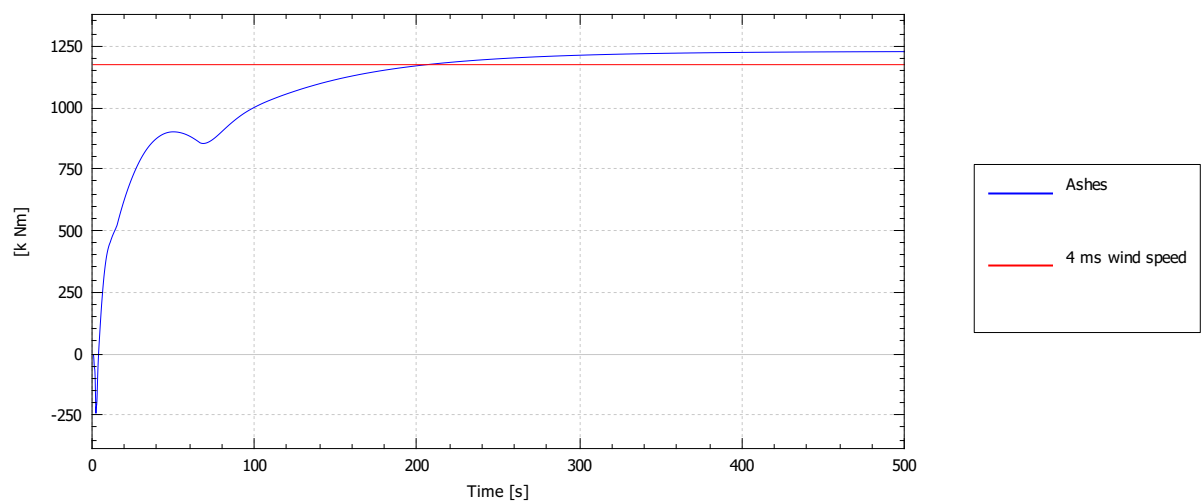
	Power coef. (CP)	0.014310	PASS
	Thrust coef. (CT)	0.006236	PASS
	Tip speed	0.009231	PASS
	Power (electrical)	0.055987	PASS
10 ms wind speed	Torque (aero)	0.060315	PASS
	RPM	0.004671	PASS
	Power coef. (CP)	0.018319	PASS
	Thrust coef. (CT)	0.001294	PASS
	Tip speed	0.010461	PASS
	Power (electrical)	0.058042	PASS
11 ms wind speed	Torque (aero)	0.005540	PASS
	RPM	0.000397	PASS
	Power coef. (CP)	0.038154	PASS
	Thrust coef. (CT)	0.065369	PASS
	Tip speed	0.006045	PASS
	Power (electrical)	0.000668	PASS
12 ms wind speed	Torque (aero)	0.004628	PASS
	RPM	0.000397	PASS
	Power coef. (CP)	0.039085	PASS
	Thrust coef. (CT)	0.035132	PASS
	Tip speed	0.006150	PASS
	Power (electrical)	0.000667	PASS
13 ms wind speed	Torque (aero)	0.004145	PASS
	RPM	0.000397	PASS
	Power coef. (CP)	0.039422	PASS
	Thrust coef. (CT)	0.017961	PASS
	Tip speed	0.006045	PASS
	Power (electrical)	0.000668	PASS
14 ms wind speed	Torque (aero)	0.003871	PASS
	RPM	0.000398	PASS
	Power coef. (CP)	0.039545	PASS
	Thrust coef. (CT)	0.004030	PASS
	Tip speed	0.006046	PASS
	Power (electrical)	0.000668	PASS
15 ms wind speed	Torque (aero)	0.003723	PASS
	RPM	0.000398	PASS
	Power coef. (CP)	0.040138	PASS
	Thrust coef. (CT)	0.007890	PASS
	Tip speed	0.006045	PASS
	Power (electrical)	0.000668	PASS
17.5 ms wind speed	Torque (aero)	0.003716	PASS
	RPM	0.000400	PASS

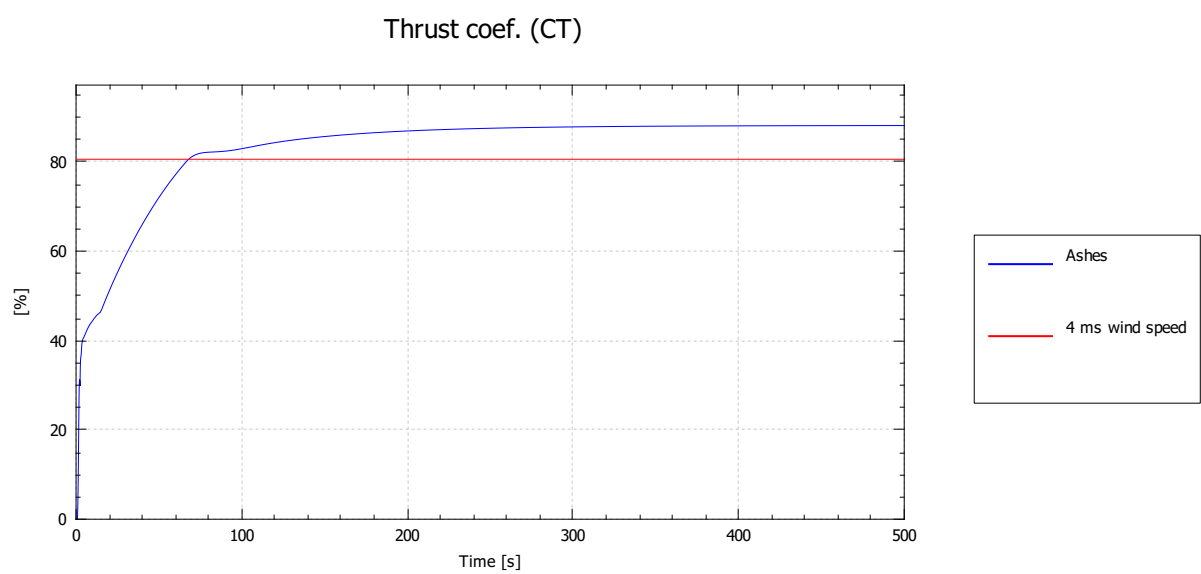
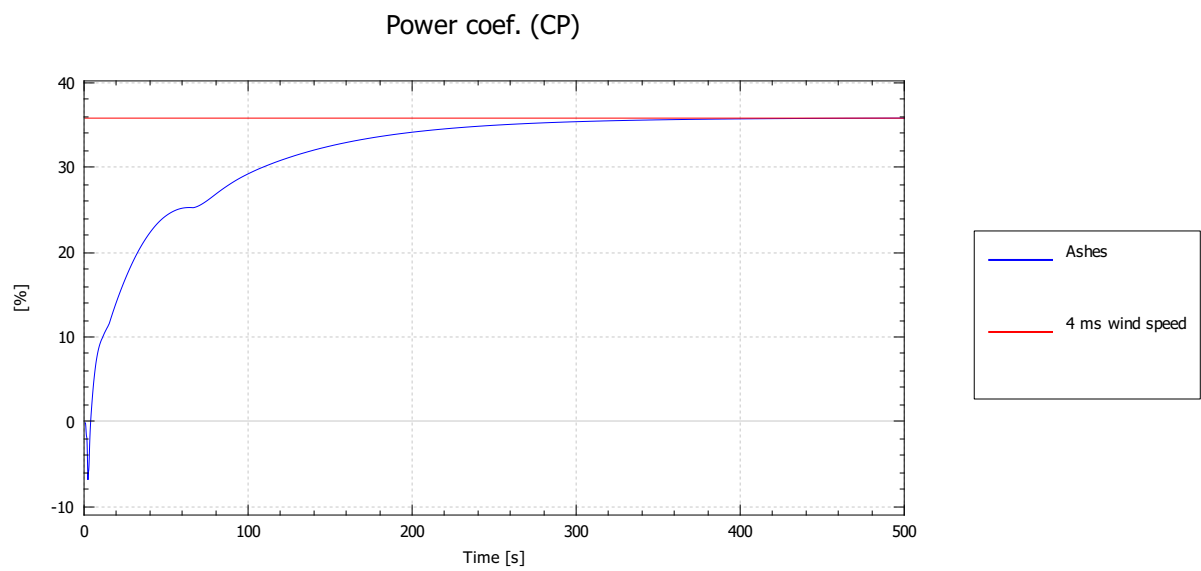
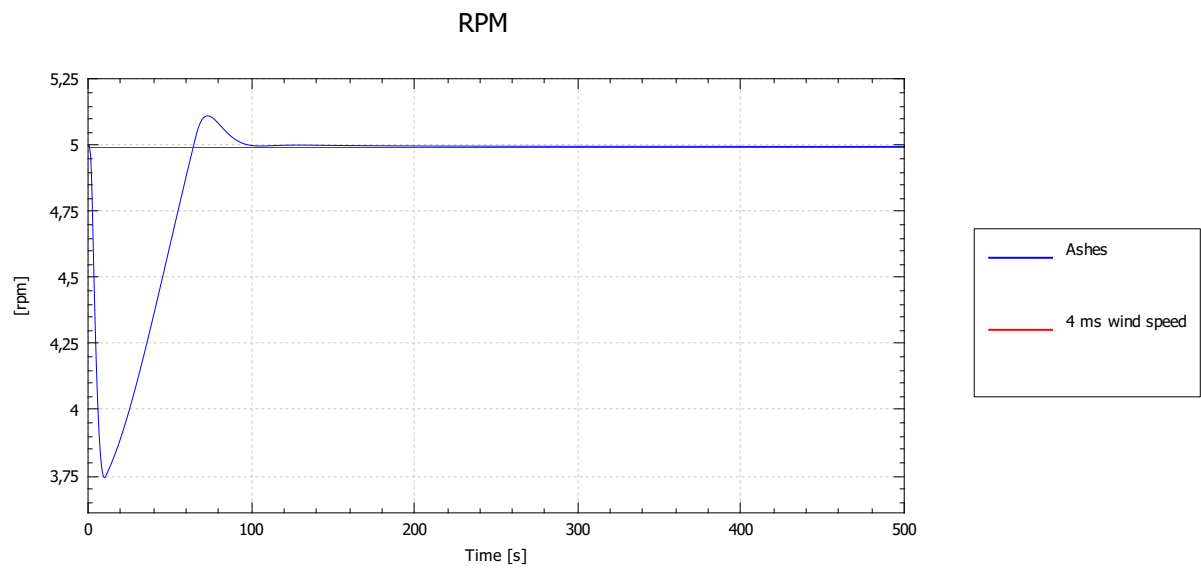
	Power coef. (CP)	0.040357	PASS
	Thrust coef. (CT)	0.032192	PASS
	Tip speed	0.006047	PASS
	Power (electrical)	0.000670	PASS
20 ms wind speed	Torque (aero)	0.003879	PASS
	RPM	0.000400	PASS
	Power coef. (CP)	0.040120	PASS
	Thrust coef. (CT)	0.052469	PASS
	Tip speed	0.006048	PASS
	Power (electrical)	0.000671	PASS
22.5 ms wind speed	Torque (aero)	0.003568	PASS
	RPM	0.000269	PASS
	Power coef. (CP)	0.039967	PASS
	Thrust coef. (CT)	0.070185	PASS
	Tip speed	0.005943	PASS
	Power (electrical)	0.000007	PASS
25 ms wind speed	Torque (aero)	0.003572	PASS
	RPM	0.000137	PASS
	Power coef. (CP)	0.039862	PASS
	Thrust coef. (CT)	0.086038	PASS
	Tip speed	0.005837	PASS
	Power (electrical)	0.000006	PASS

Load case: 4 ms wind speed

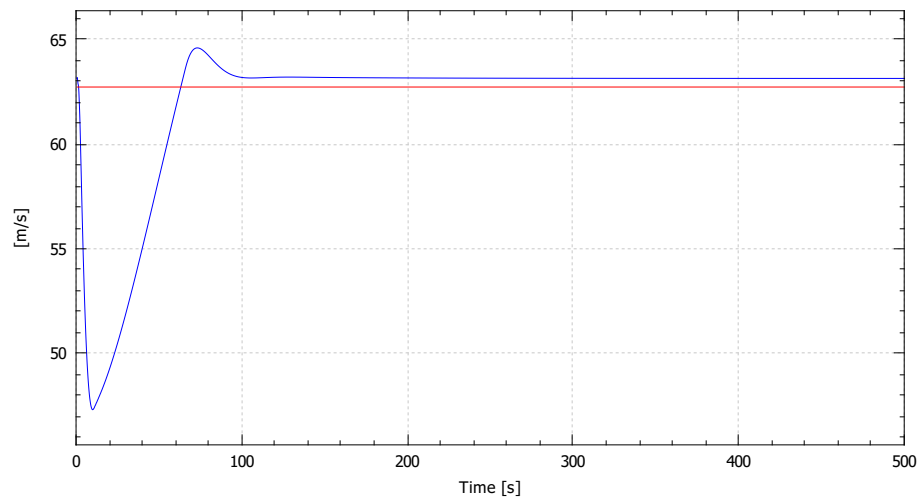
Rotor

Torque (aero)



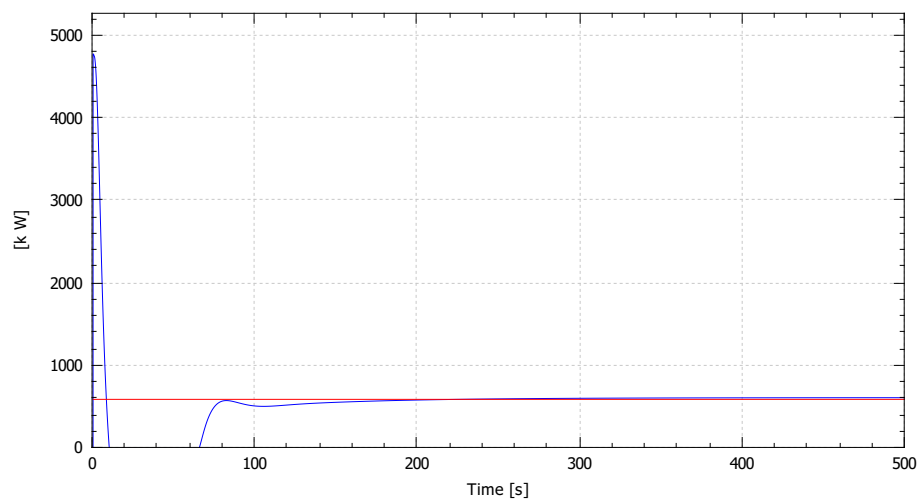


Tip speed



Generator

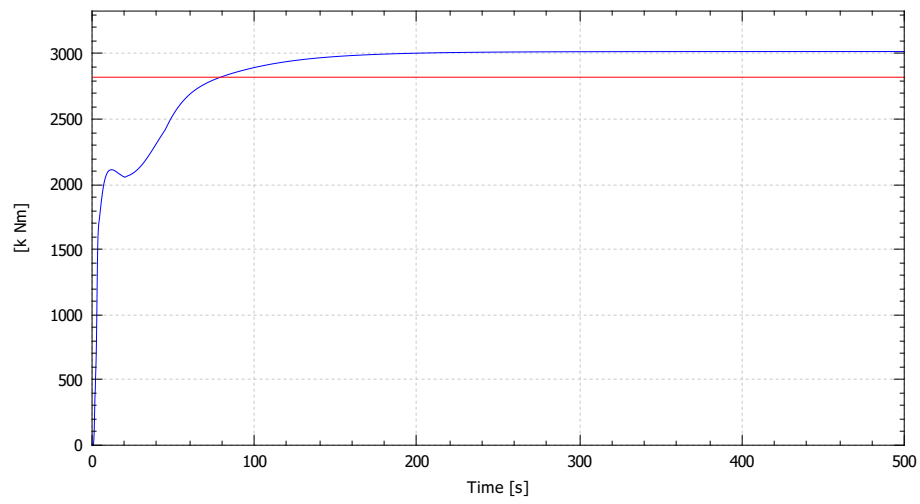
Power (electrical)



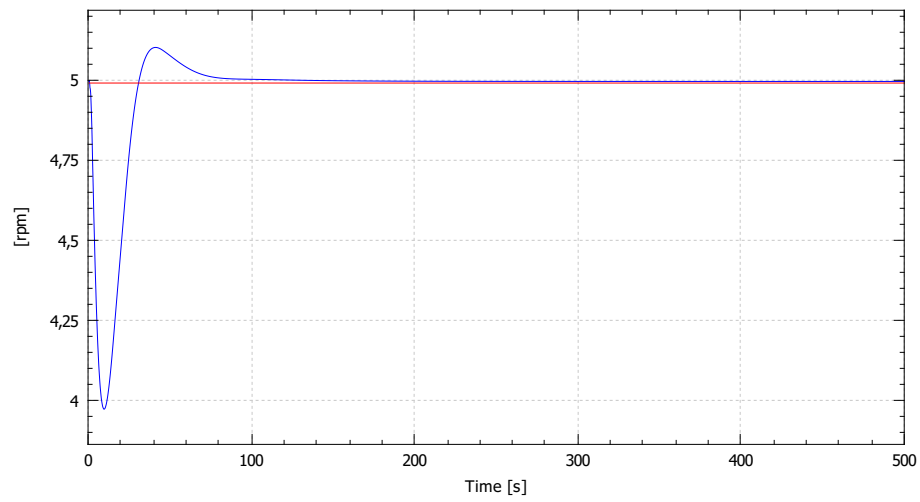
Load case: 5 ms wind speed

Rotor

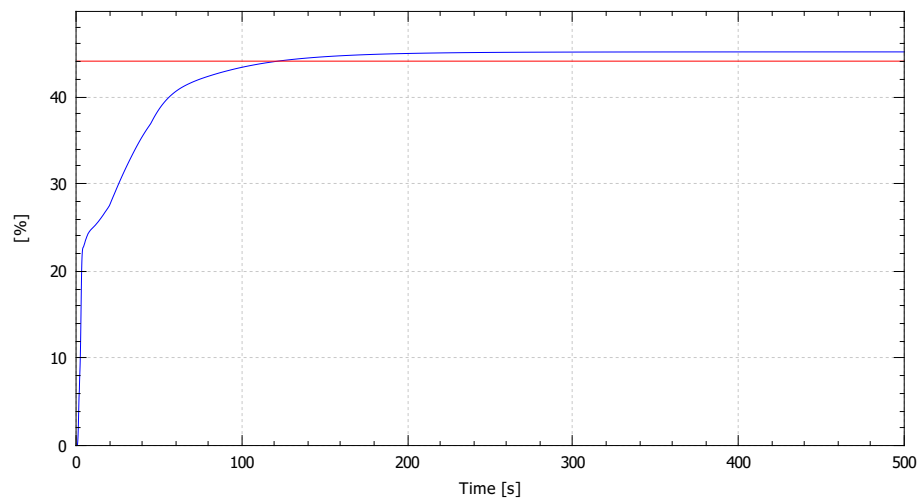
Torque (aero)



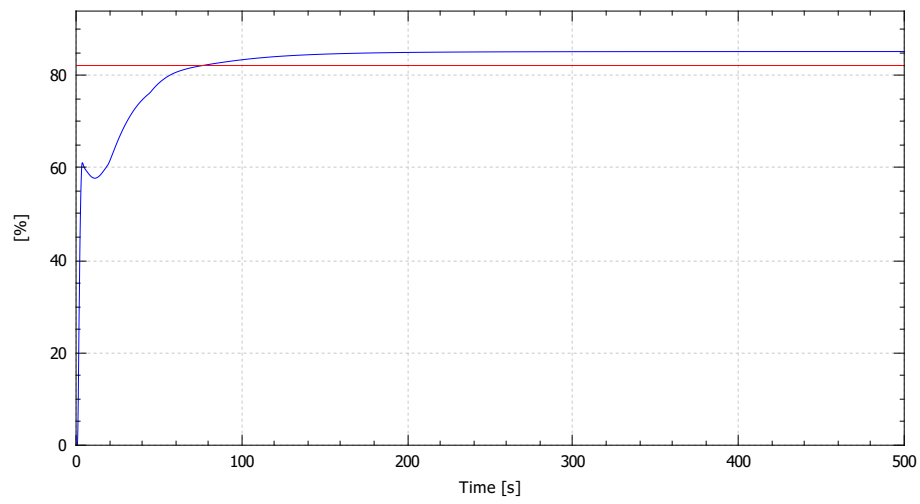
RPM



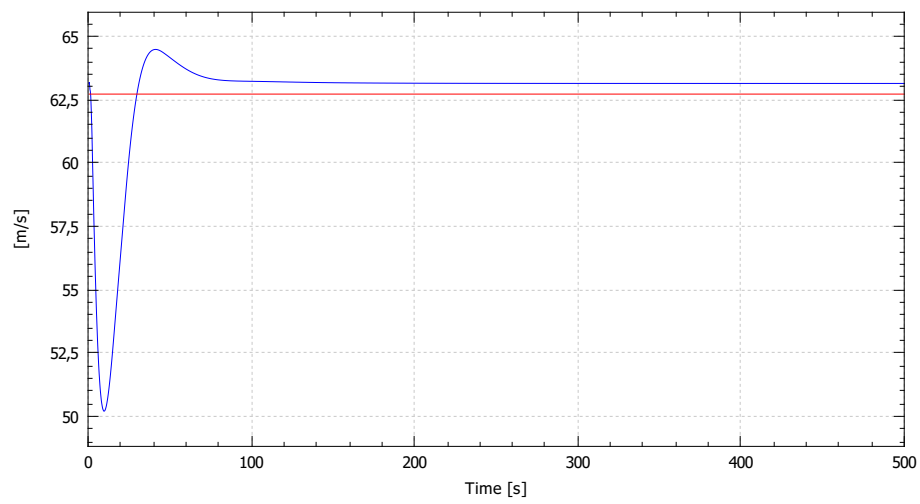
Power coef. (CP)



