$$\text{battery capacity} \geq \text{total power} \times \text{endurance}, \tag{0.1}$$

$$\begin{aligned}
\text{total power} &= \text{actuation power} + \text{extra power},\\
\text{weight} &= \text{total mass} \times \text{gravity},\\
\text{actuation lift} &\geq \text{weight},\\
\text{labor cost} &= \text{cost per replacement} \times \text{battery maintenance},\\
\text{total cost} &= \text{battery cost} + \text{actuation cost} + \text{labor cost},\\
\text{total mass} &= \text{battery mass} + \text{actuation mass} + \text{payload}.
\end{aligned} \tag{0.2}$$

{{eq:drone_eq_last}}