



pivot
power

DEGRADATION & VALUE OF FLEXIBILITY

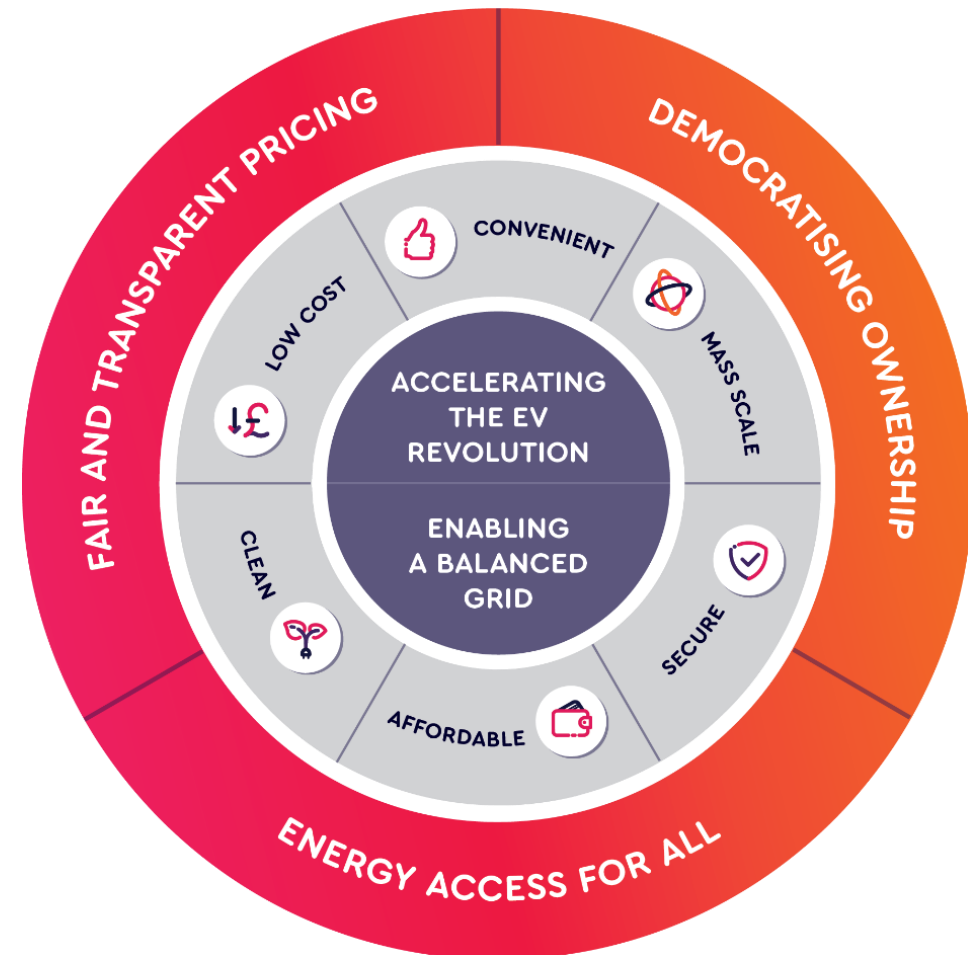
POWER SWARM – IMPERIAL COLLEGE

November 2018

THE POWER DRIVING CHANGE

THE PIVOT POWER PROPOSITION

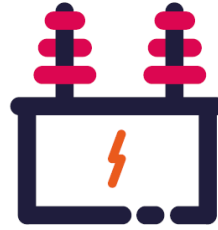
Connecting batteries directly to the Transmission System at National Grid substations, and running cable to nearby locations for mass-scale EV charging