Thrust coef. (CT)

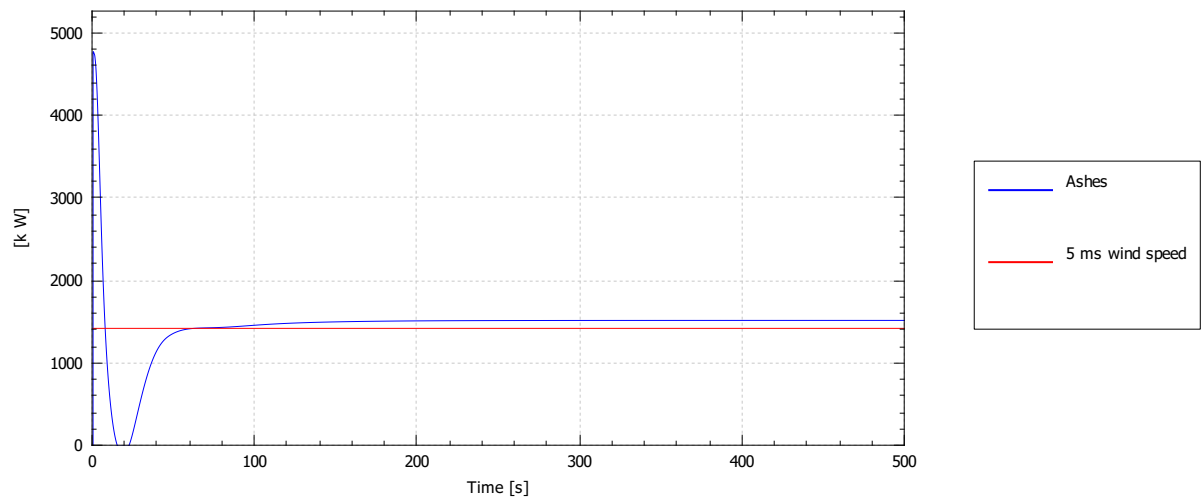


Tip speed



Generator

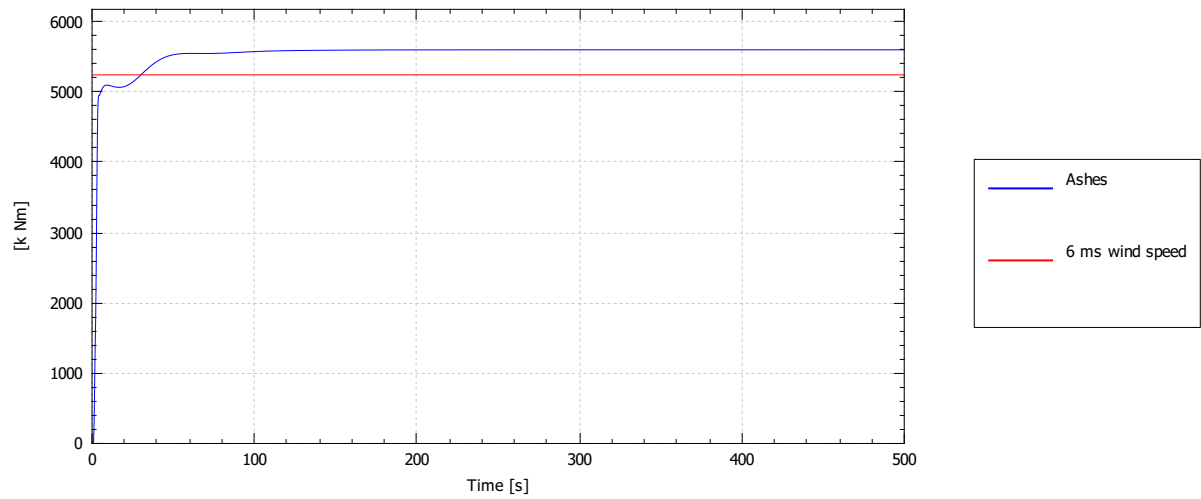
Power (electrical)

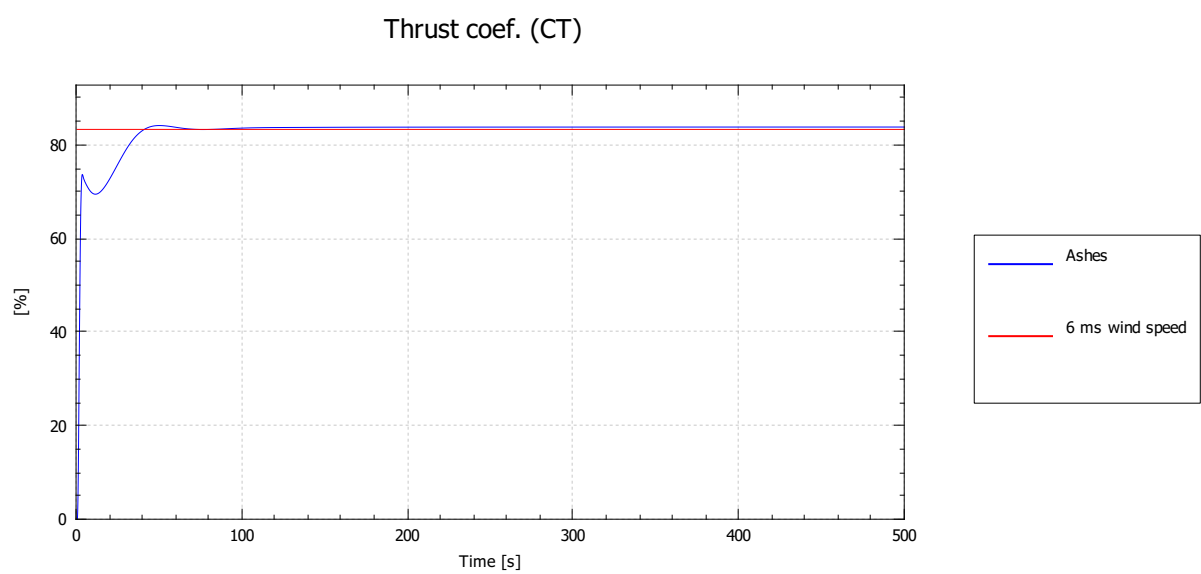
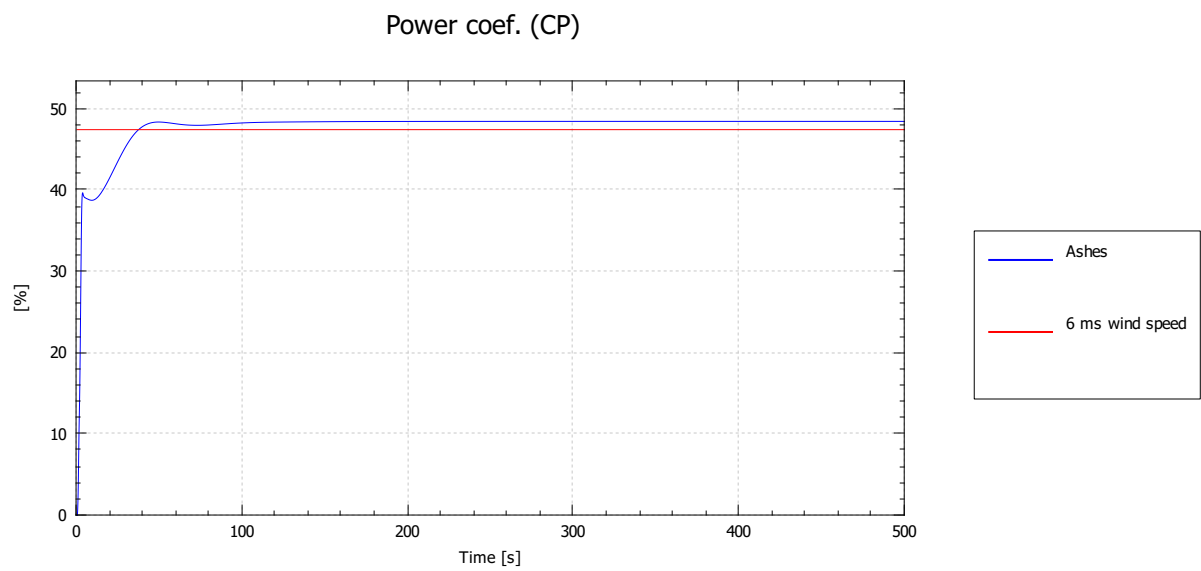
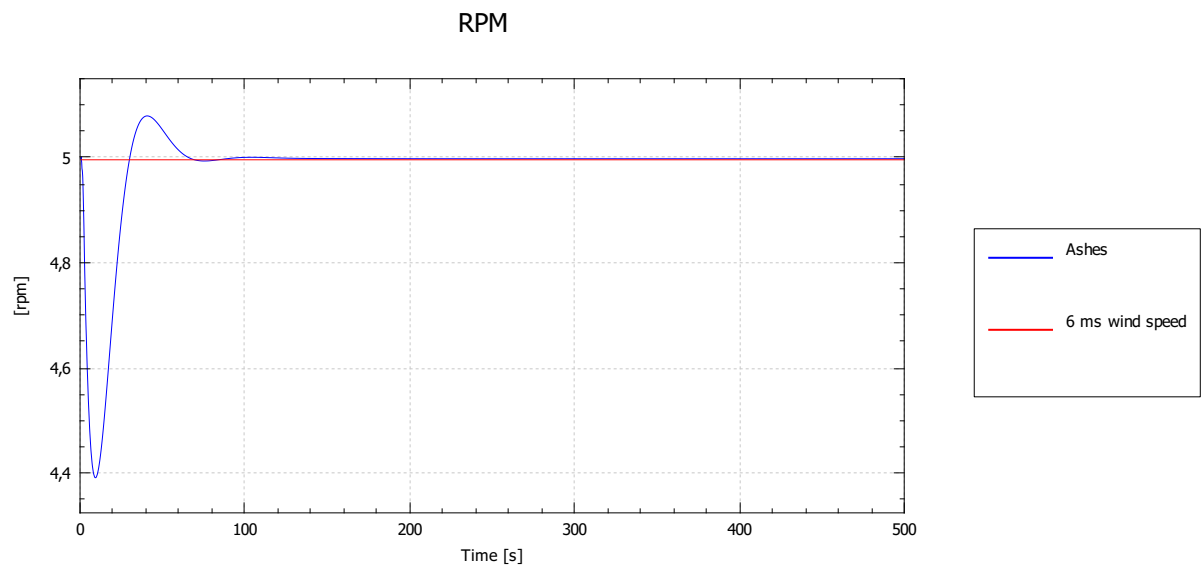


Load case: 6 ms wind speed

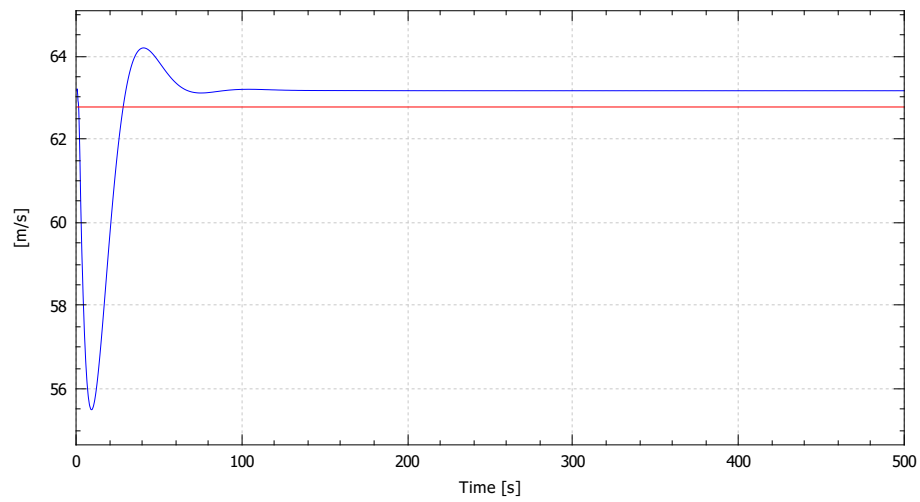
Rotor

Torque (aero)



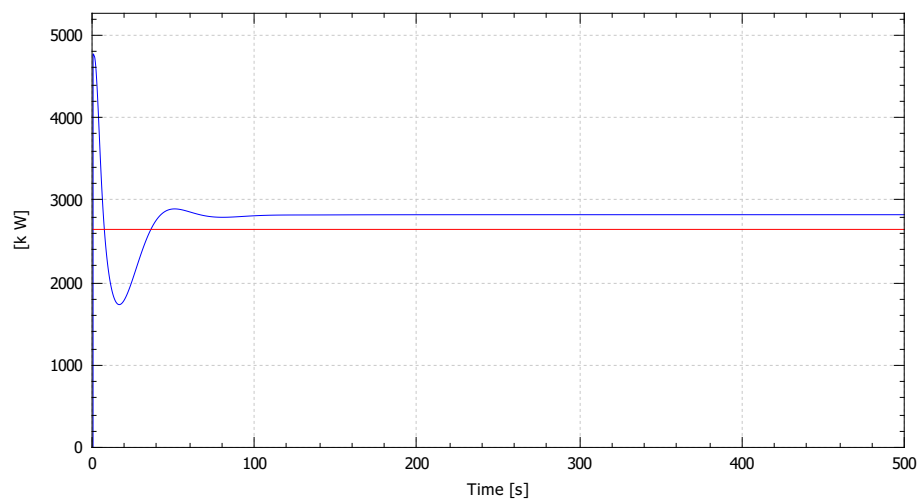


Tip speed



Generator

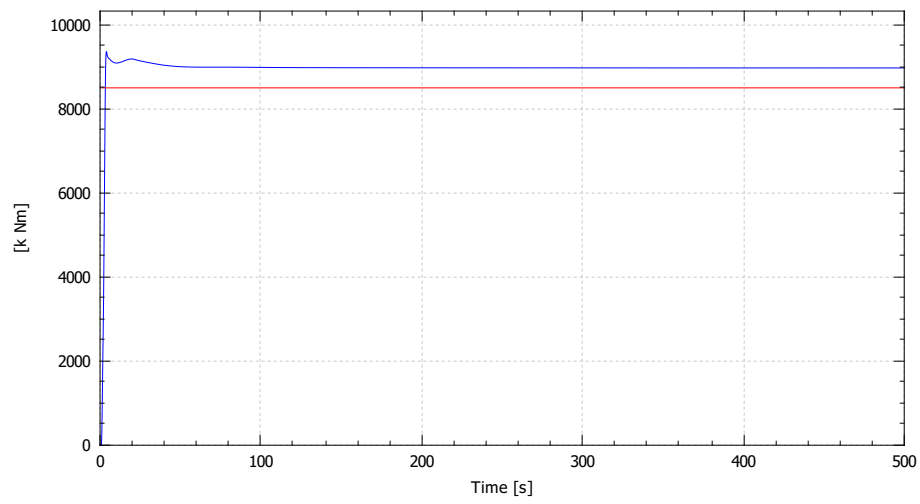
Power (electrical)



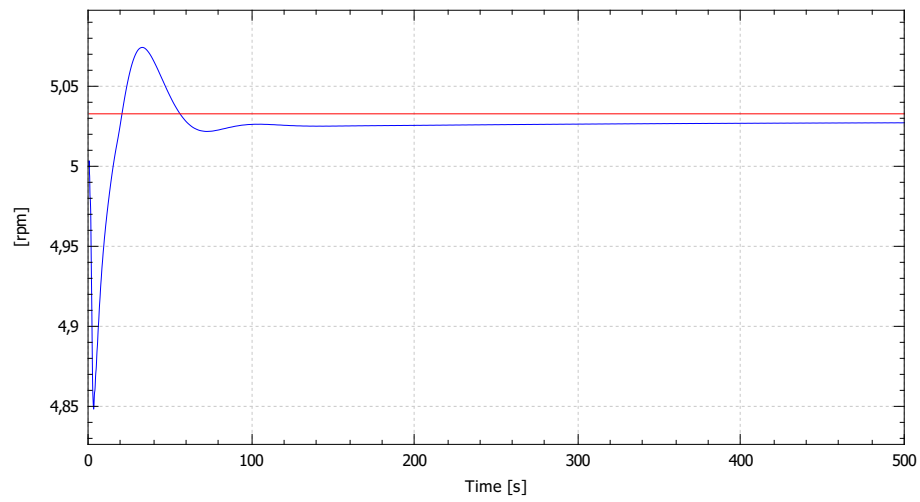
Load case: 7 ms wind speed

Rotor

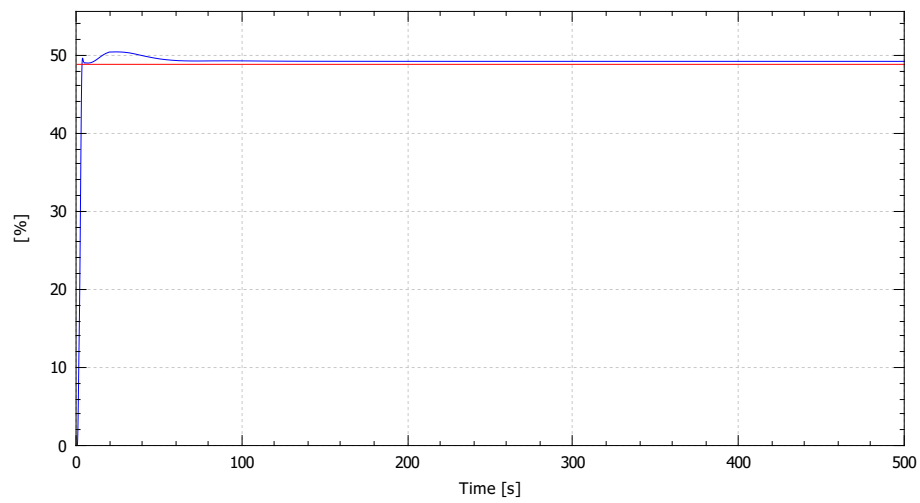
Torque (aero)



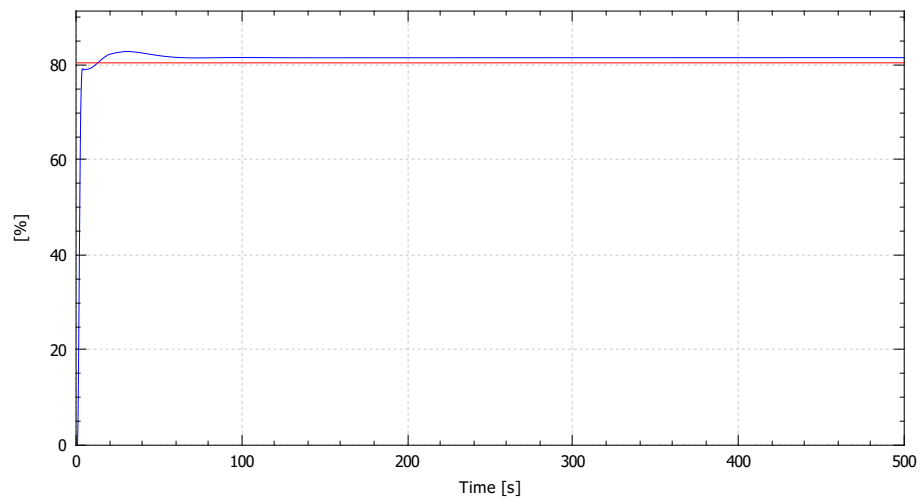
RPM



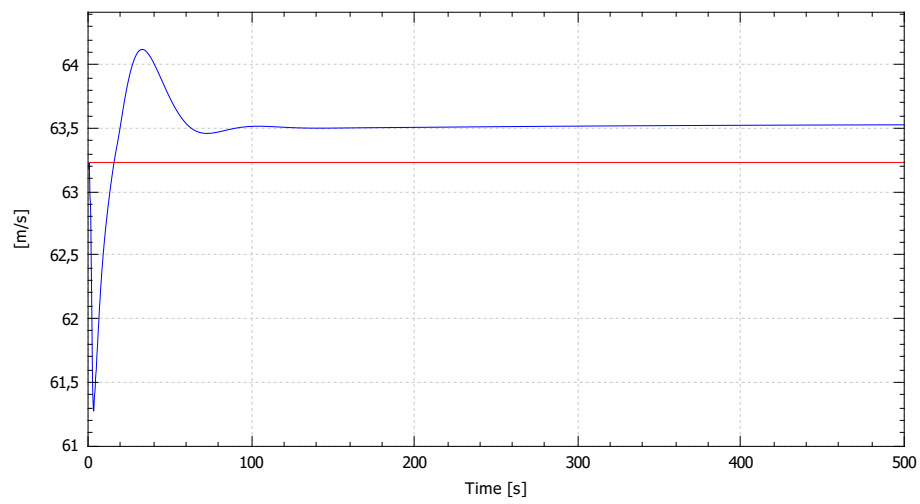
Power coef. (CP)



Thrust coef. (CT)

