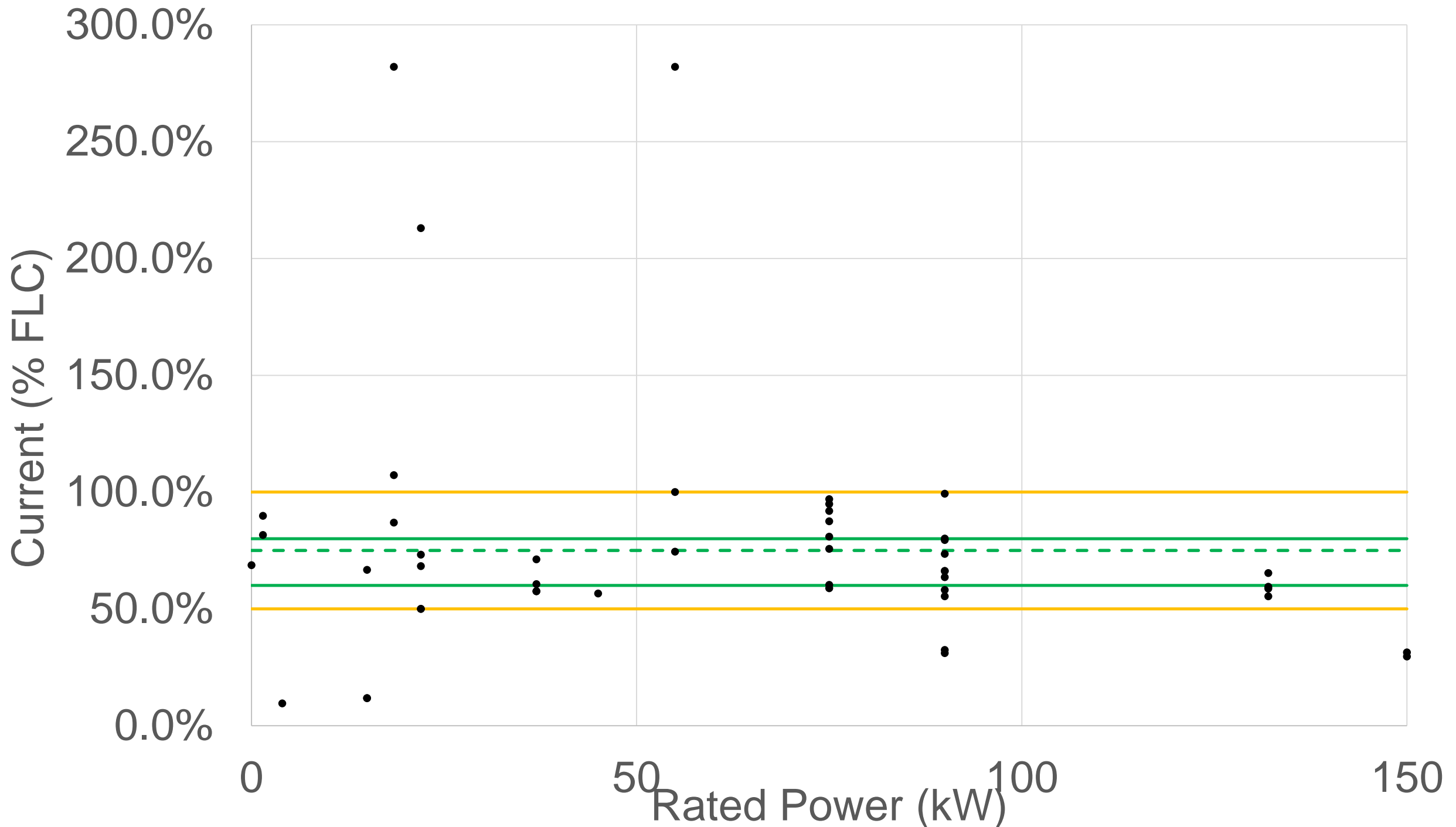


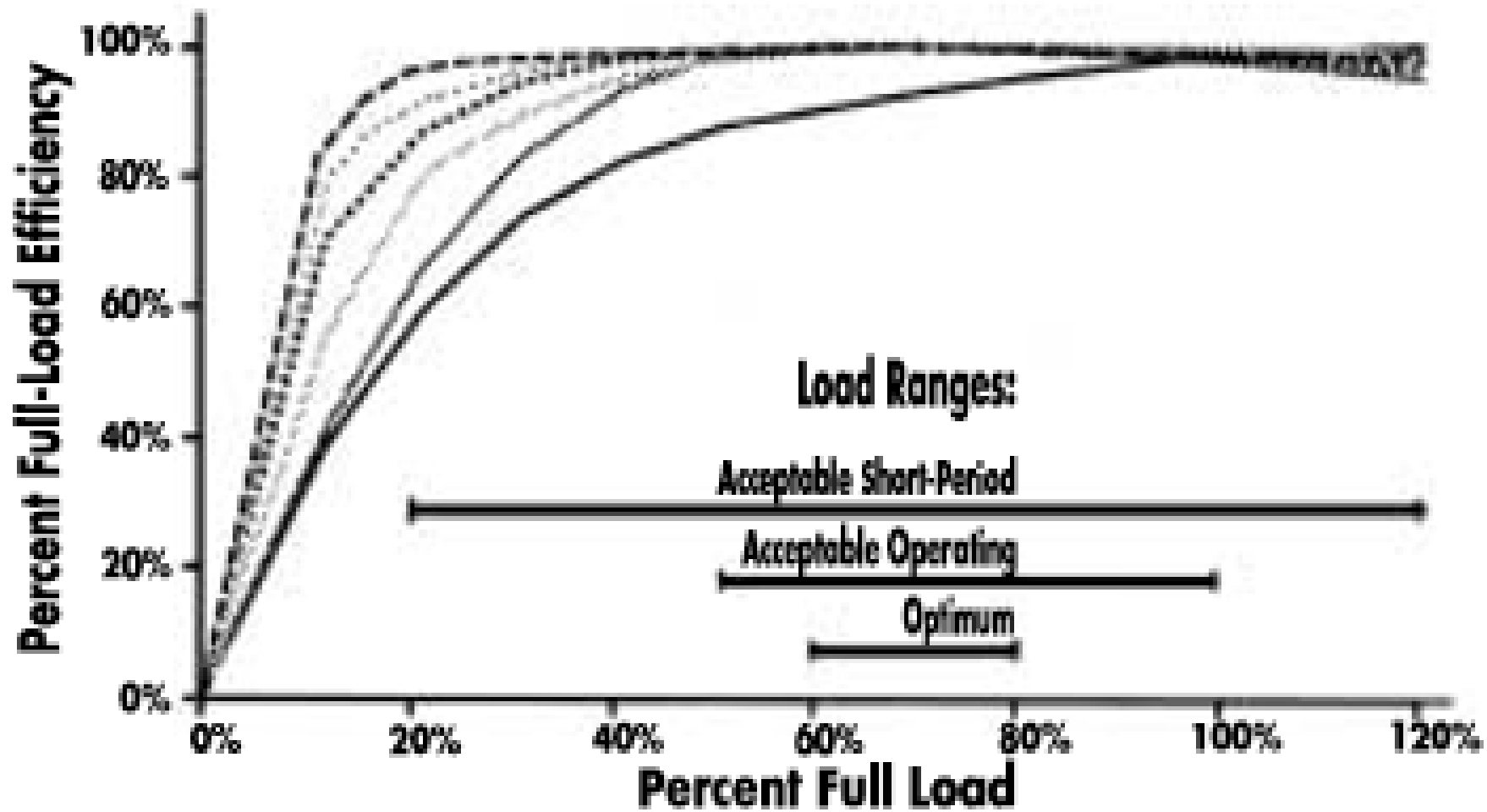
Sellafield Ltd Site Ventilation Motor Optimisation

