

Aircraft parameters: empty weight fraction = 0.55; battery energy density = 400 Wh/kg; 5 rotor blades; autonomy enabled  
Sizing mission (piloted): range = 100 nmi; 3 passengers; 120s hover time; reserve type = FAA helicopter VFR (20-minute loiter time)  
Revenue mission (piloted): range = 50 nmi; 2.0 passengers; 30s hover time; no reserve; charger power = 200 kW  
Deadhead mission (autonomous): range = 50 nmi; 0.0 passengers; 30s hover time; no reserve; deadhead ratio = 0.2