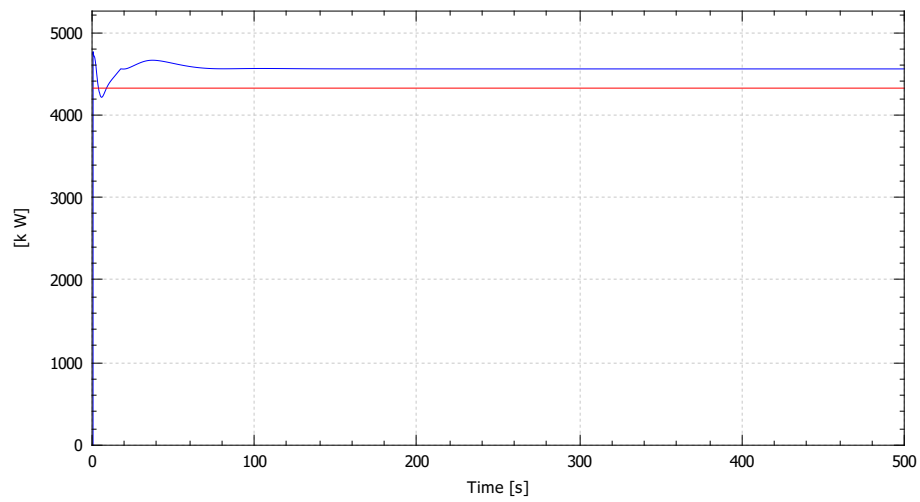


Tip speed



Generator

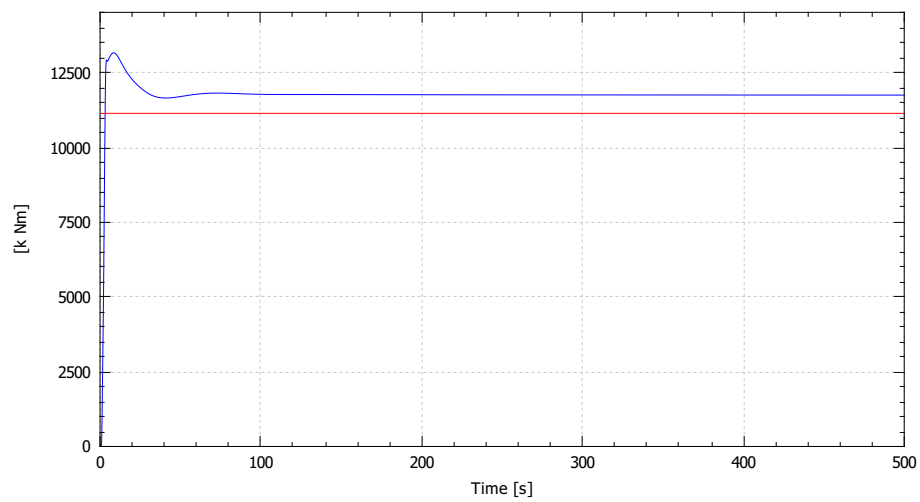
Power (electrical)

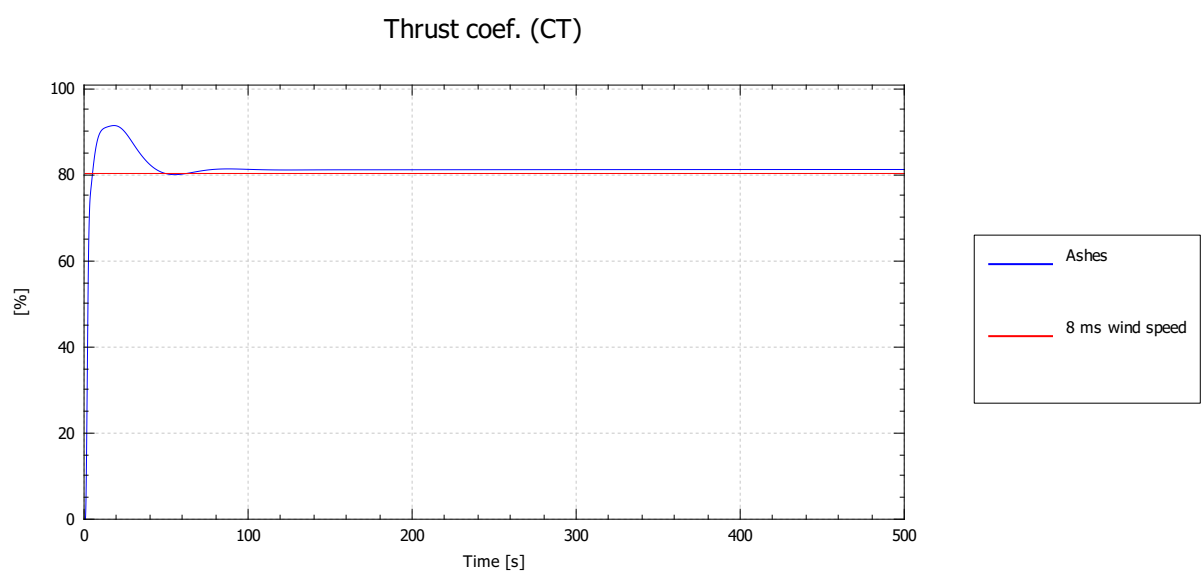
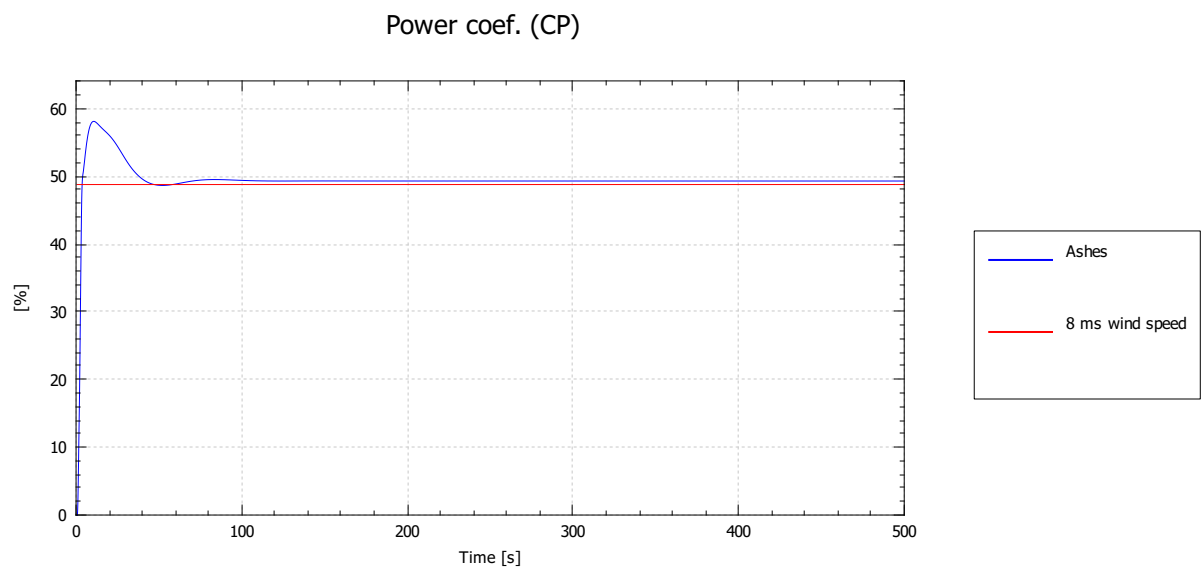
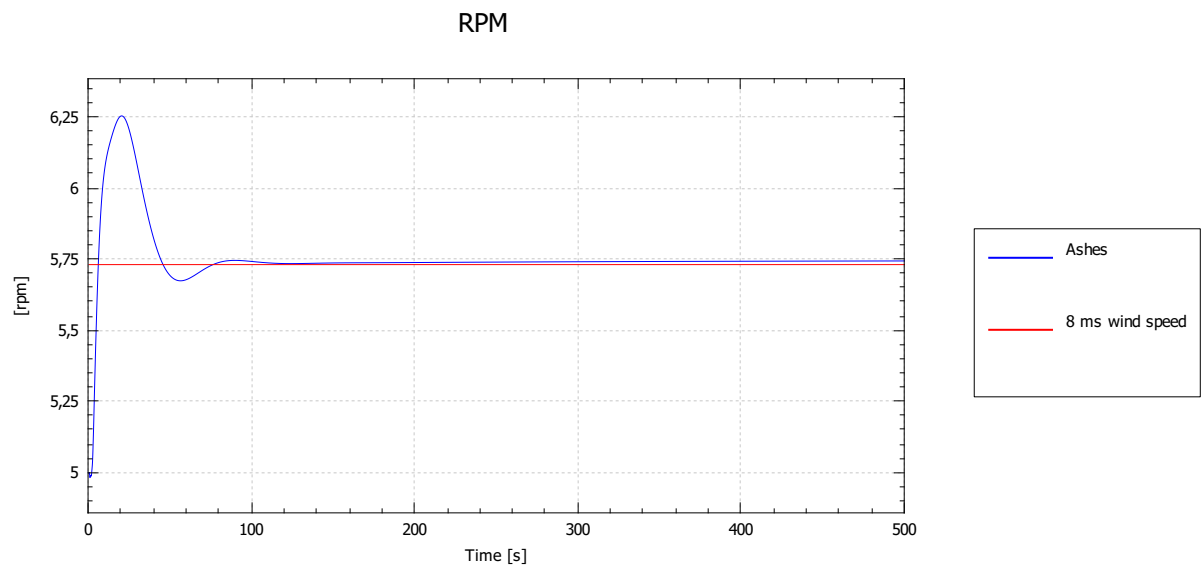


Load case: 8 ms wind speed

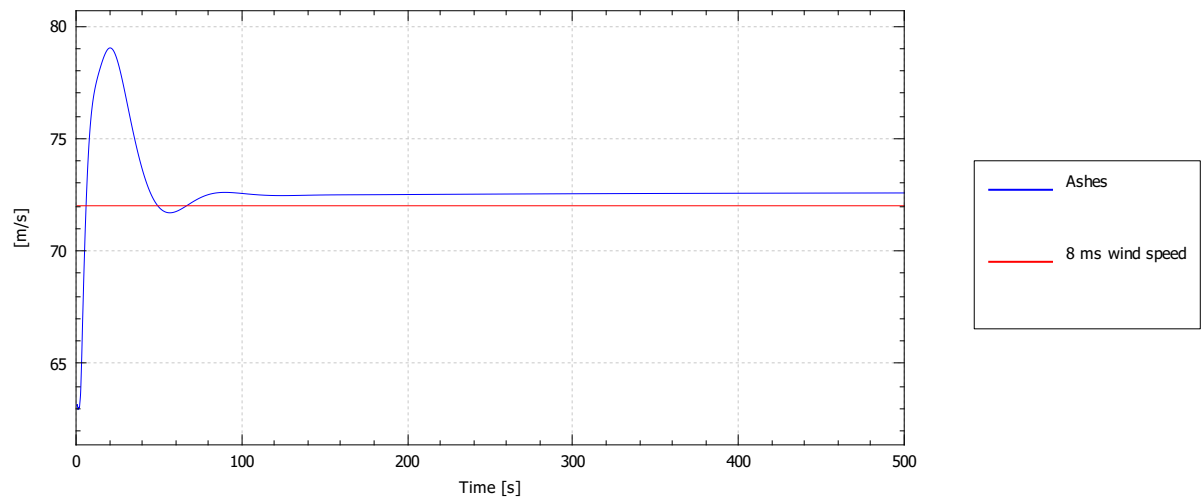
Rotor

Torque (aero)



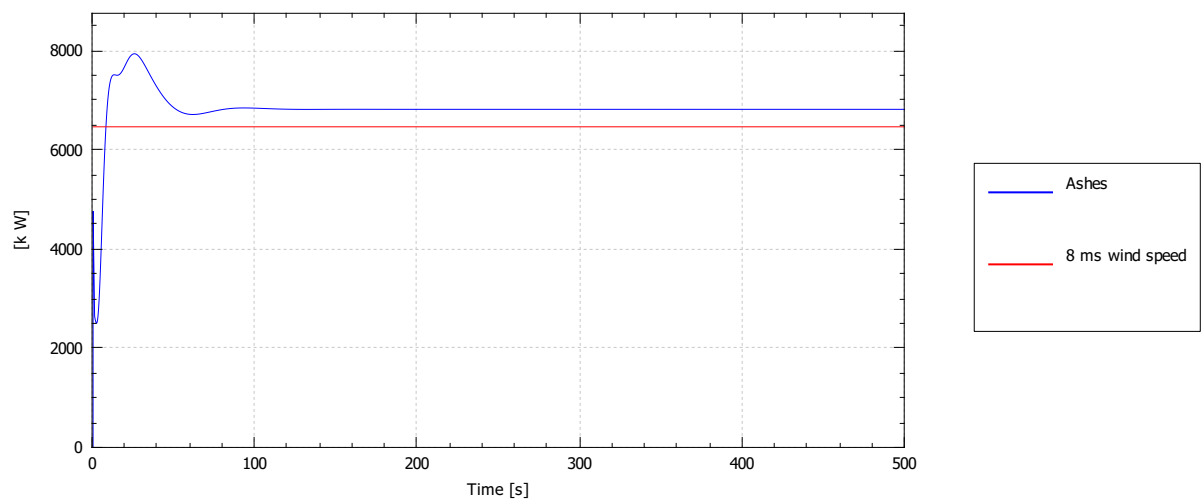


Tip speed



Generator

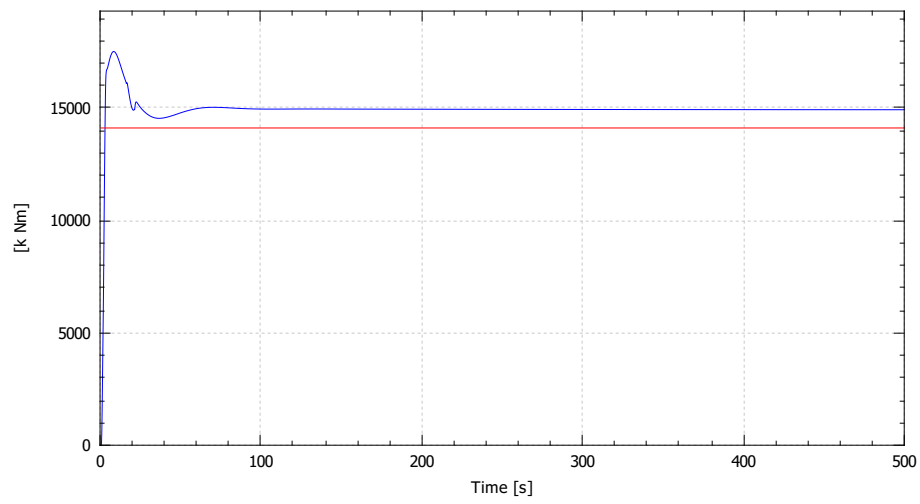
Power (electrical)



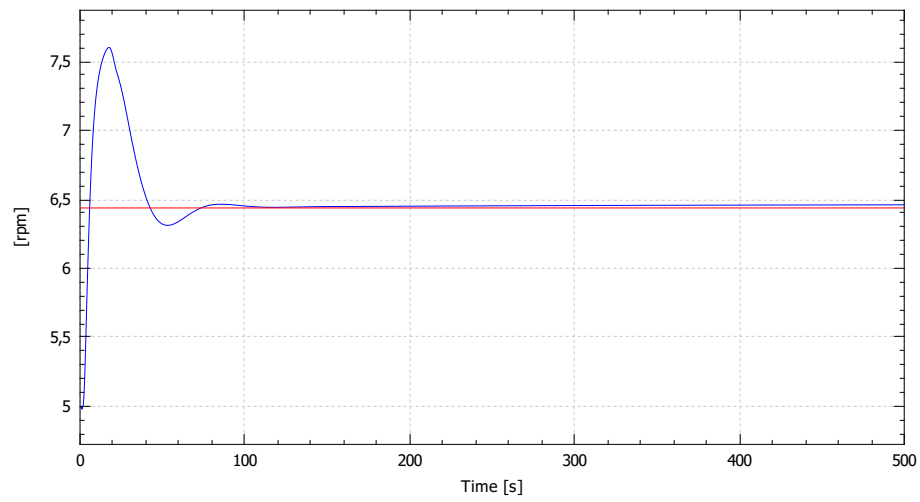
Load case: 9 ms wind speed

Rotor

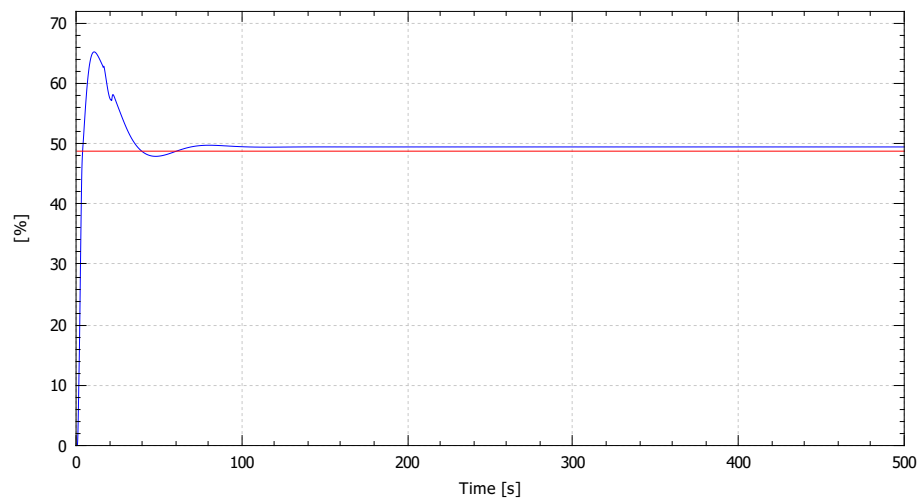
Torque (aero)



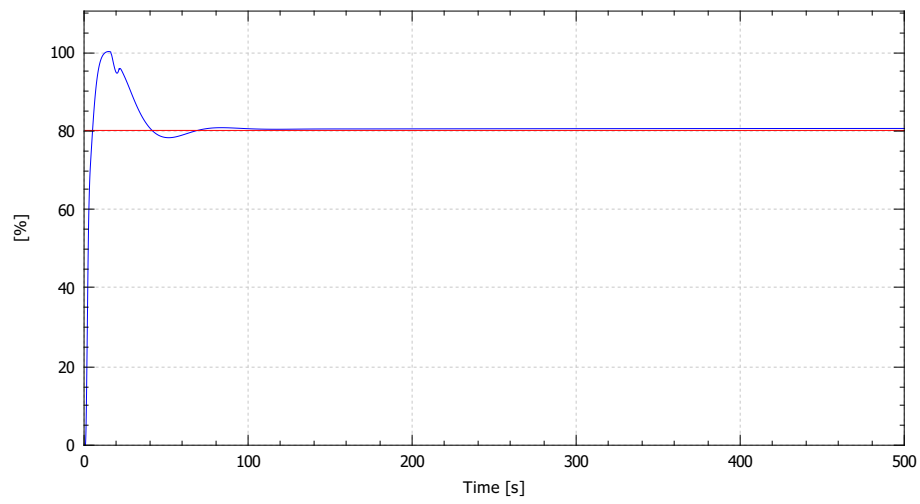
RPM



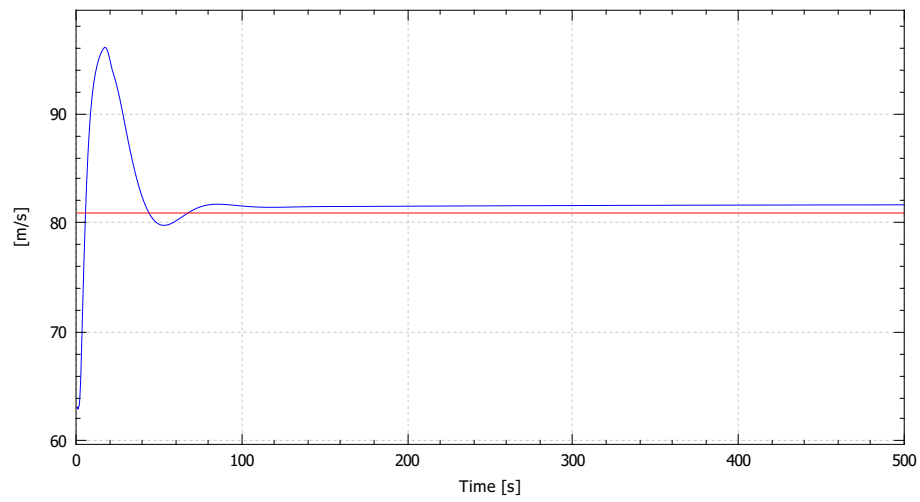
Power coef. (CP)



Thrust coef. (CT)