PIVOT POWER BY NUMBERS

45

Sites being developed



60

MW/site in total

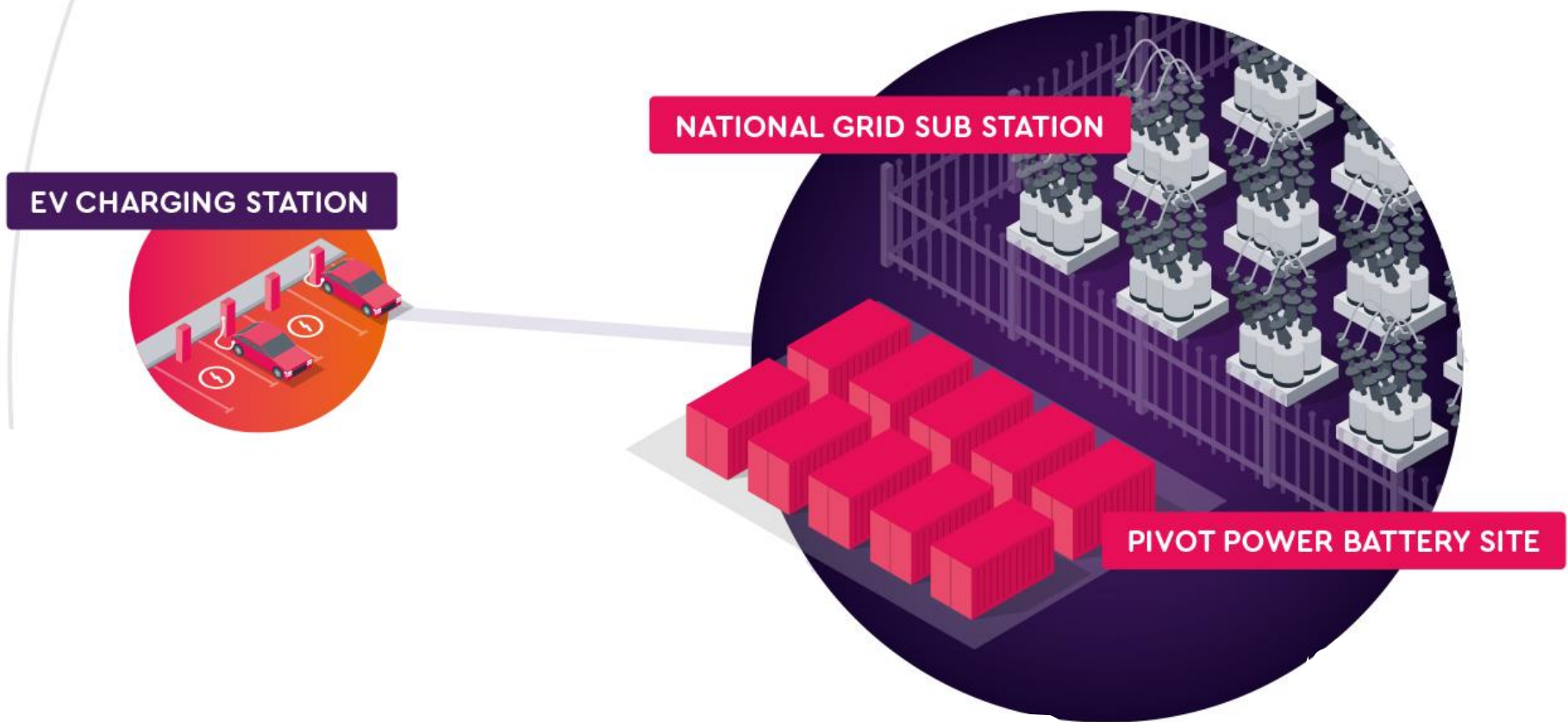


10

MW/site minimum for EV charging