Mitchell Smith

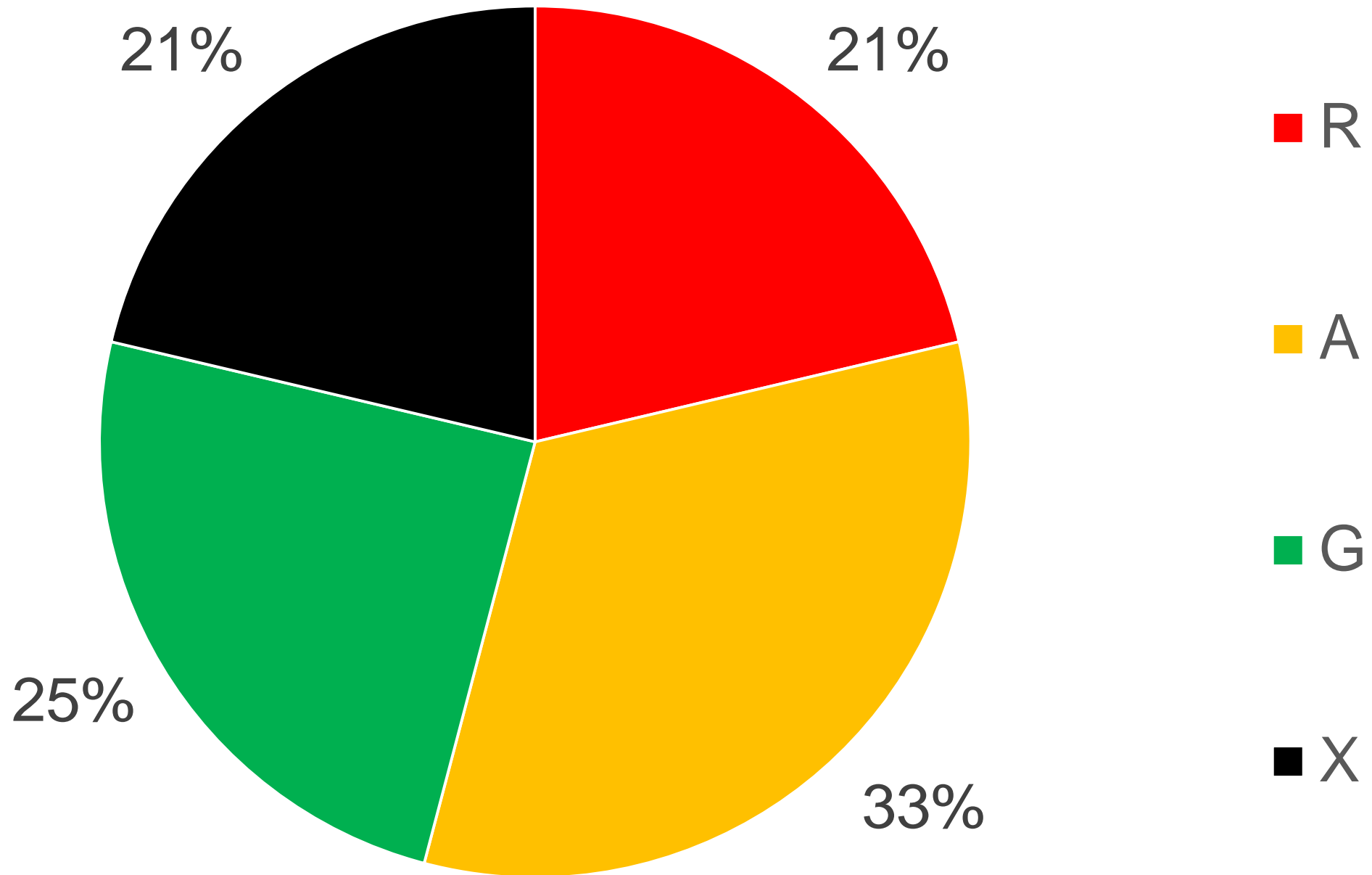


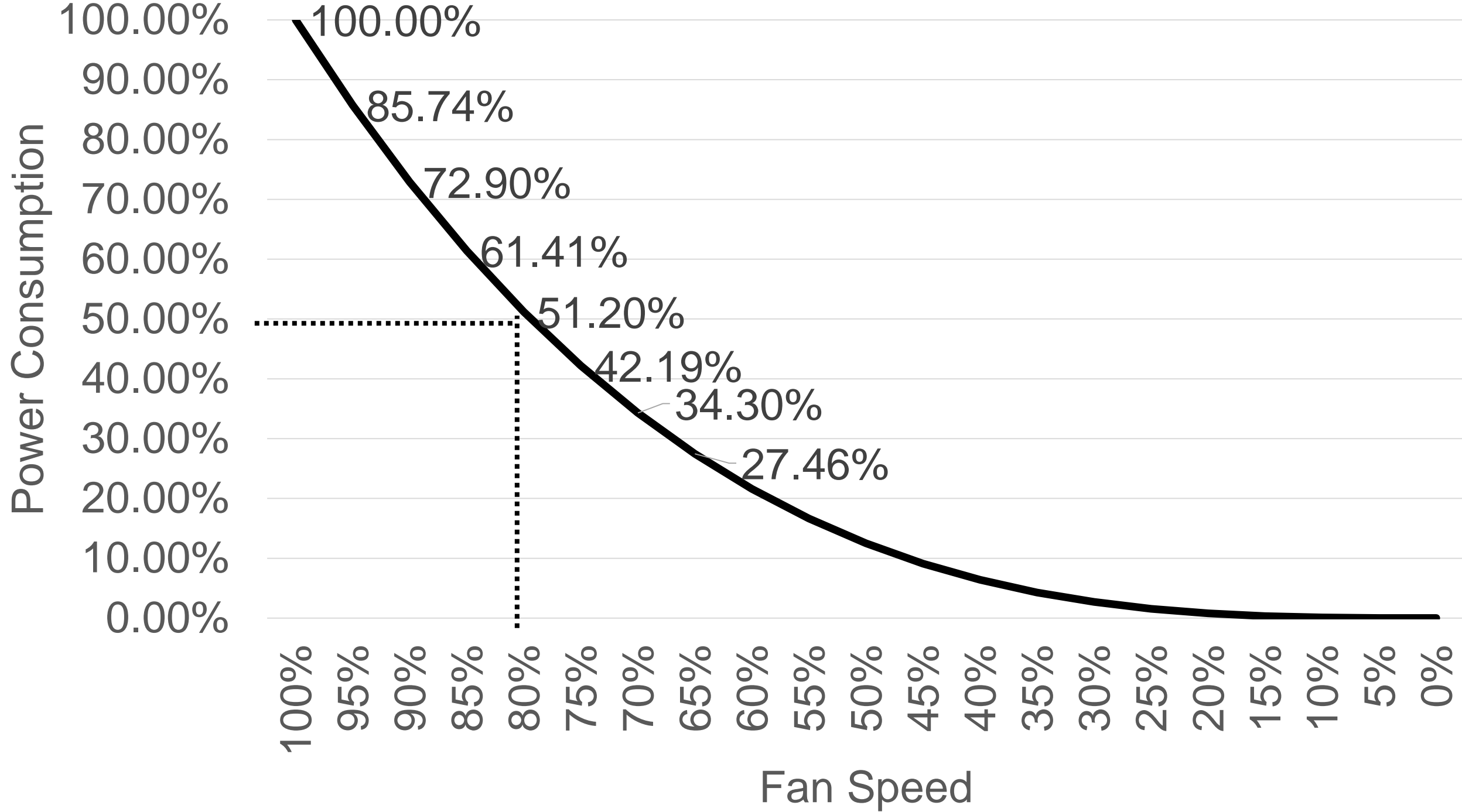