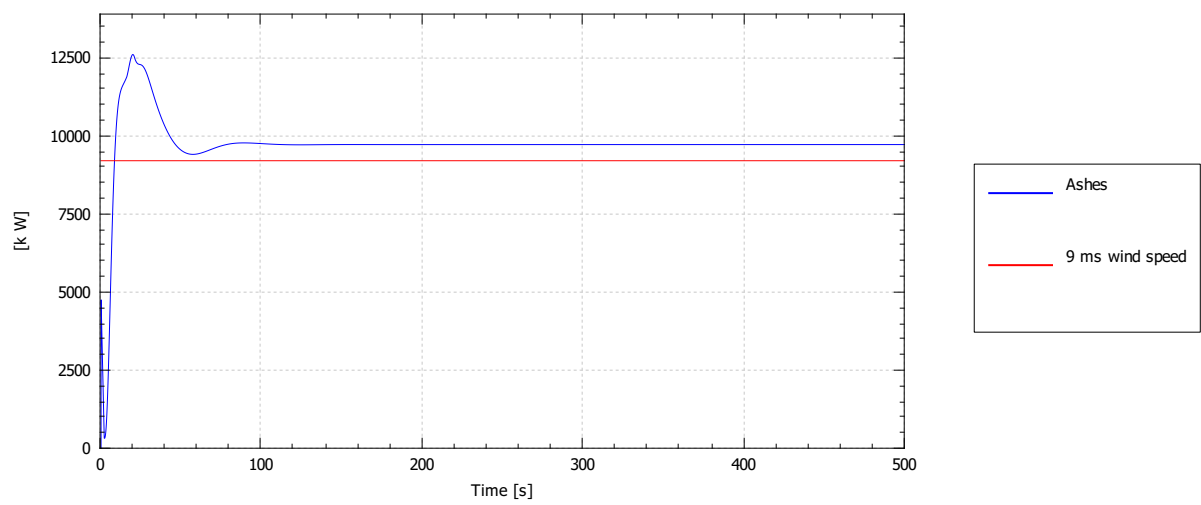


Tip speed



Generator

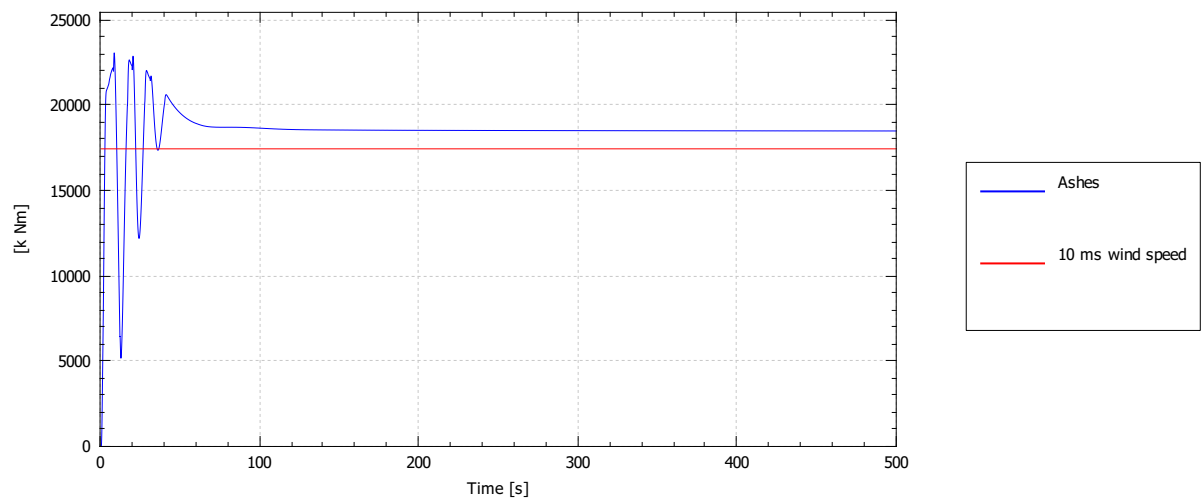
Power (electrical)

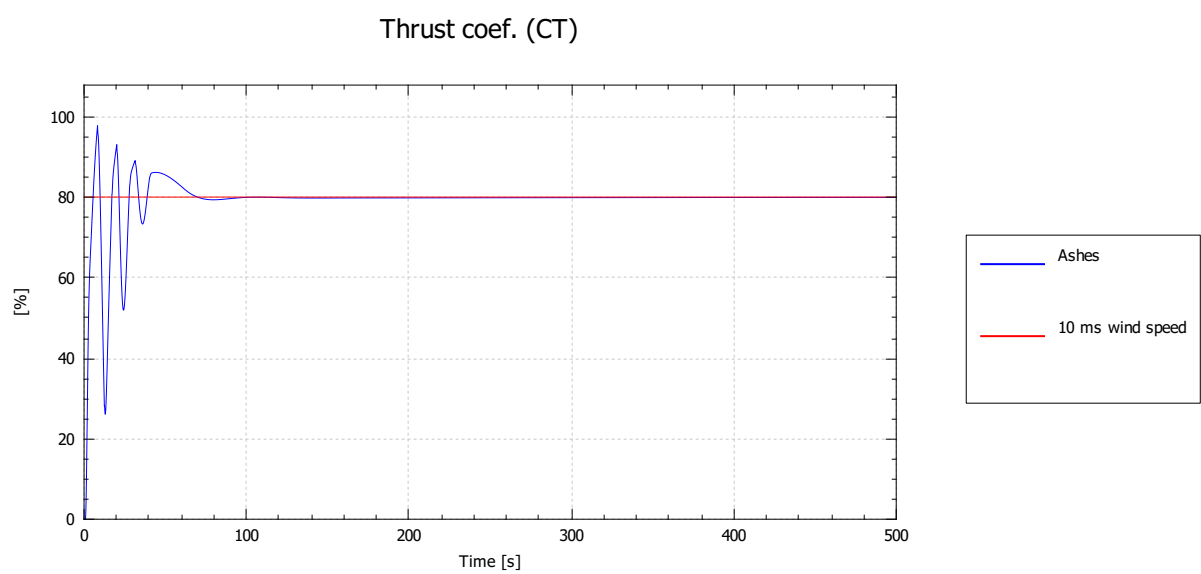
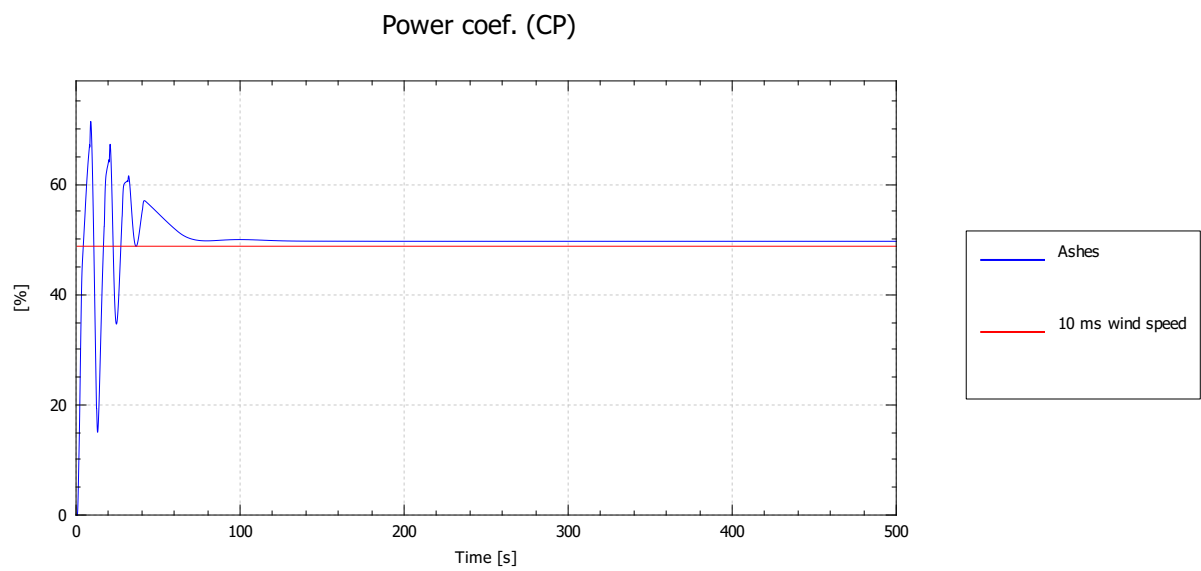
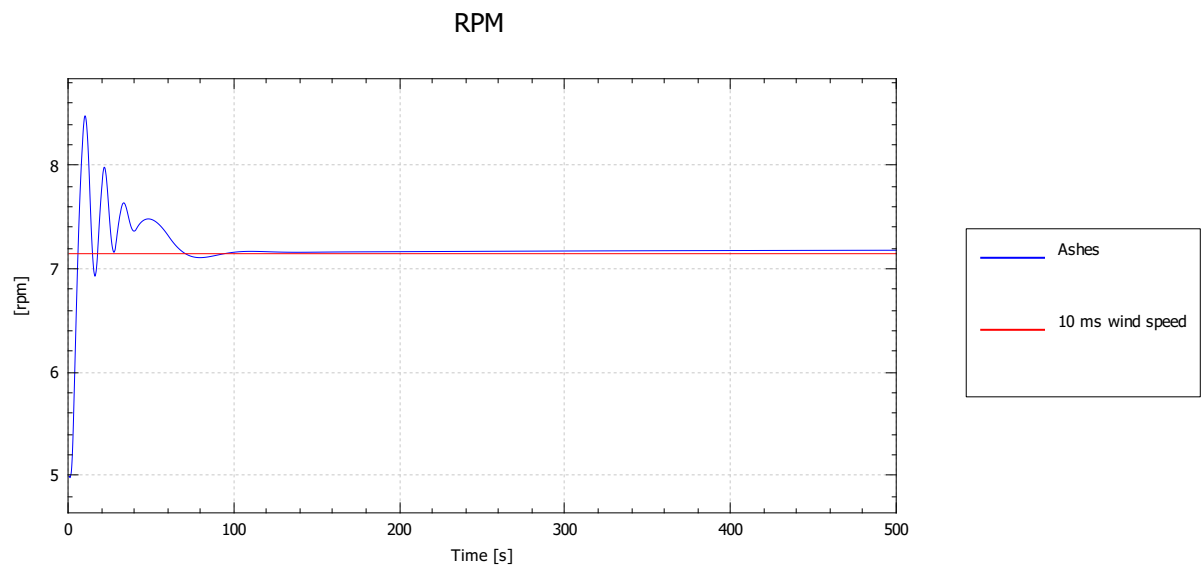


Load case: 10 ms wind speed

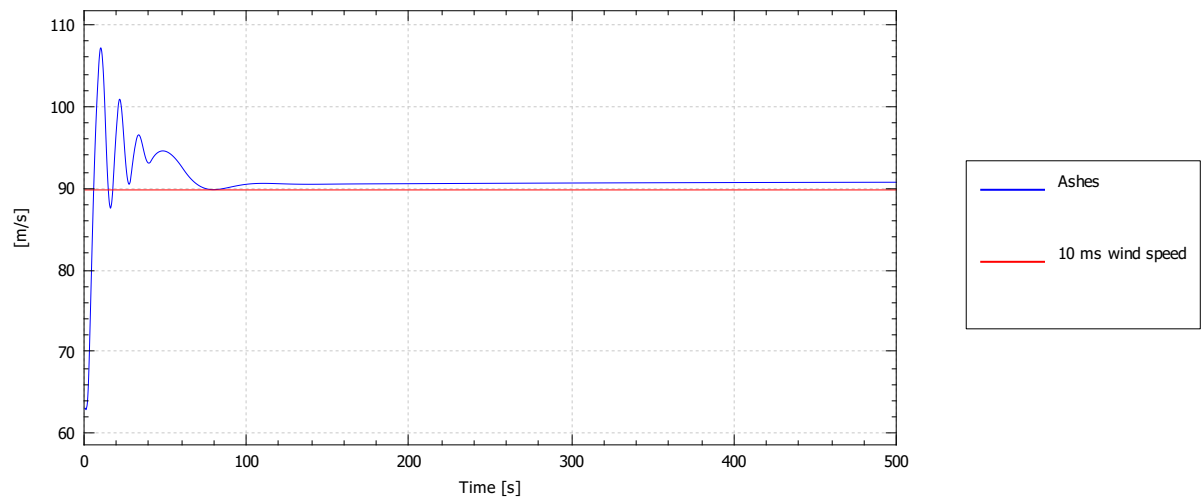
Rotor

Torque (aero)



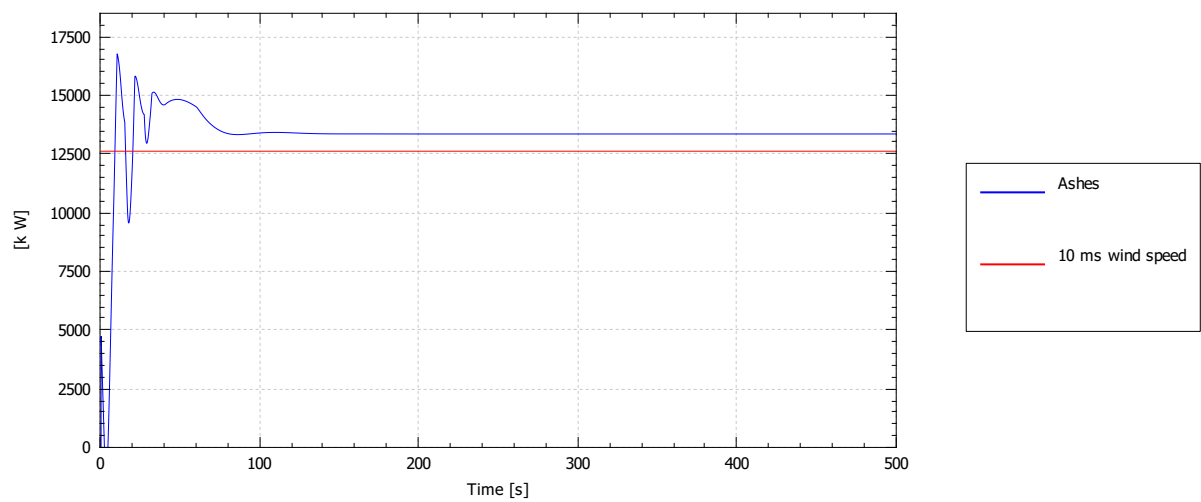


Tip speed



Generator

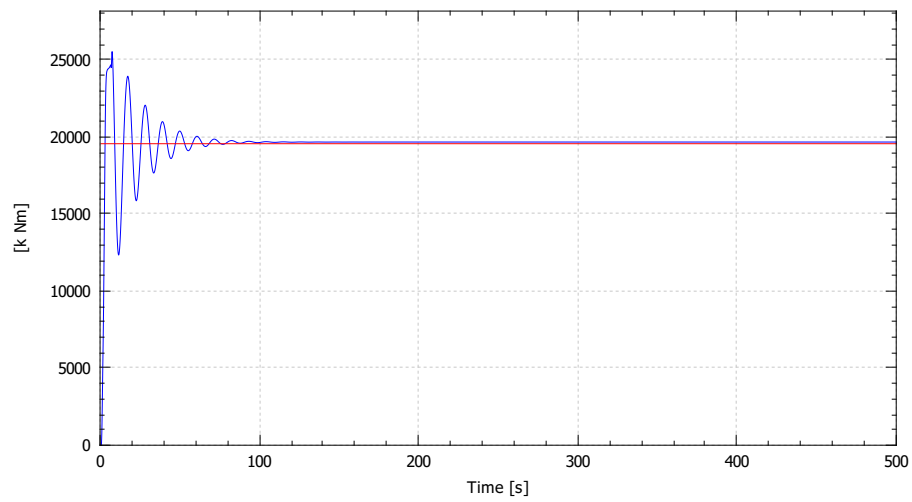
Power (electrical)



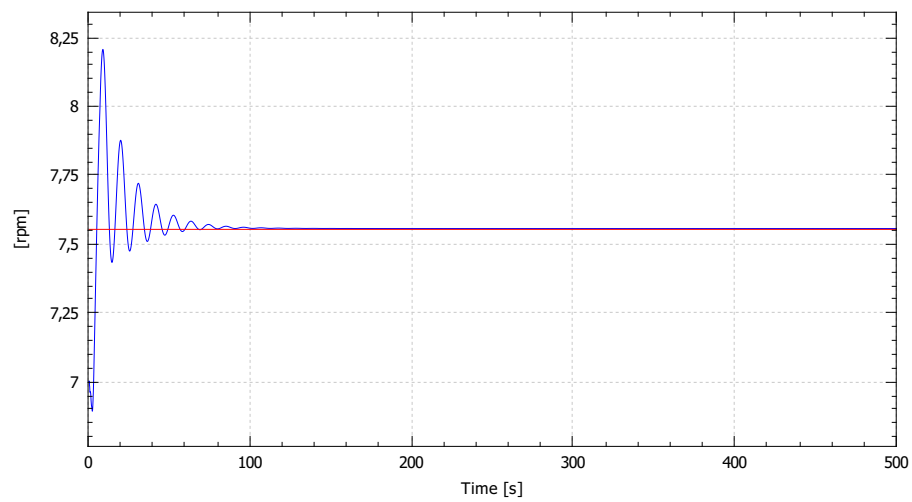
Load case: 11 ms wind speed

Rotor

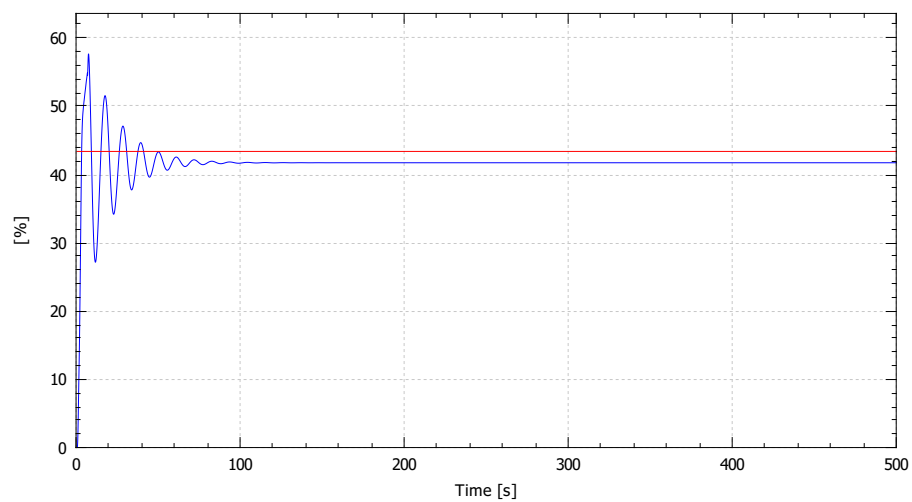
Torque (aero)



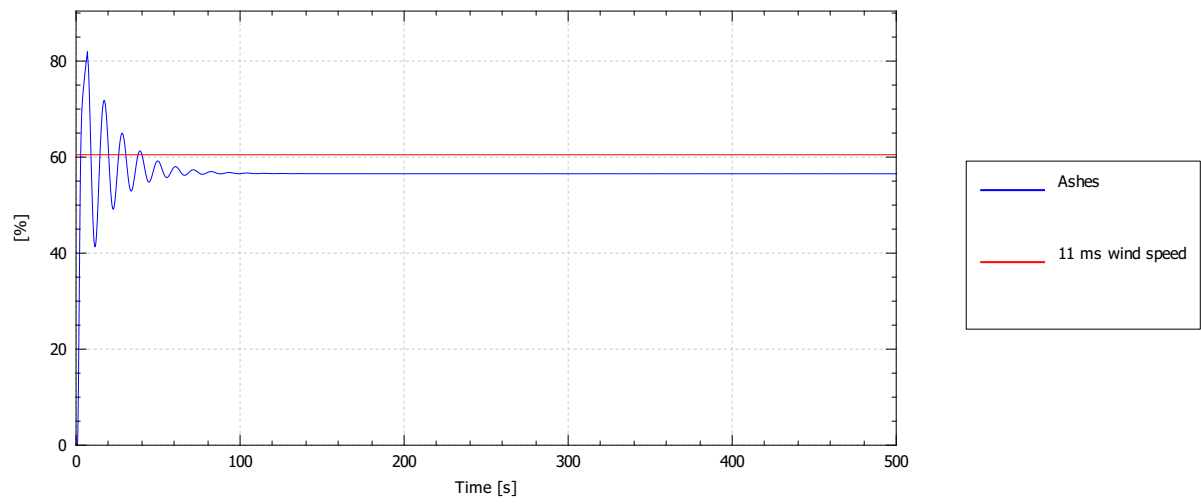
RPM



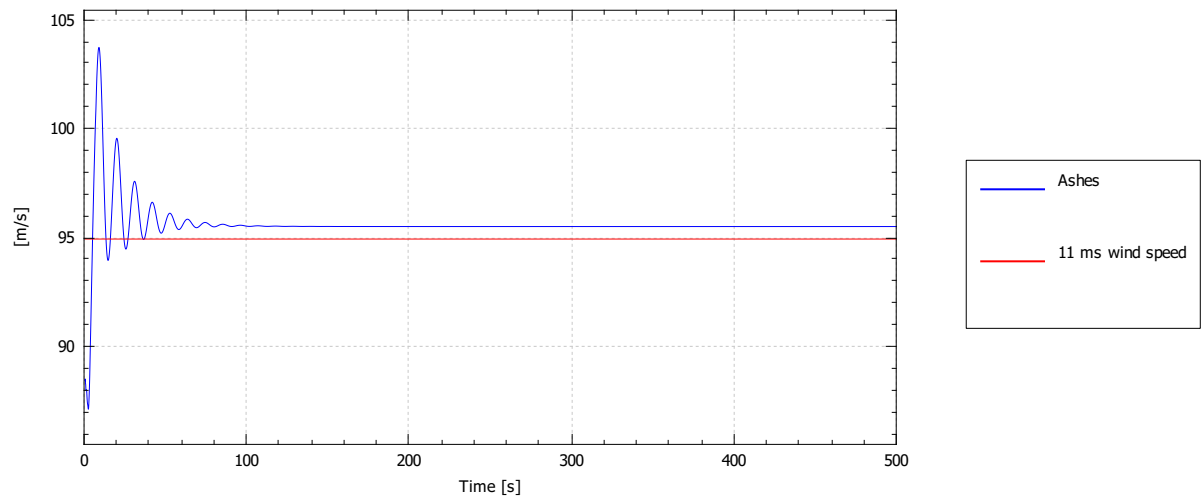
Power coef. (CP)



Thrust coef. (CT)