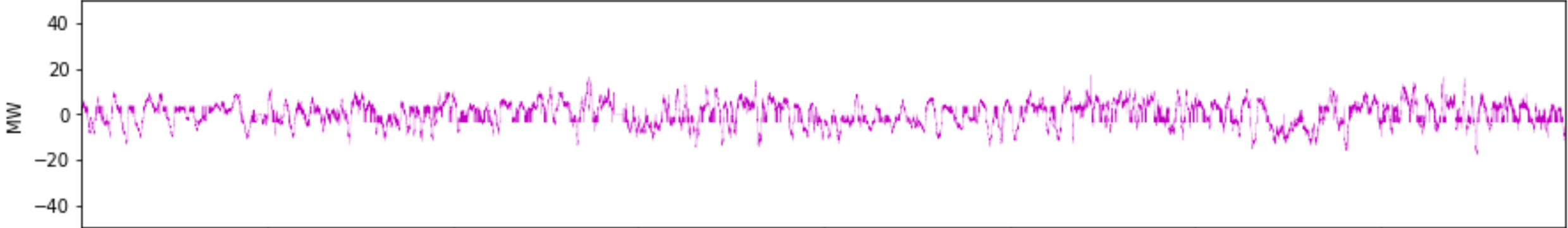


FLEXIBILITY IS HOW BATTERIES CREATE VALUE

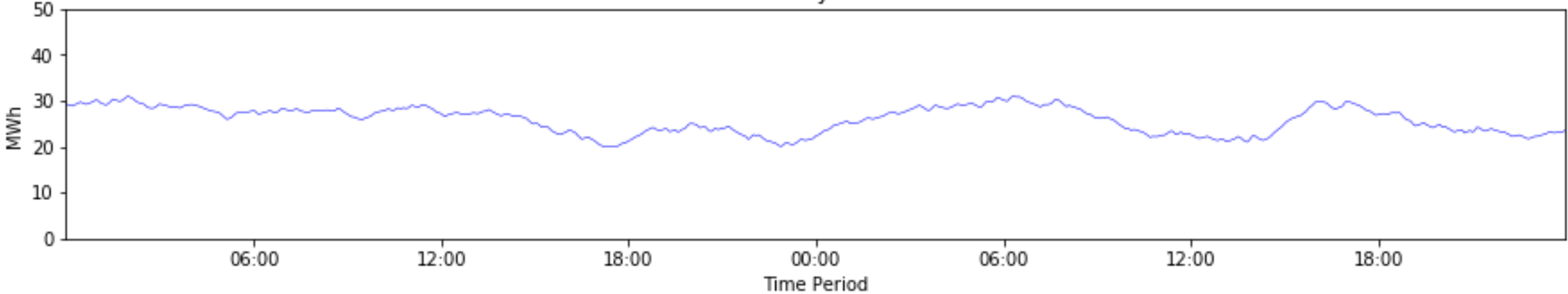


BATTERY UTILISATION FOR FREQUENCY RESPONSE