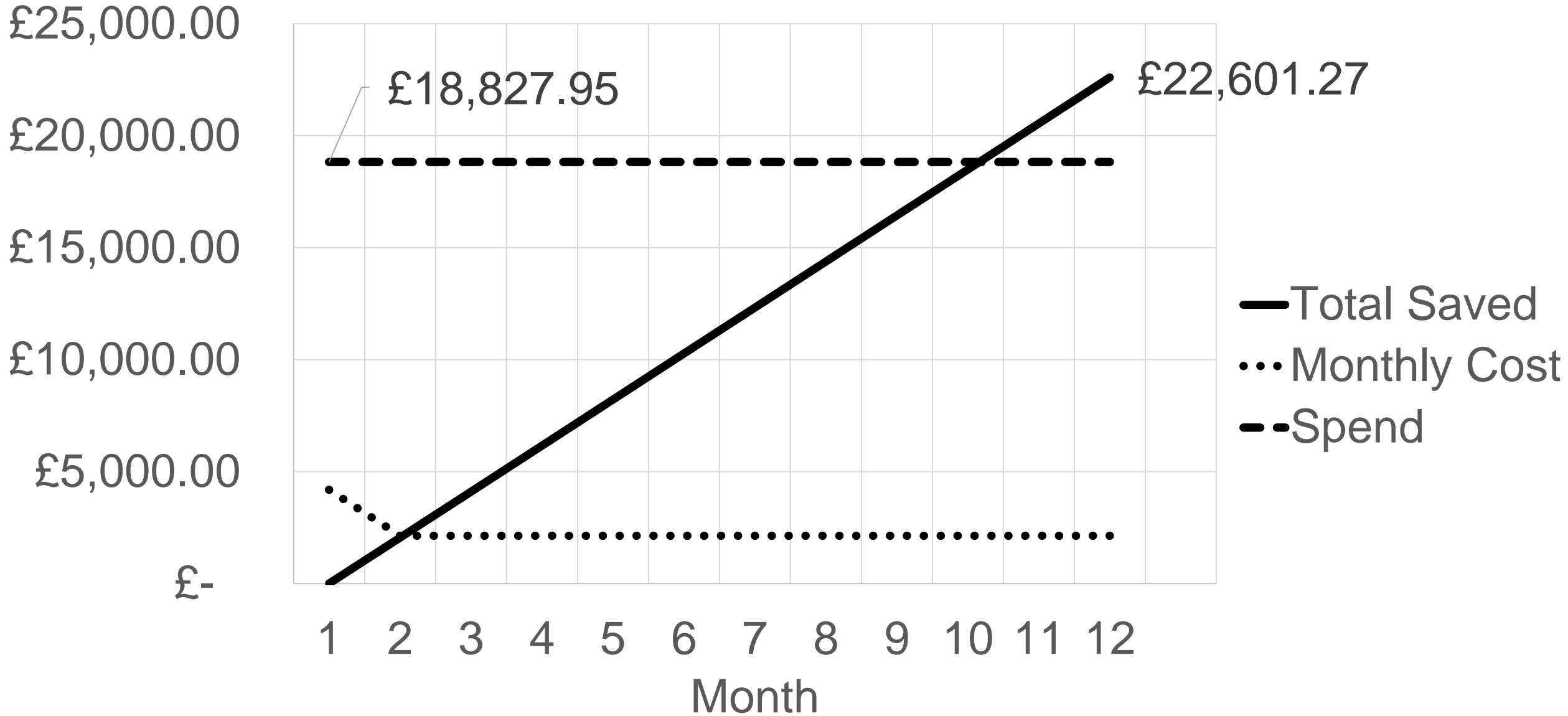


<u>0-1 hp</u>	<u>10 hp</u>	<u>30-60 hp</u>
<u>1.5-5 hp</u>	<u>15-25 hp</u>	<u>75-100 hp</u>