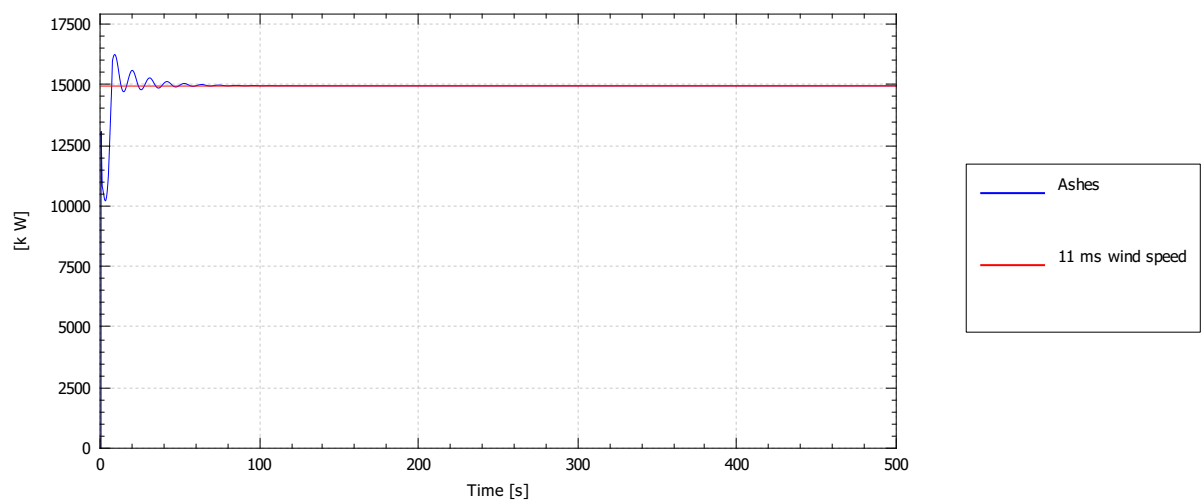


Tip speed



Generator

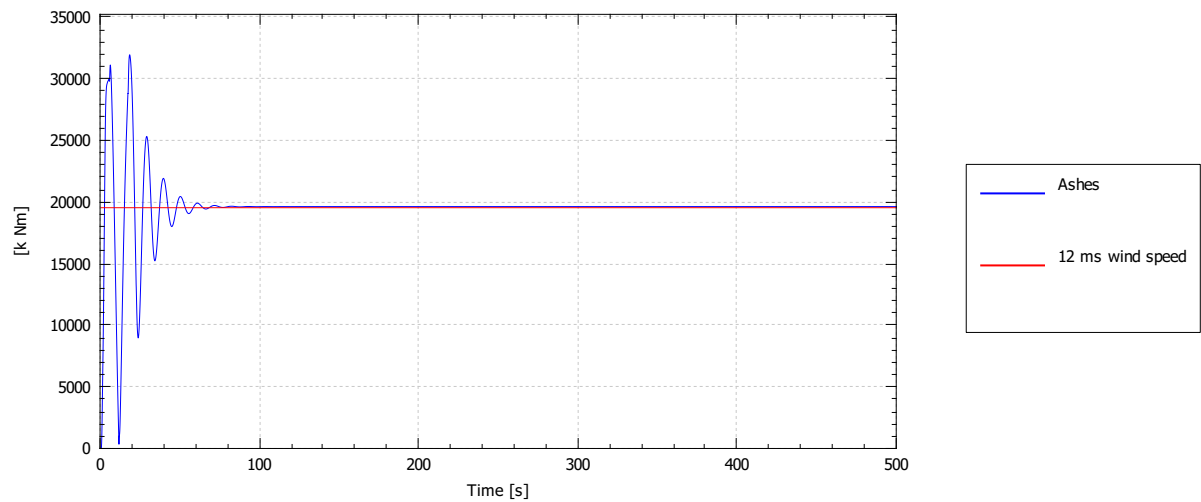
Power (electrical)

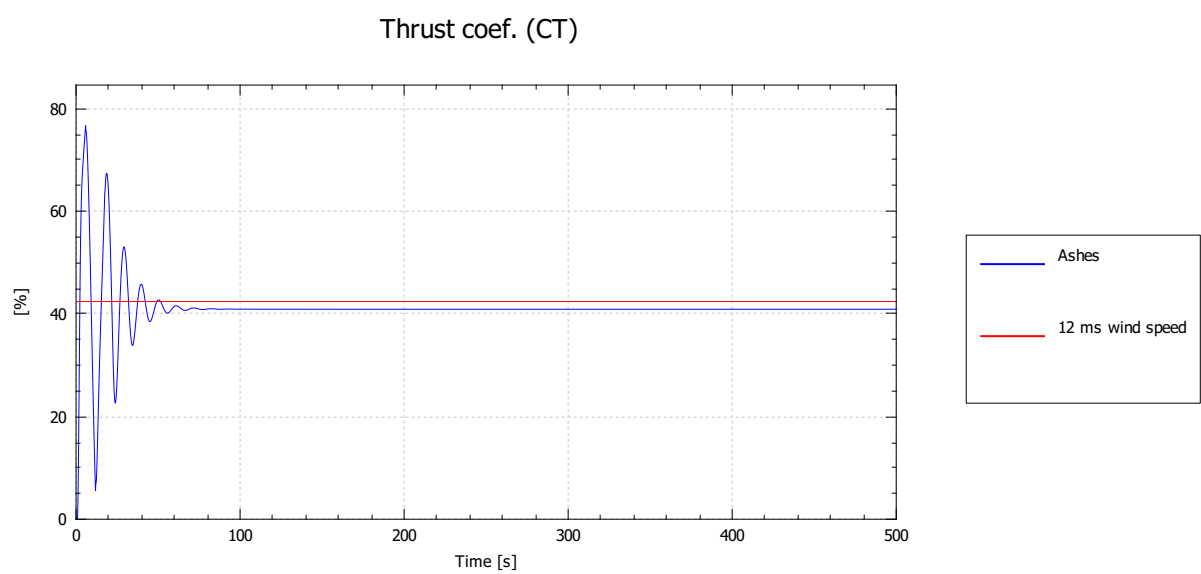
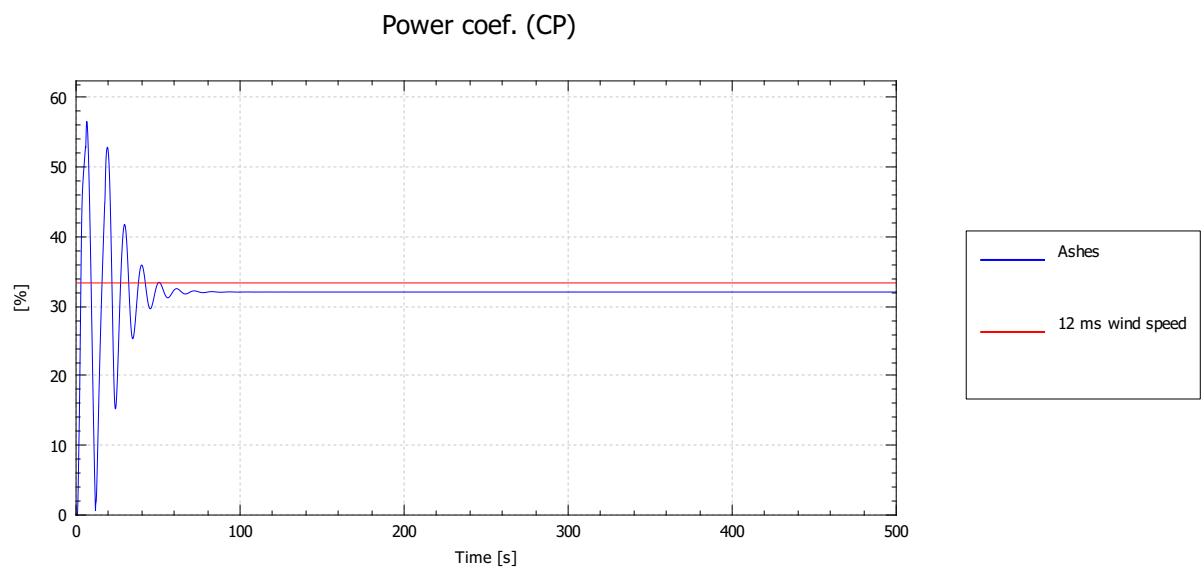
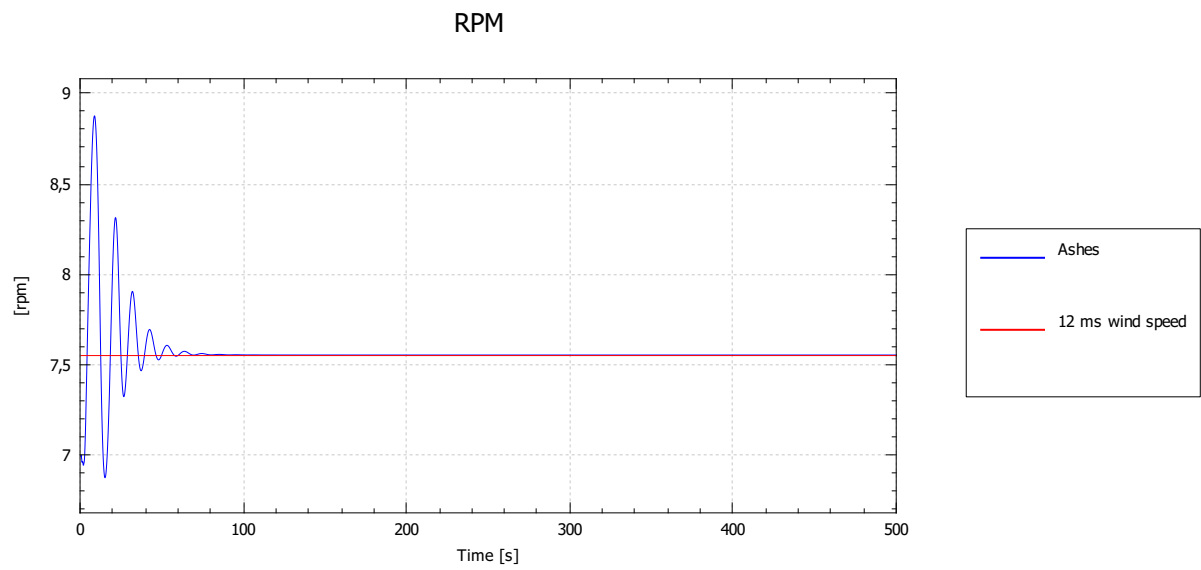


Load case: 12 ms wind speed

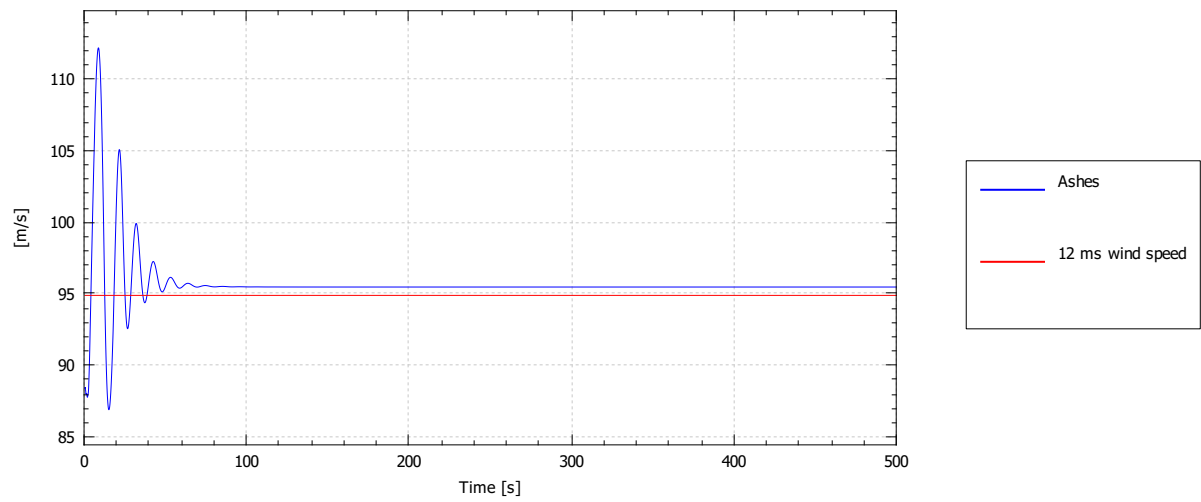
Rotor

Torque (aero)



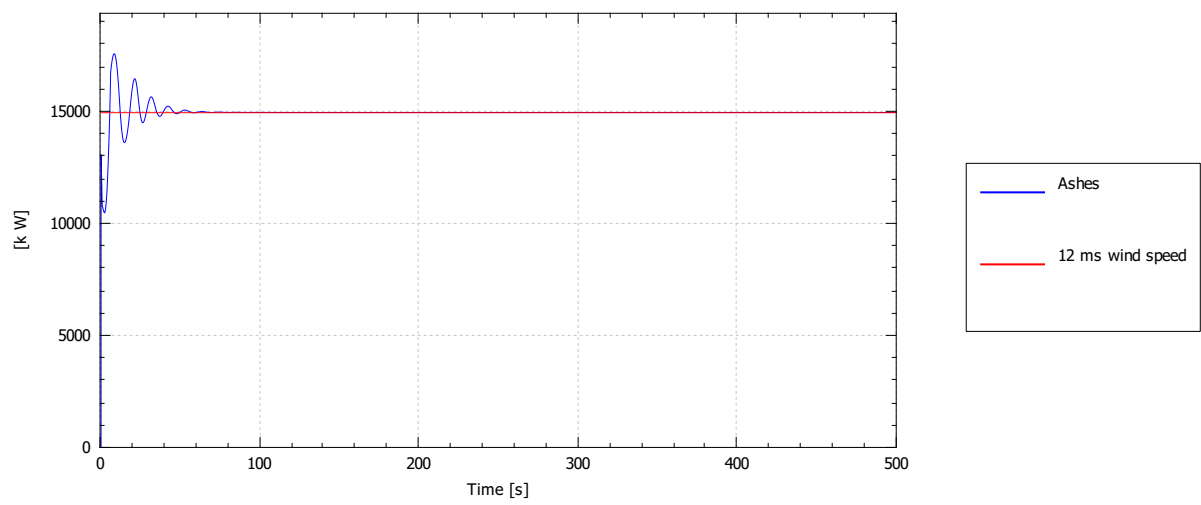


Tip speed



Generator

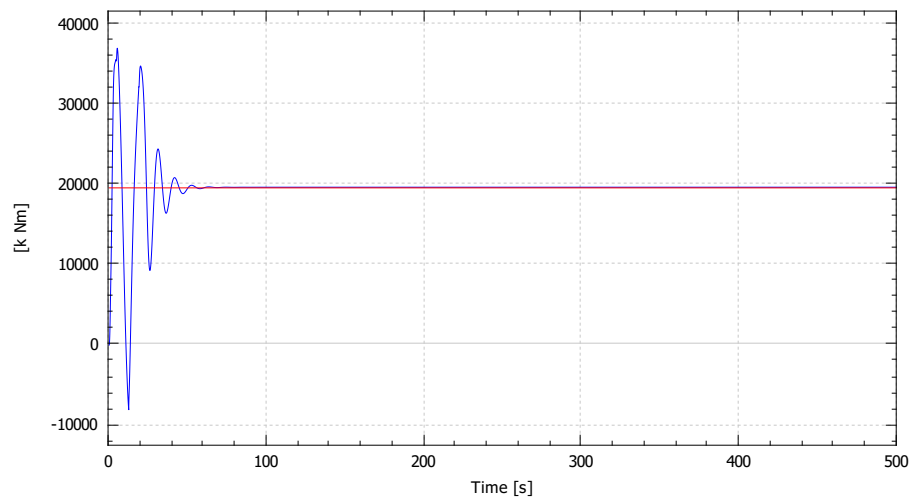
Power (electrical)



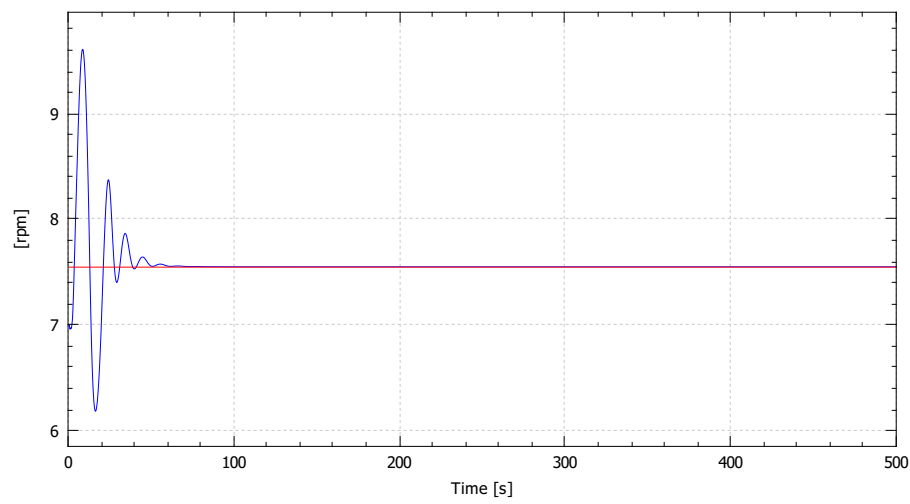
Load case: 13 ms wind speed

Rotor

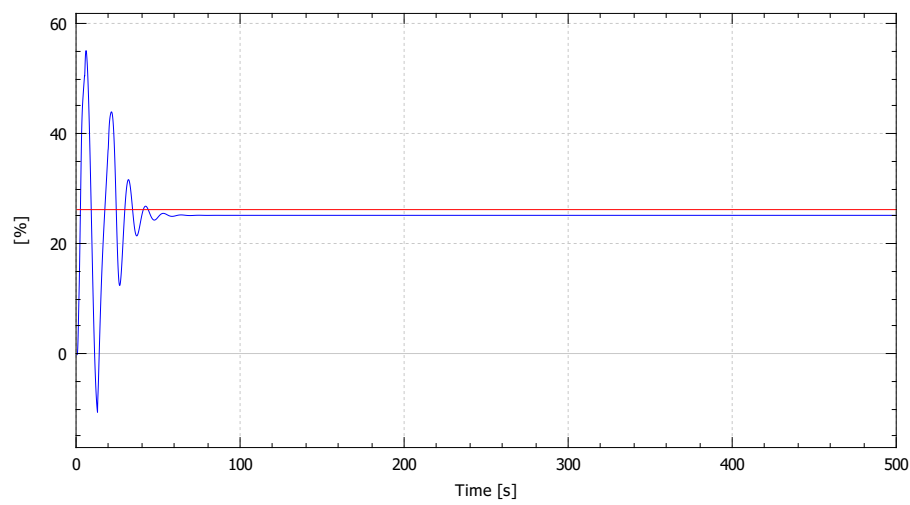
Torque (aero)



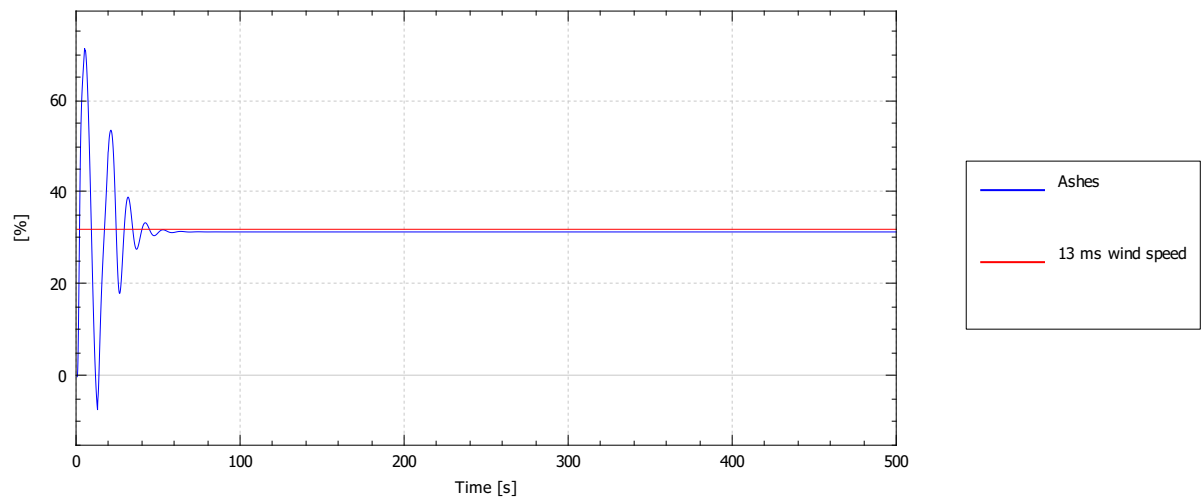
RPM



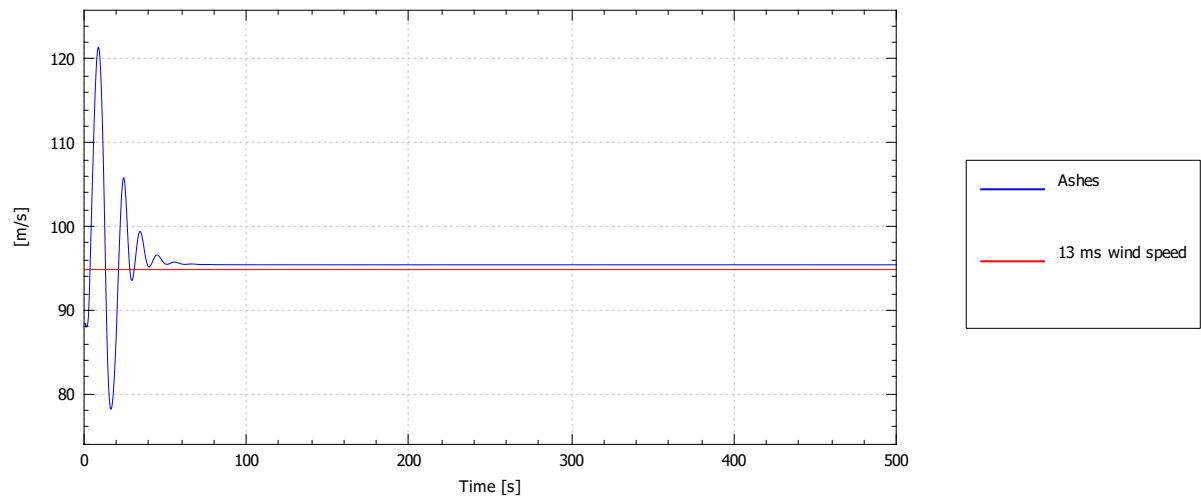
Power coef. (CP)