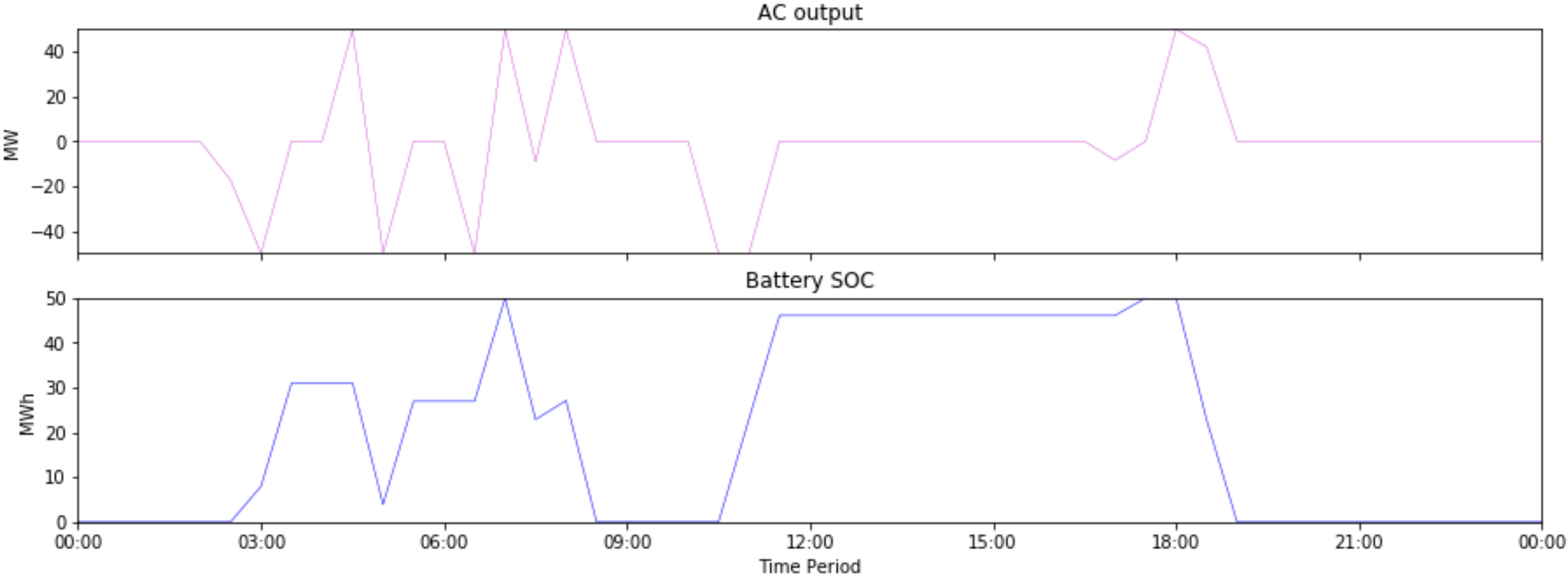
AC output



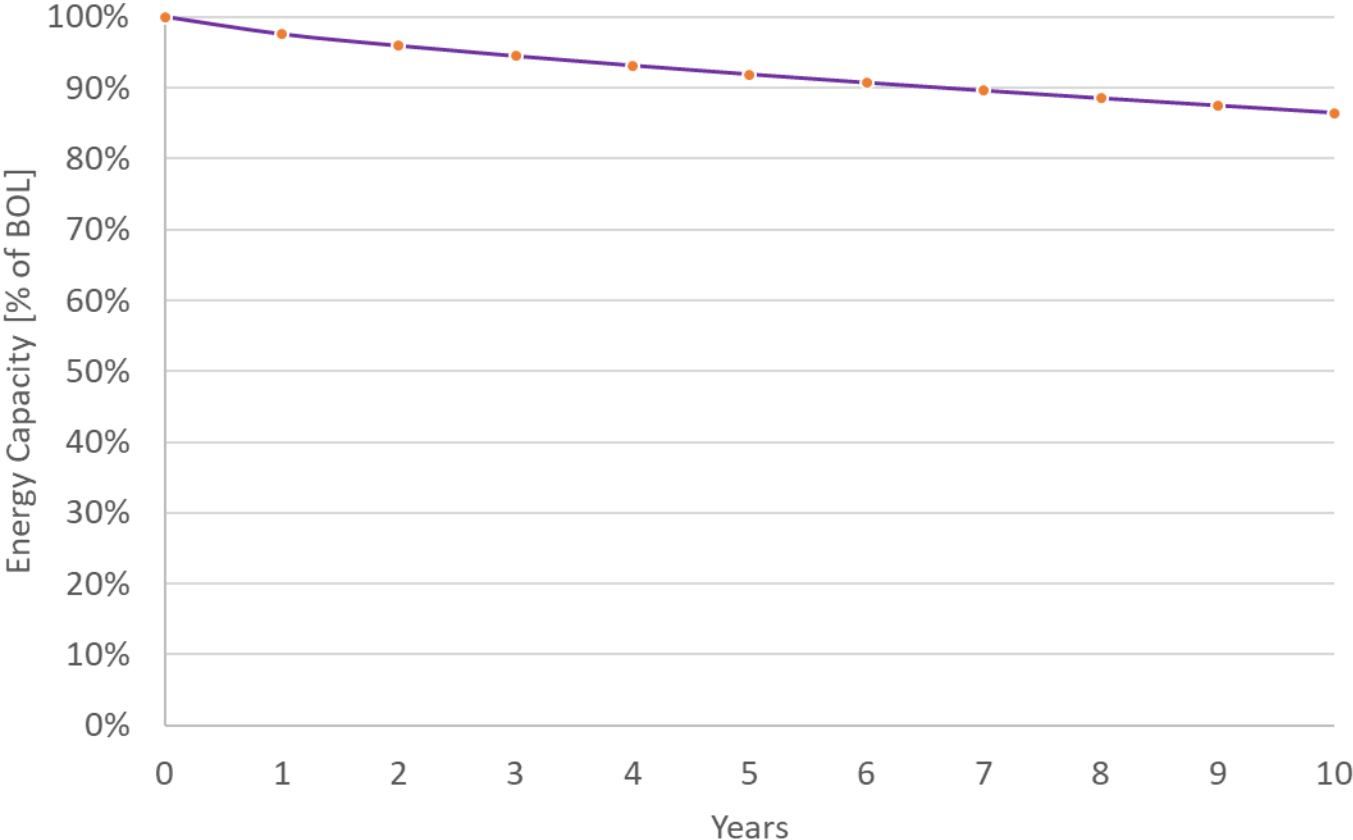
Battery SOC



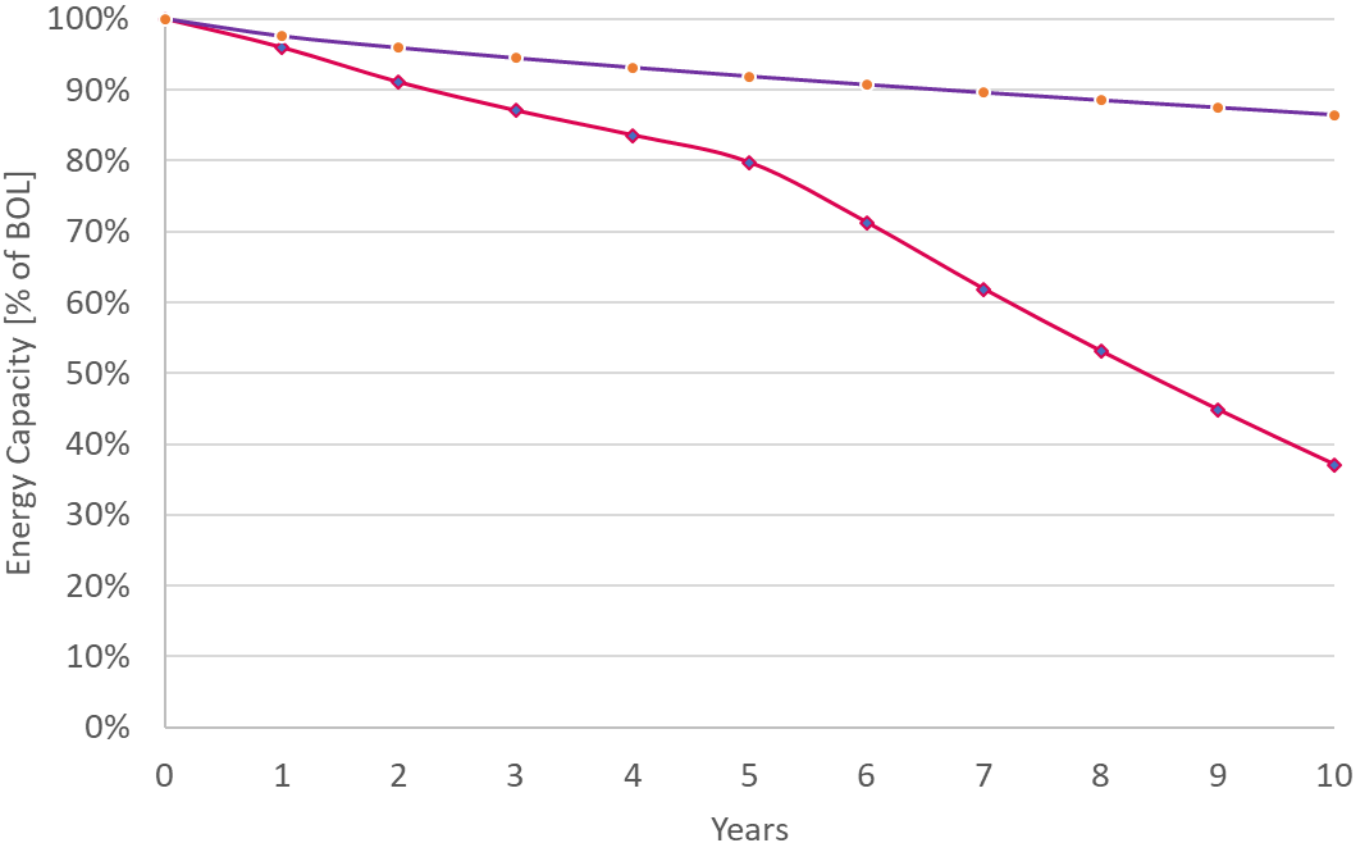
BATTERY UTILISATION FOR TRADING



BATTERY DEGRADATION PROFILES



BATTERY DEGRADATION PROFILES





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THANK YOU

THE POWER DRIVING CHANGE