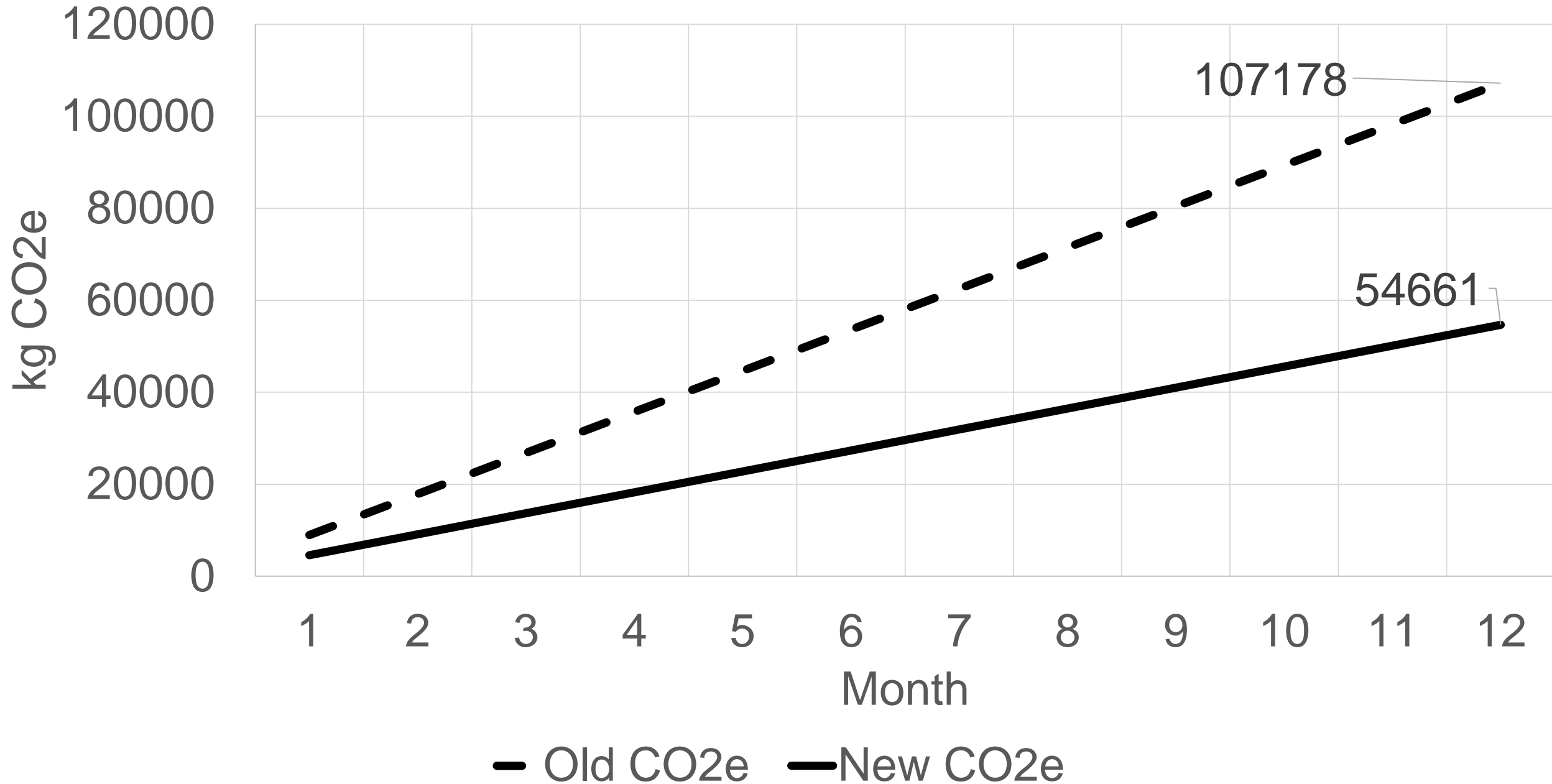




Vents Average VSD Replacement Cost-Benefit (12.0p / kWh)



Vents Average Carbon Footprint Benefit



Condition Monitoring

			App. Power kVA	Real Power kW	Reac. Power kVARS
	Power factor	Impedance			
Phase 1	0.767	12.737	10.363	7.953	6.644
Phase 2	0.755	12.405	10.639	8.033	6.976
Phase 3	0.749	12.923	10.229	7.665	6.773
Avg/Total	0.757	12.688	31.231	23.651	20.393
% dev	1.3	2.2			

Demand Pwr = 31.70 HP

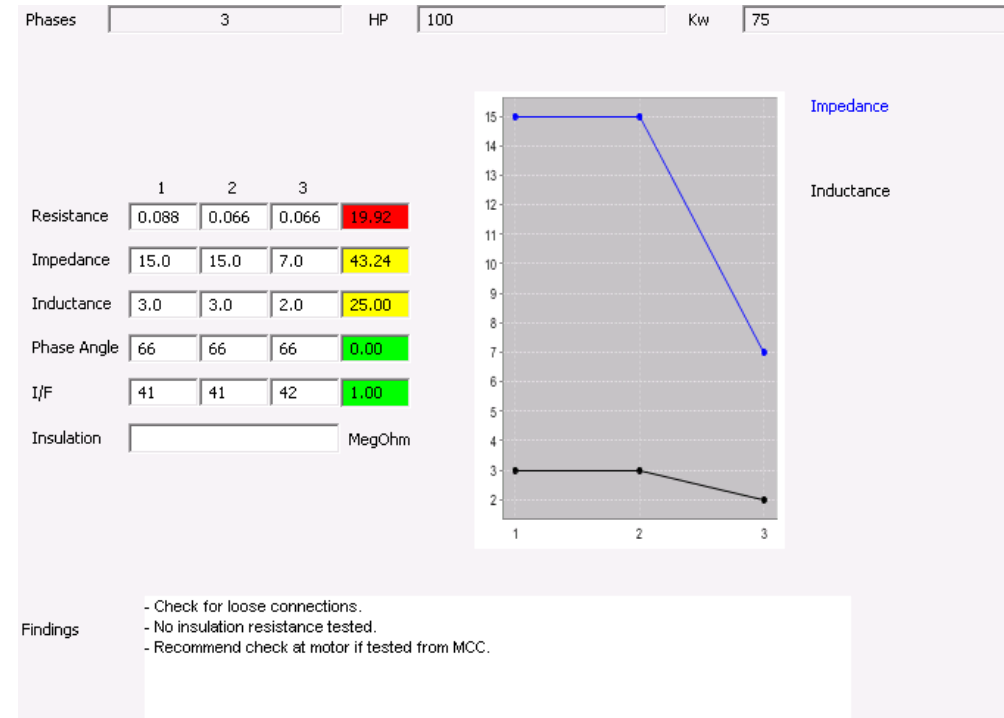
Load:58.6 %

Motor Eff.:92.6 %

Loss due to THD:

Output Pow.:21.17 KW

Output Trq.:83.72 Ft.Lb



Questions?