Thrust coef. (CT)

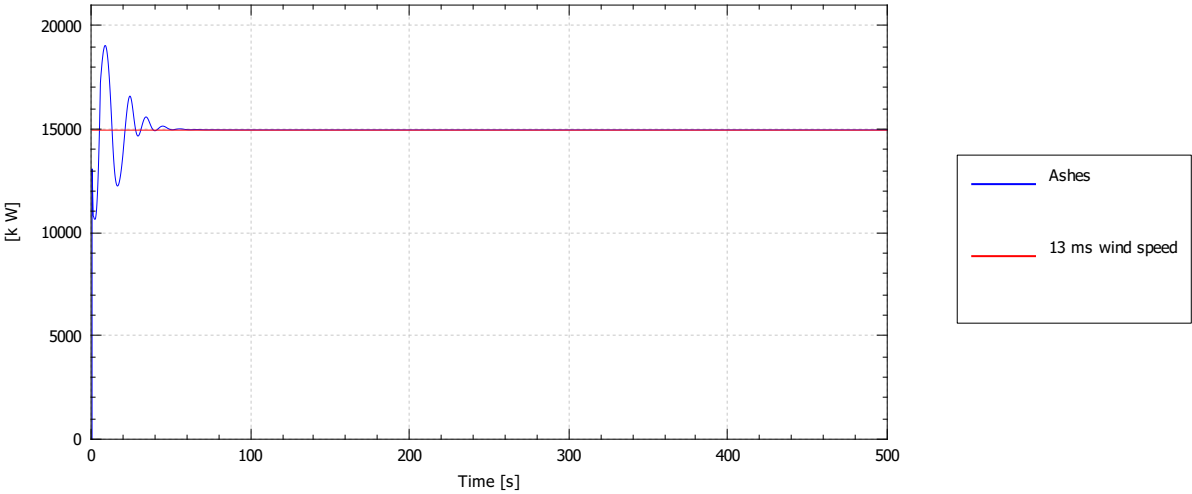


Tip speed



Generator

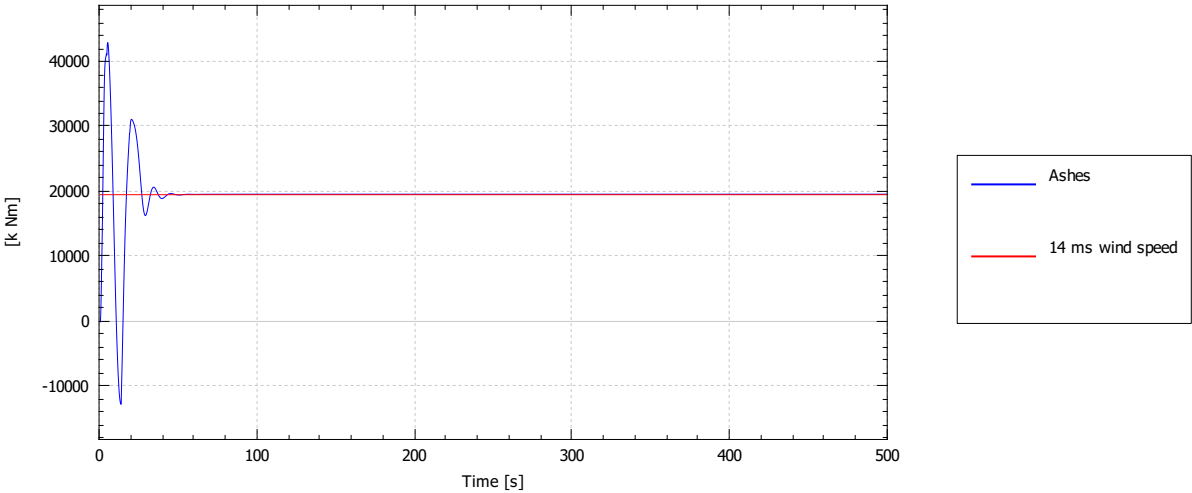
Power (electrical)

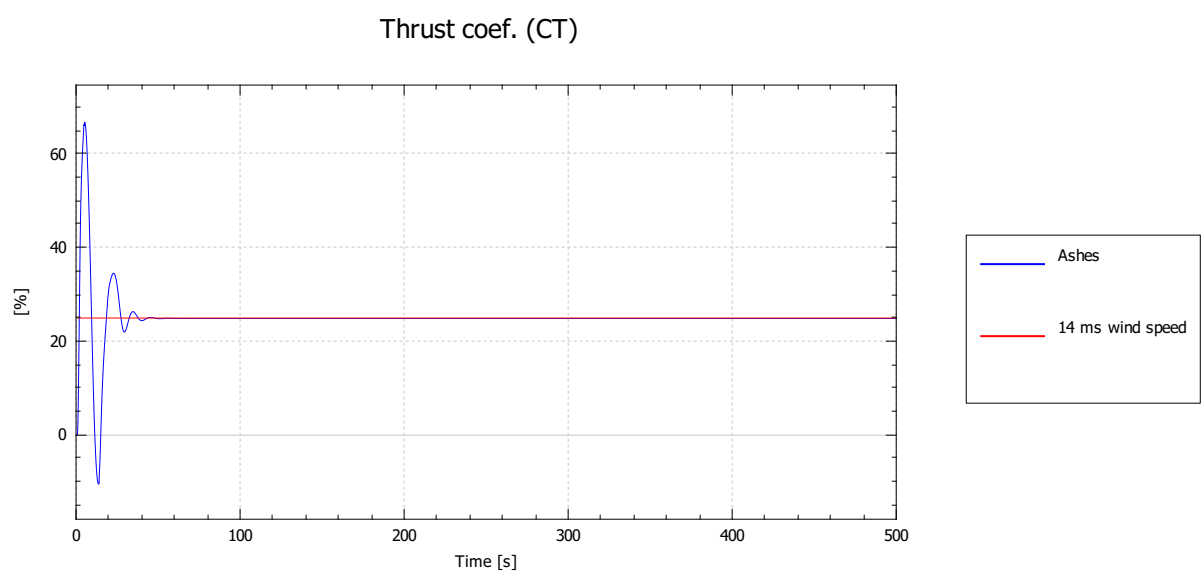
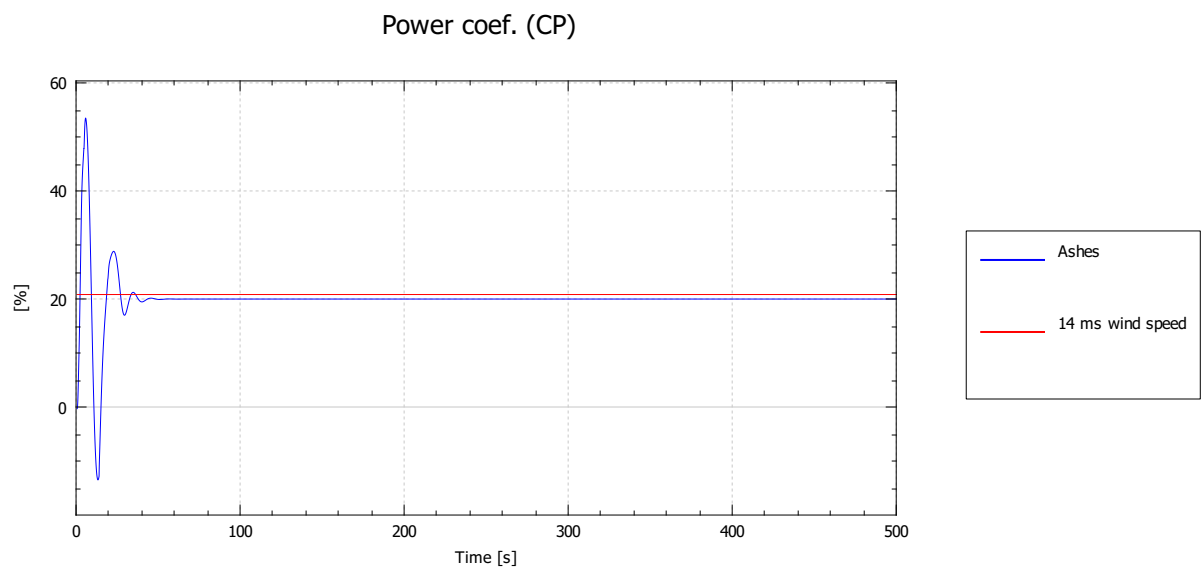
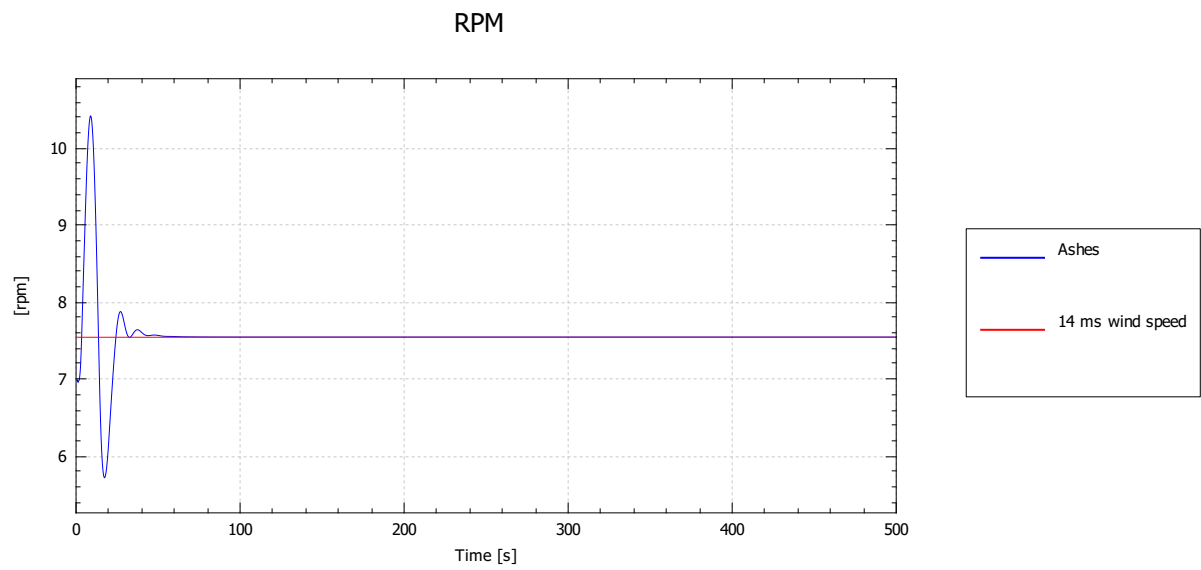


Load case: 14 ms wind speed

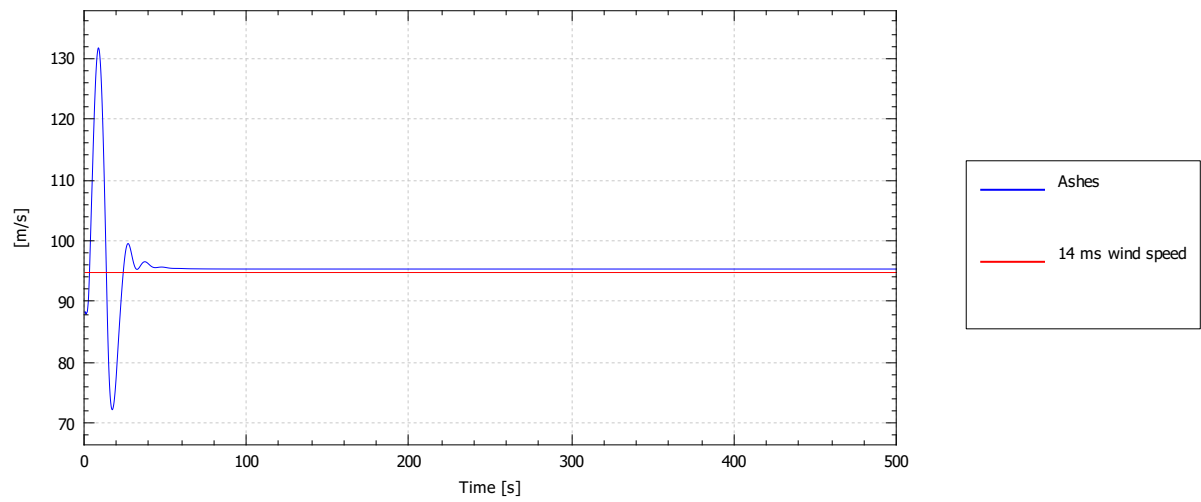
Rotor

Torque (aero)



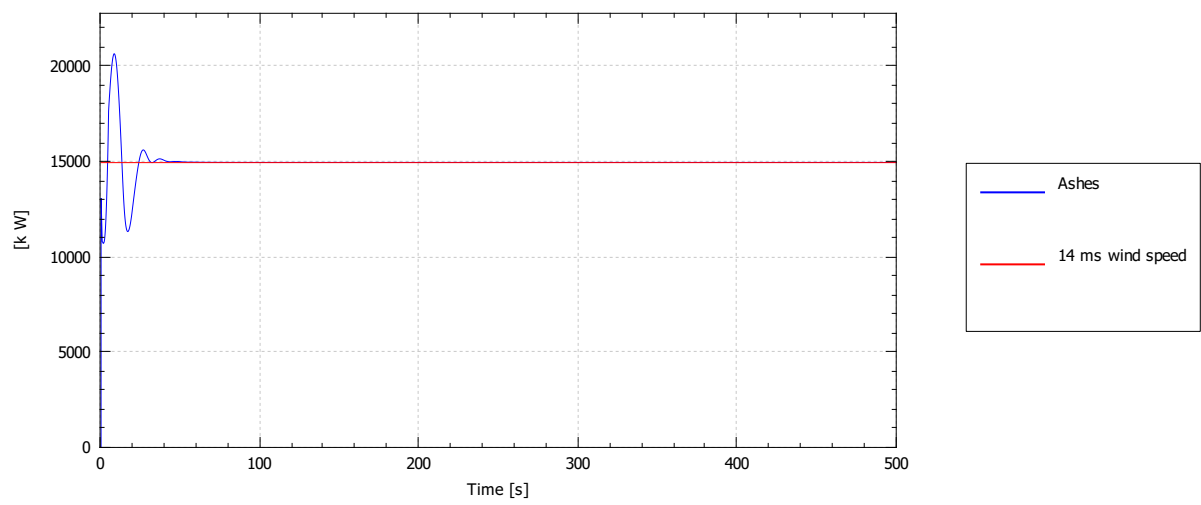


Tip speed



Generator

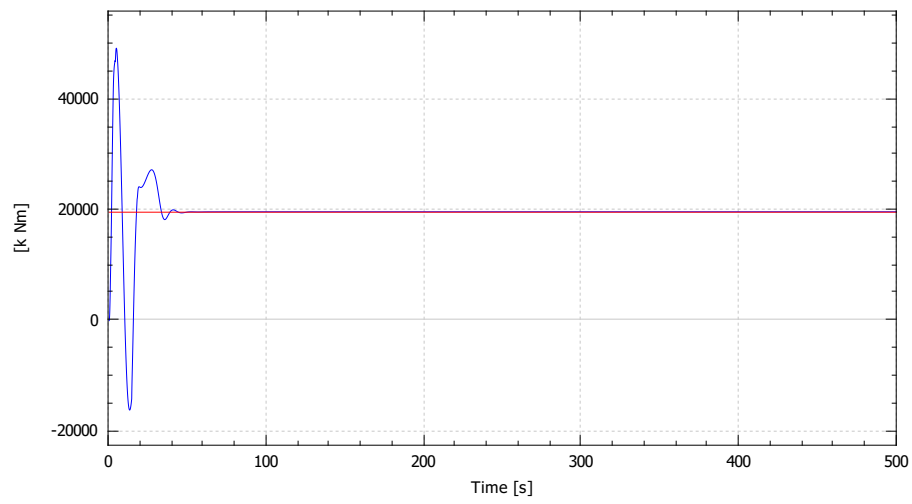
Power (electrical)



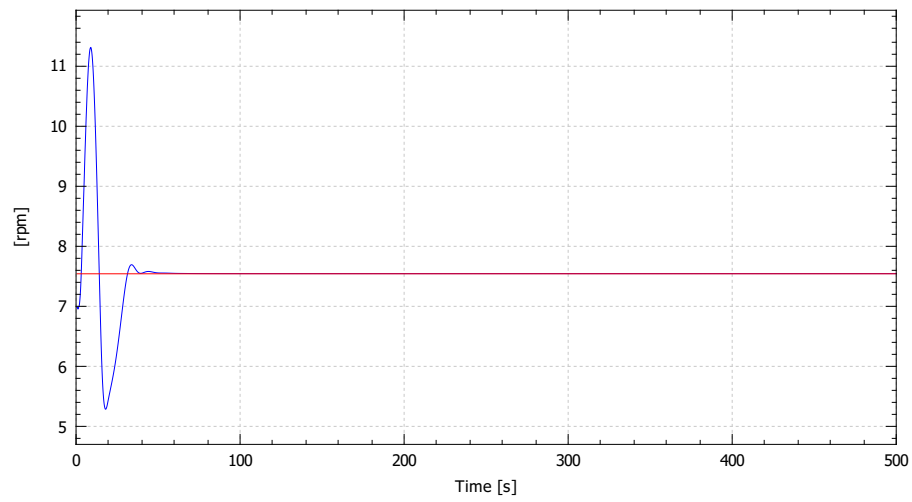
Load case: 15 ms wind speed

Rotor

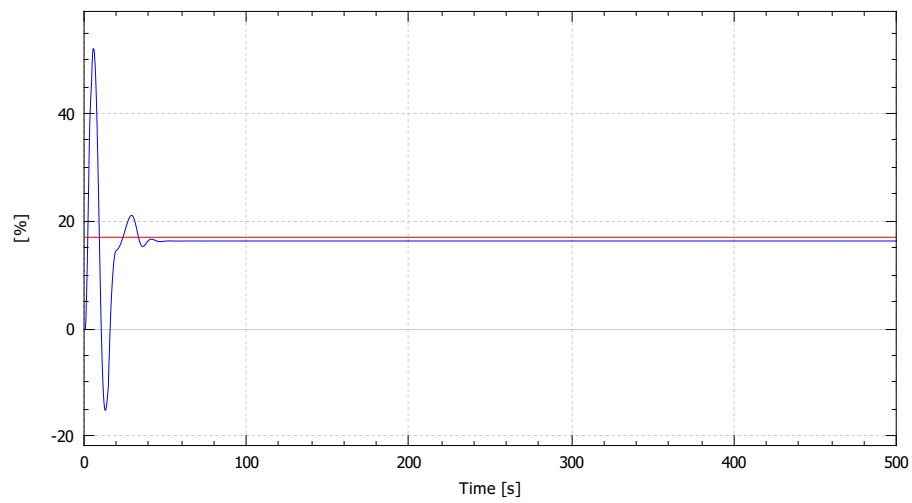
Torque (aero)



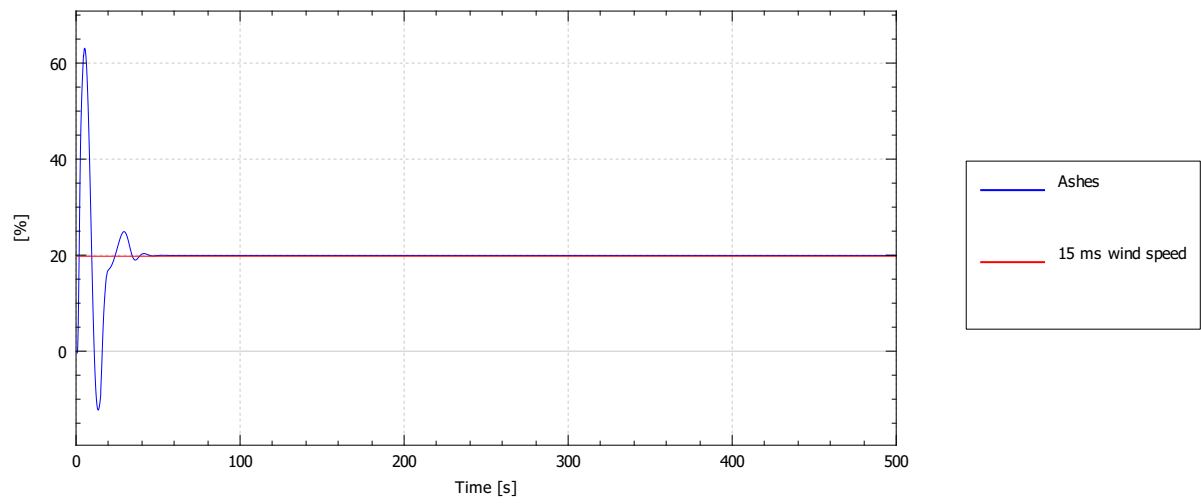
RPM



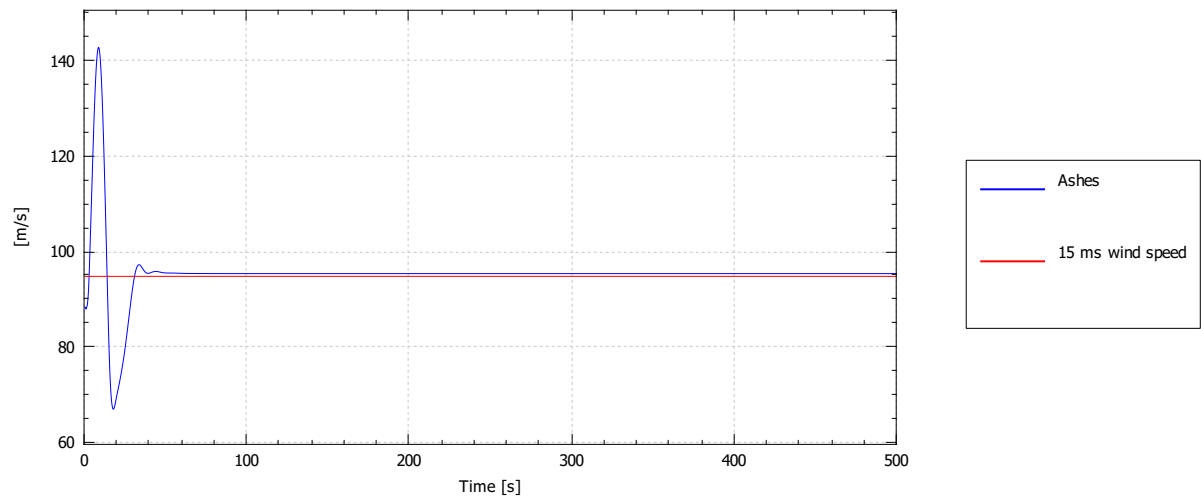
Power coef. (CP)



Thrust coef. (CT)

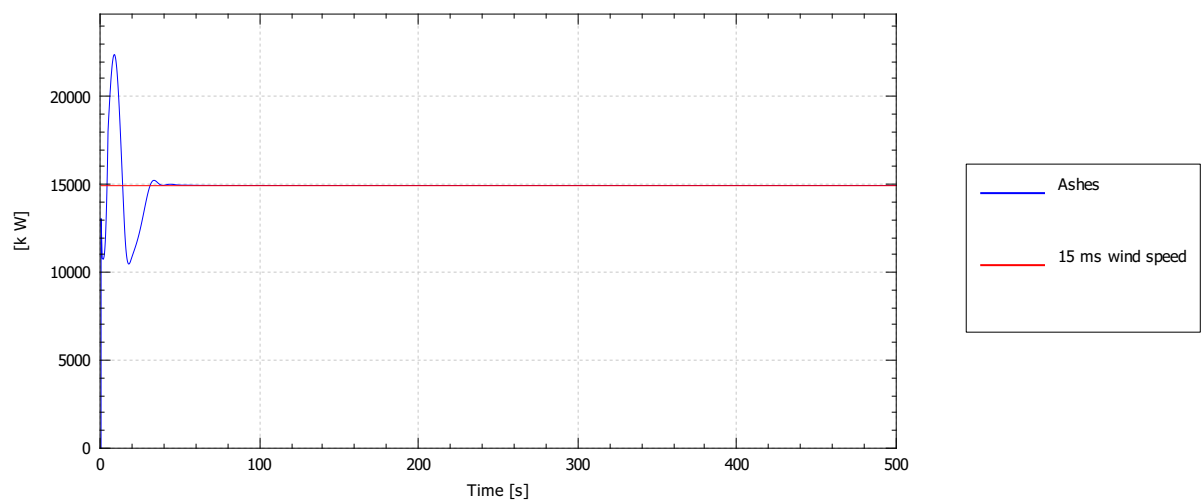


Tip speed



Generator

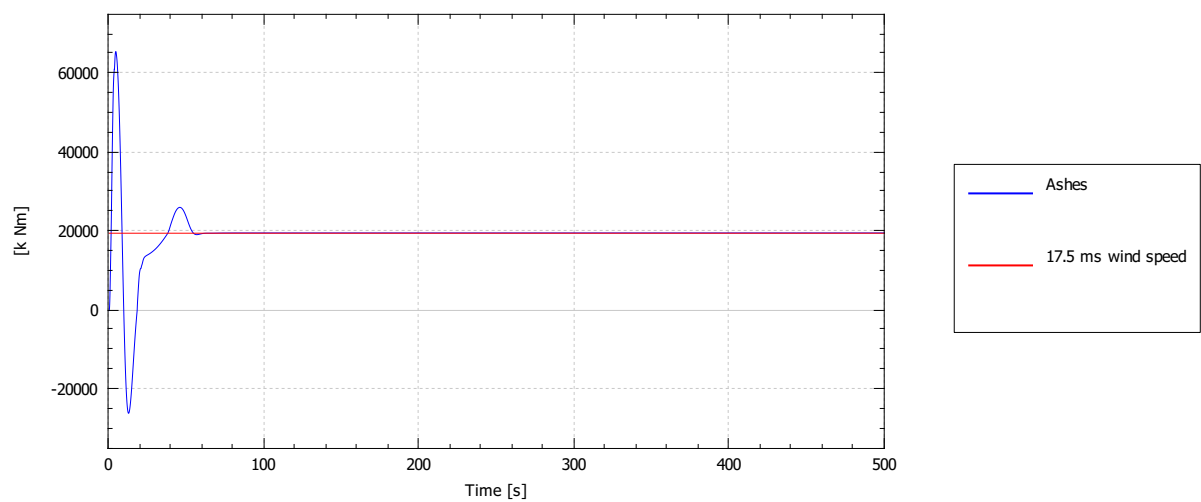
Power (electrical)



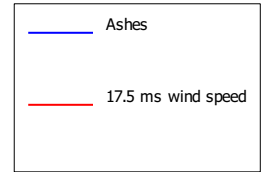
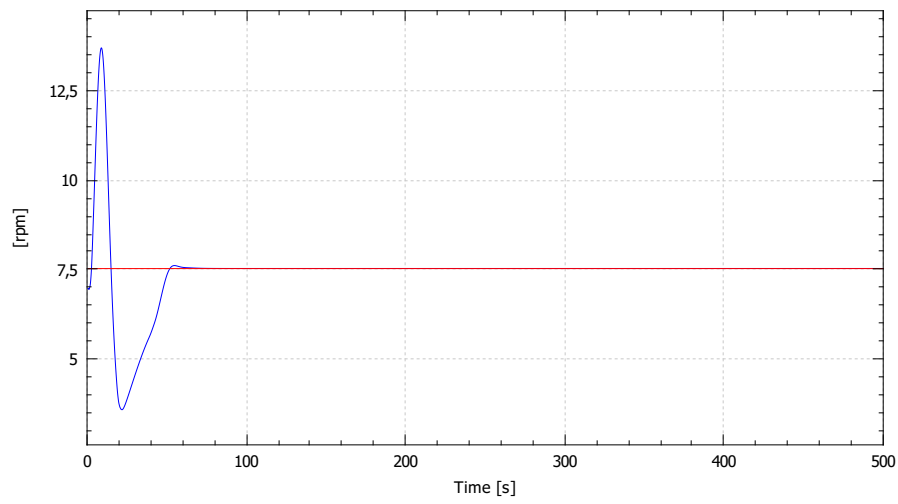
Load case: 17.5 ms wind speed

Rotor

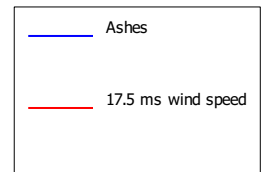
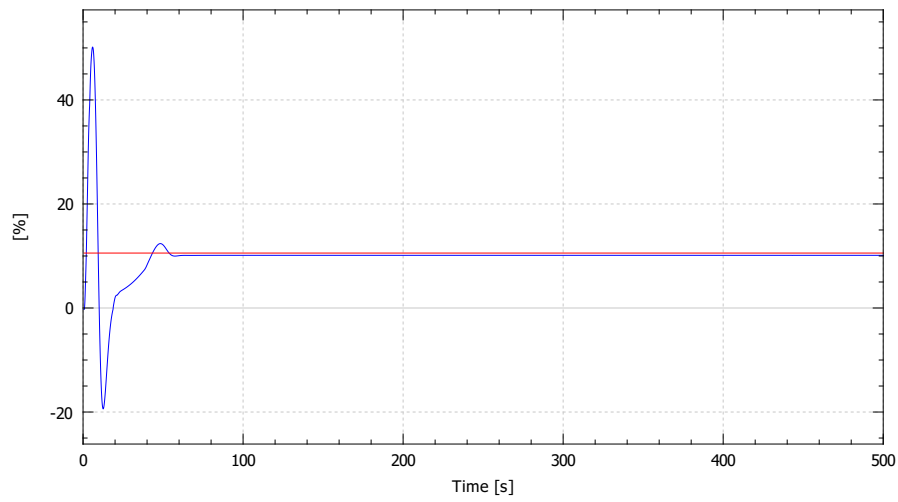
Torque (aero)



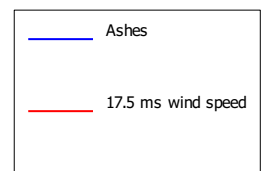
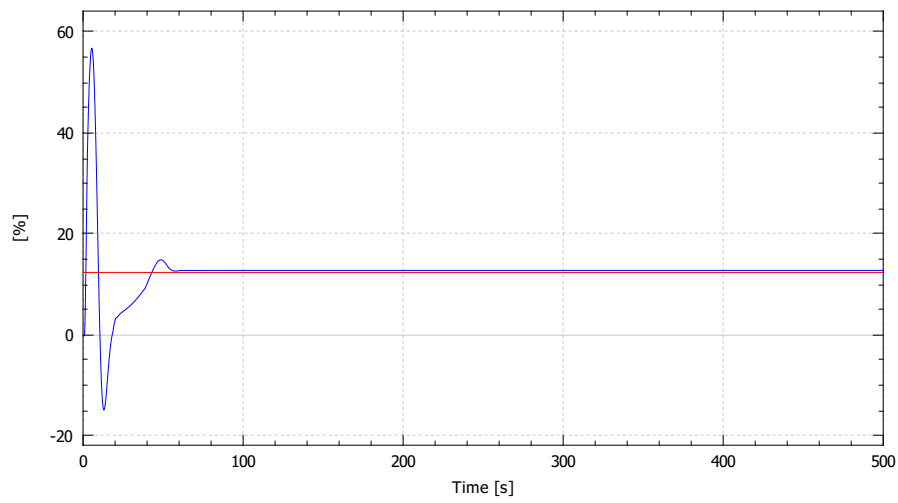
RPM



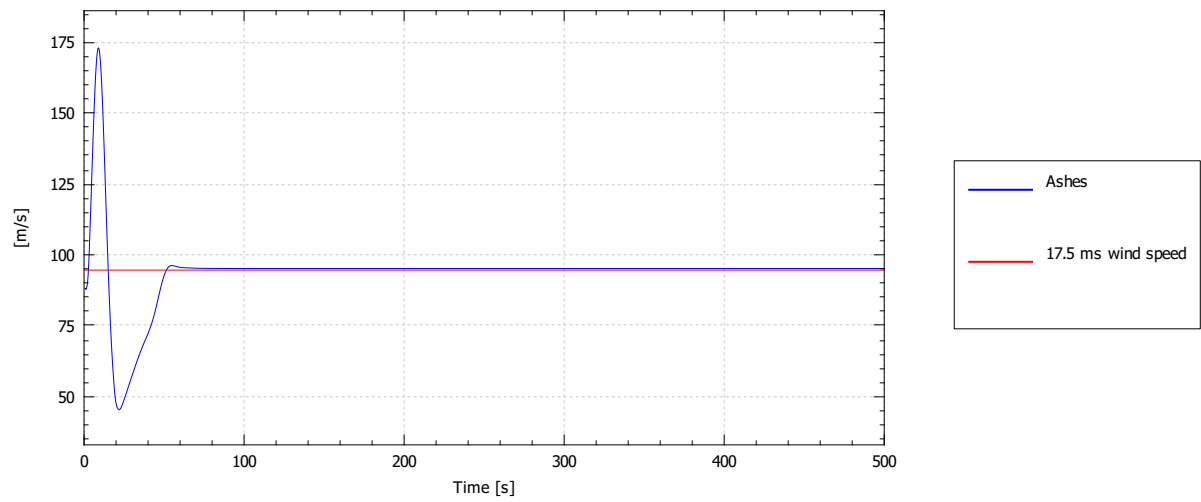
Power coef. (CP)



Thrust coef. (CT)

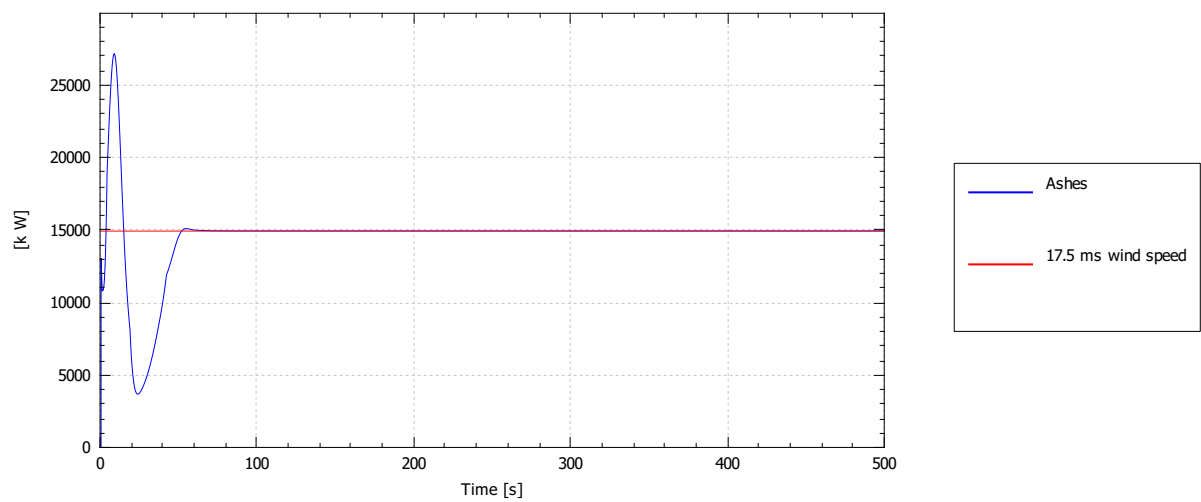


Tip speed



Generator

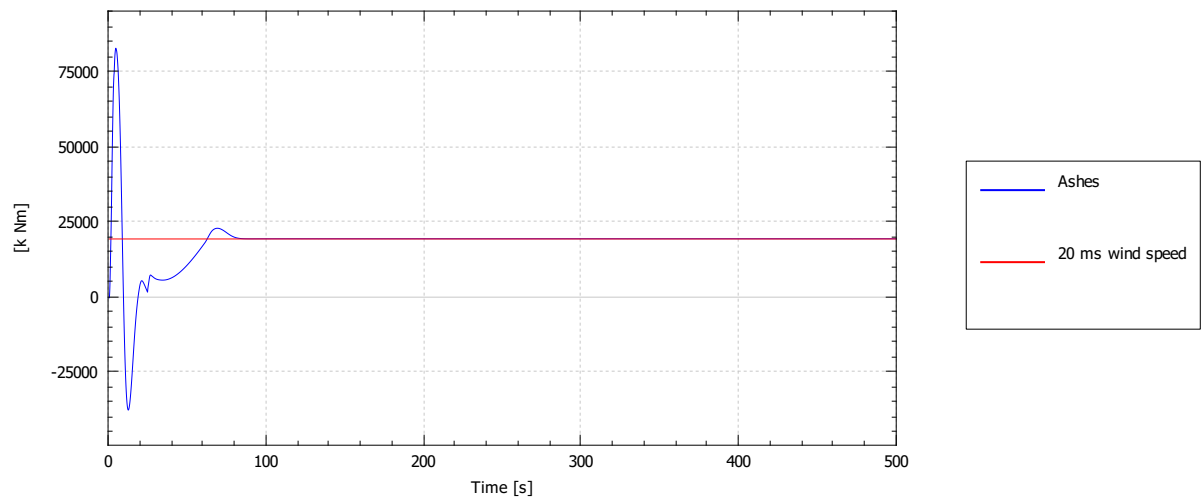
Power (electrical)



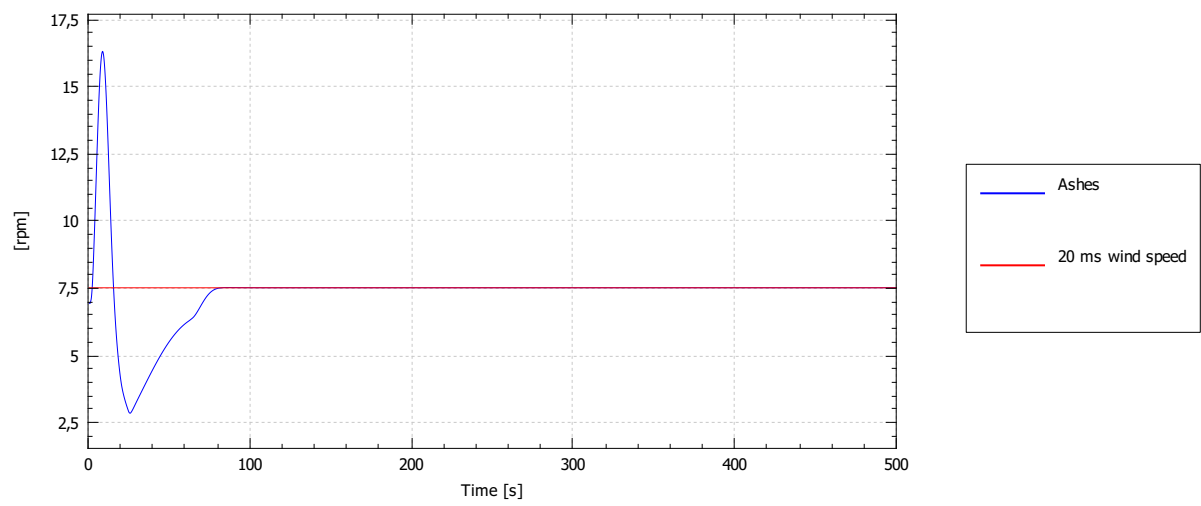
Load case: 20 ms wind speed

Rotor

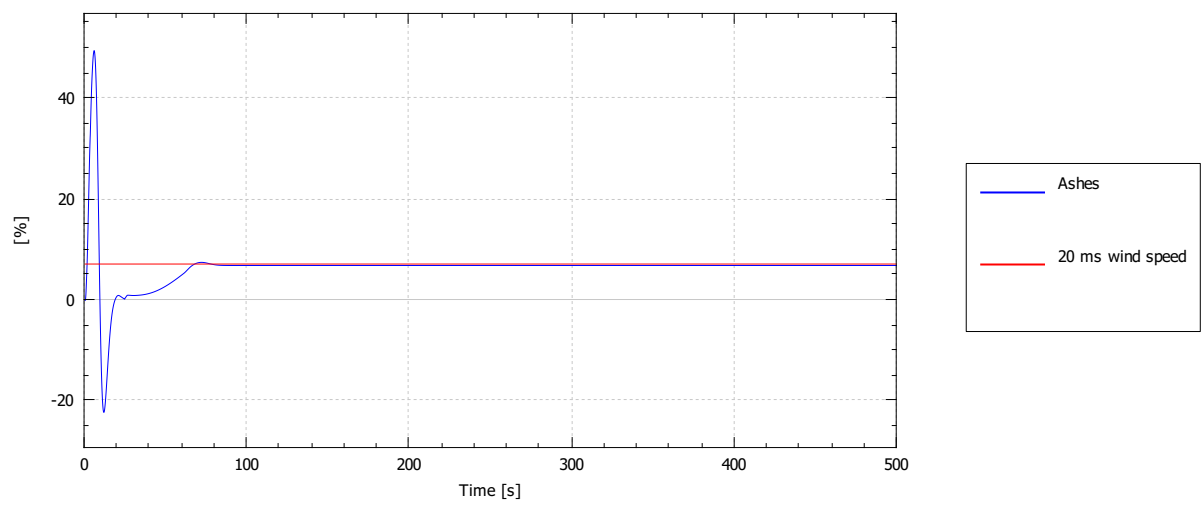
Torque (aero)



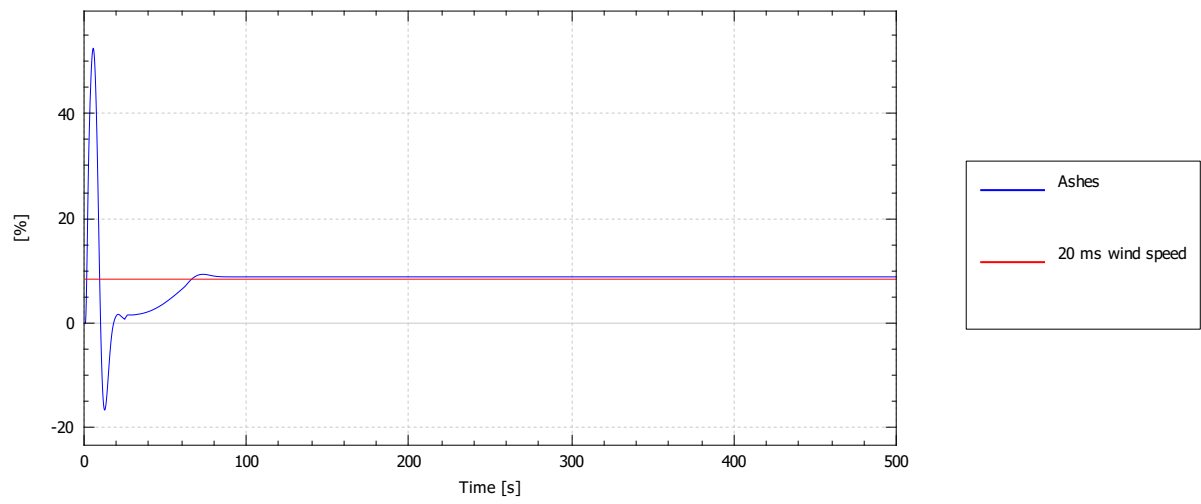
RPM



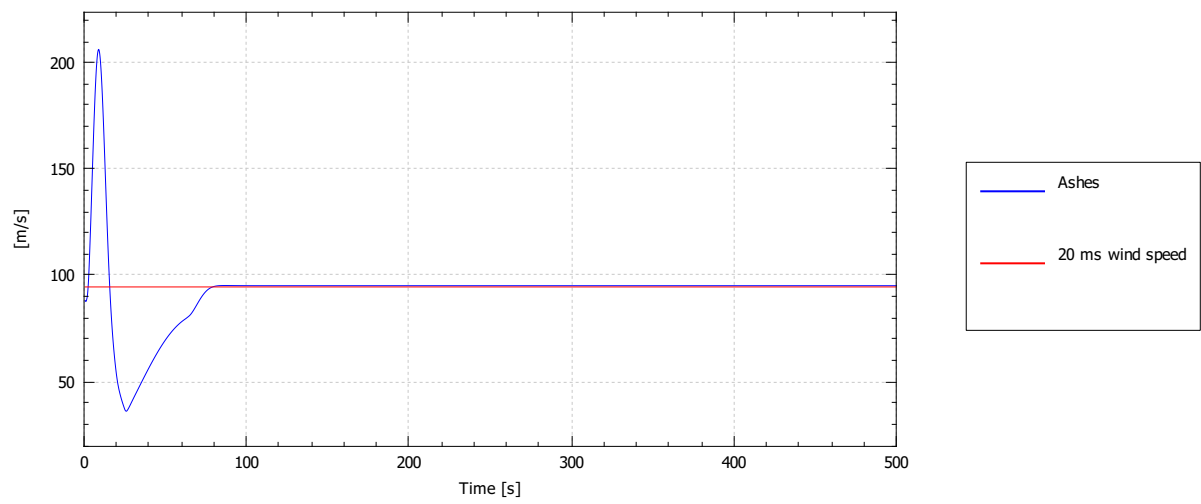
Power coef. (CP)



Thrust coef. (CT)

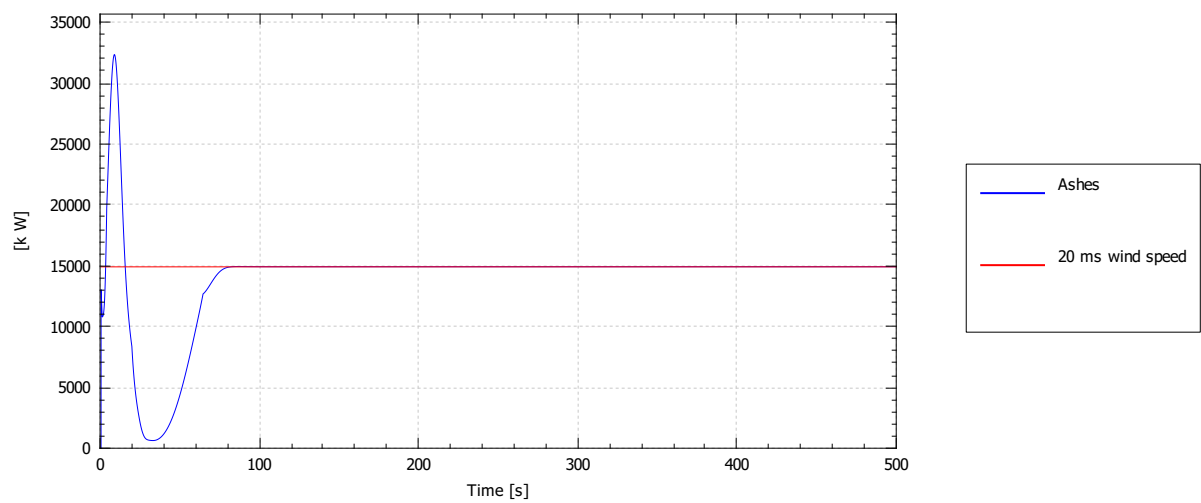


Tip speed



Generator

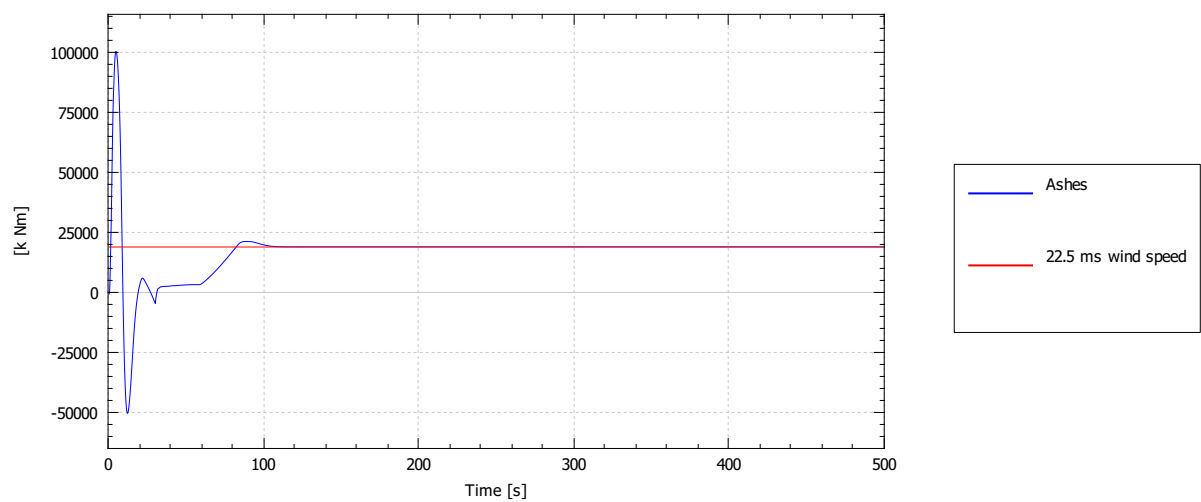
Power (electrical)



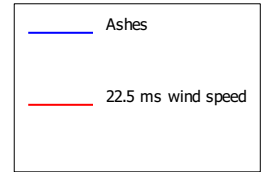
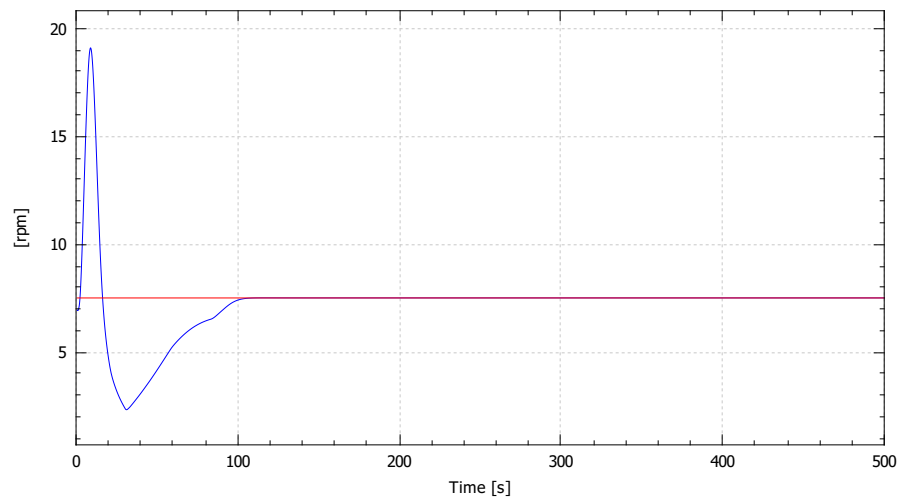
Load case: 22.5 ms wind speed

Rotor

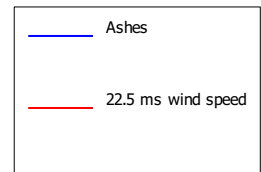
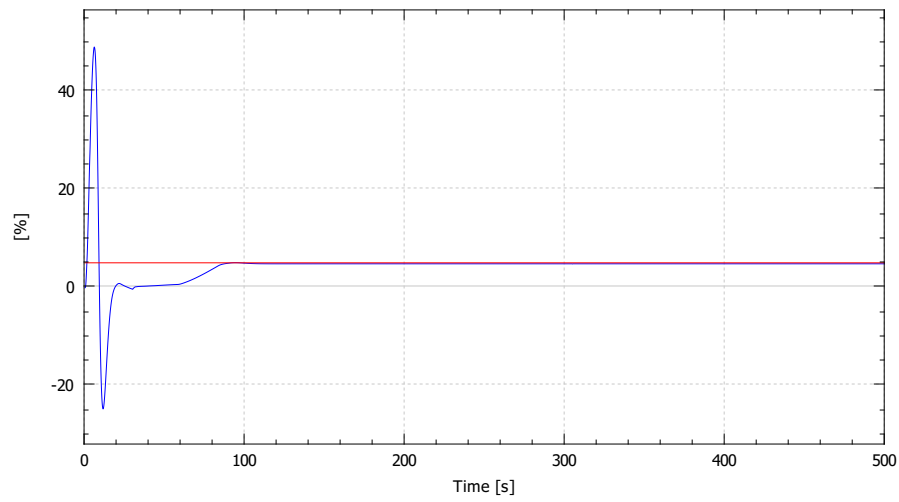
Torque (aero)



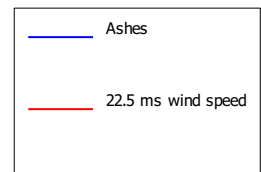
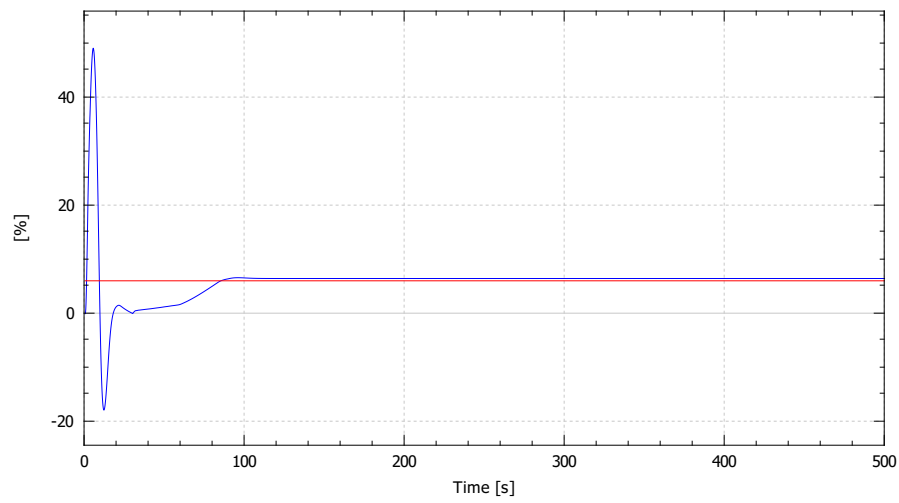
RPM



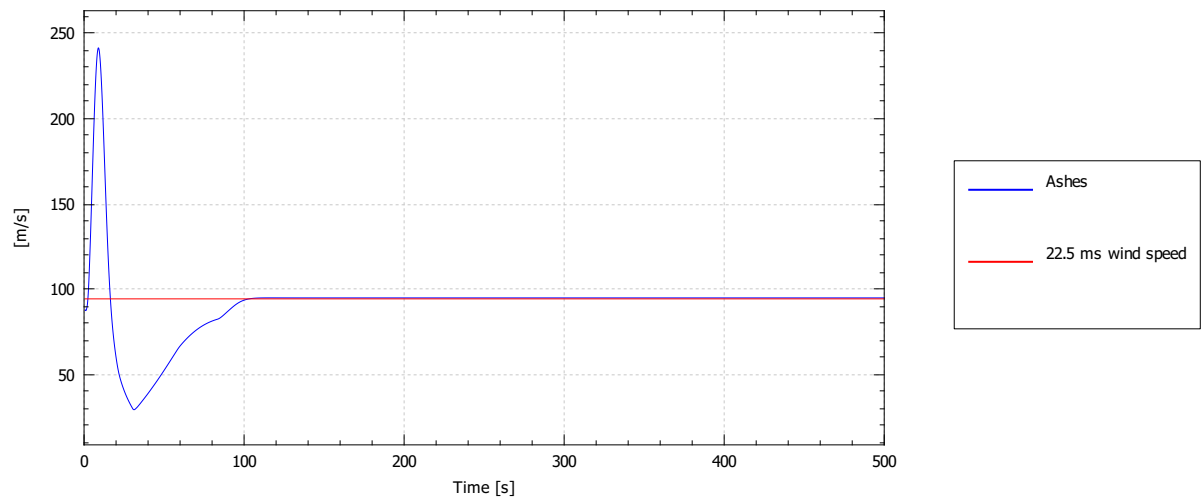
Power coef. (CP)



Thrust coef. (CT)

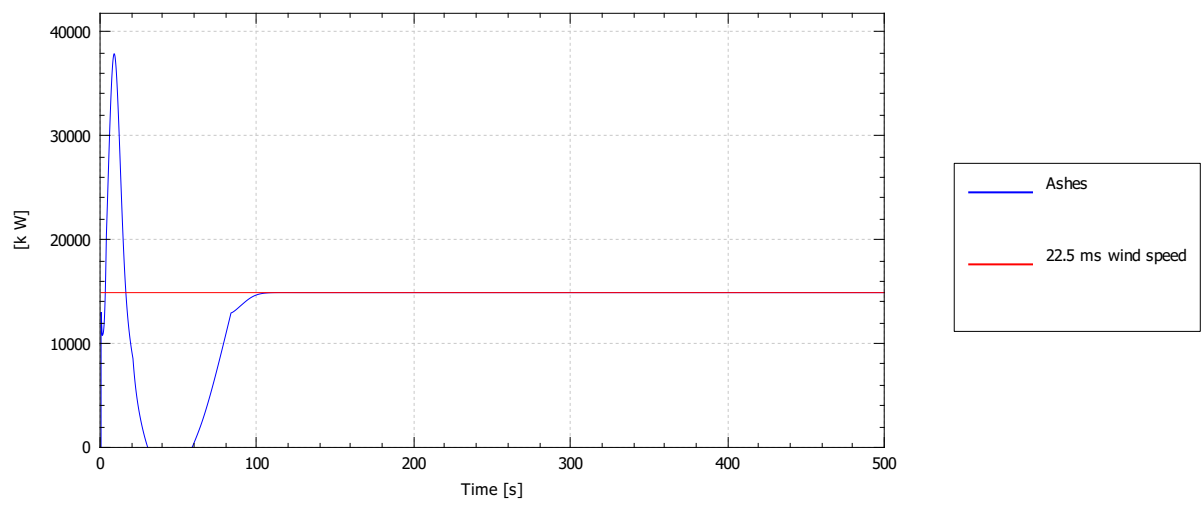


Tip speed



Generator

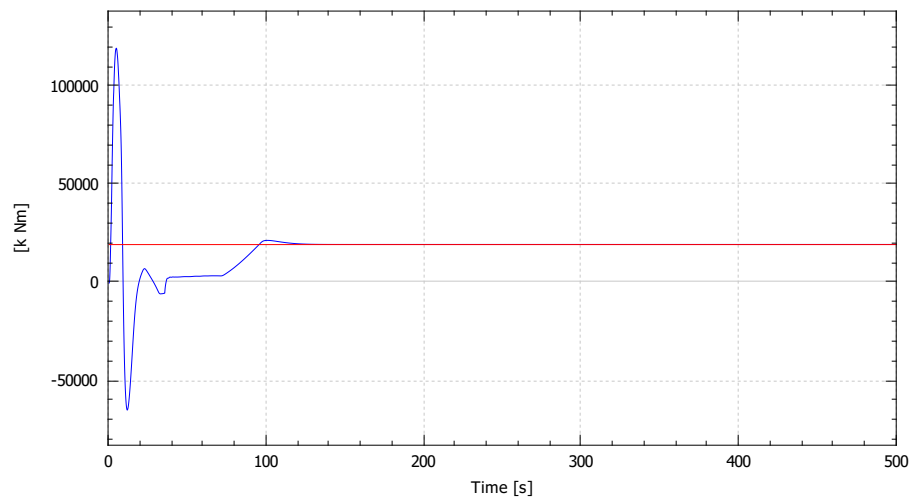
Power (electrical)



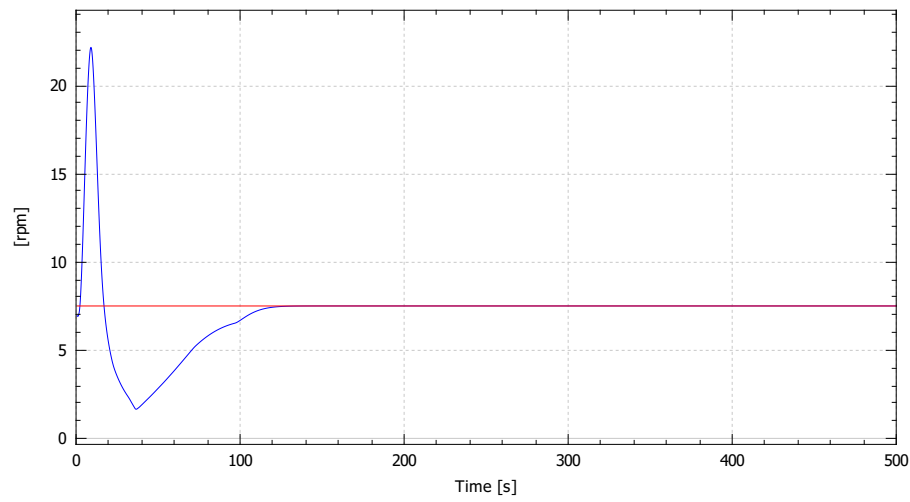
Load case: 25 ms wind speed

Rotor

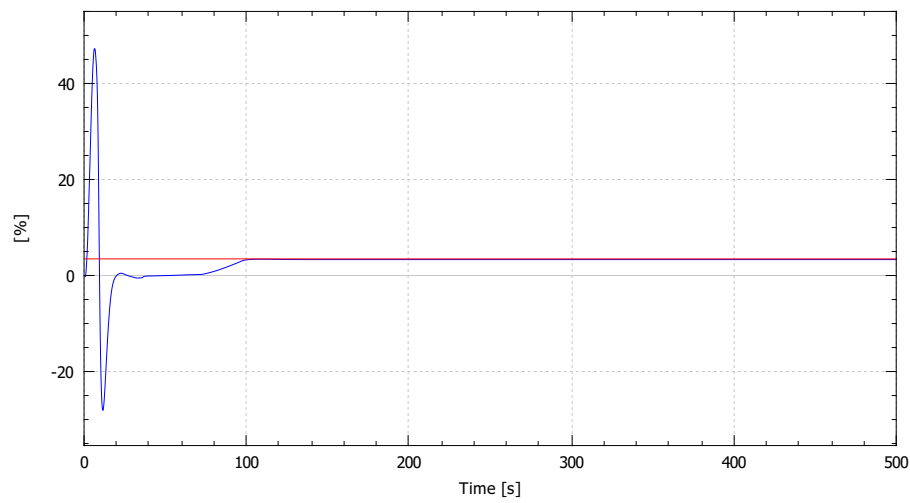
Torque (aero)



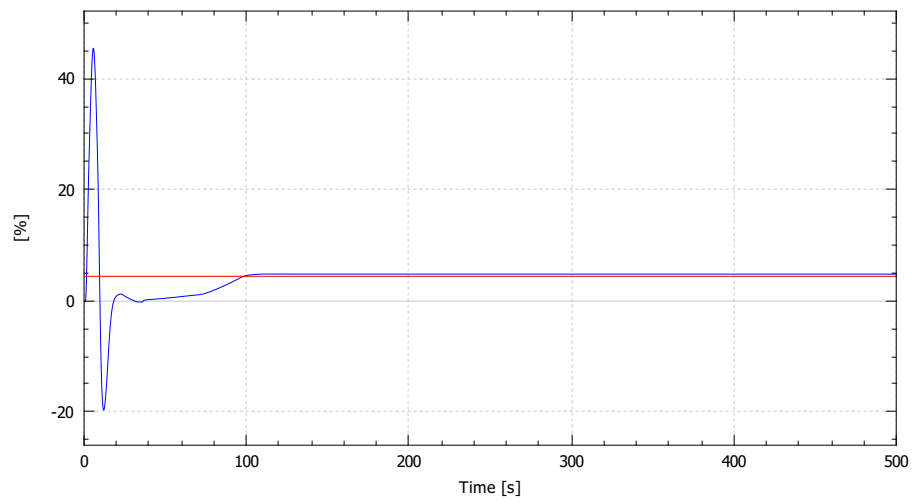
RPM



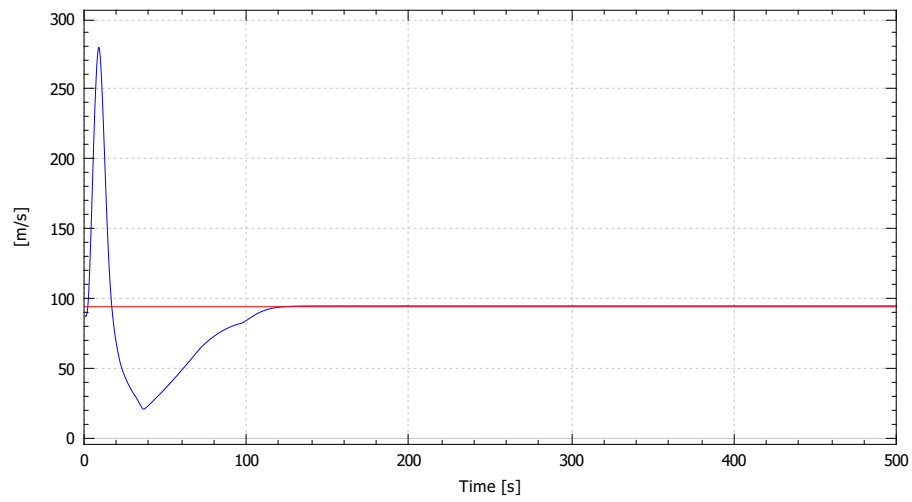
Power coef. (CP)



Thrust coef. (CT)



Tip speed



Generator

Power (electrical)

