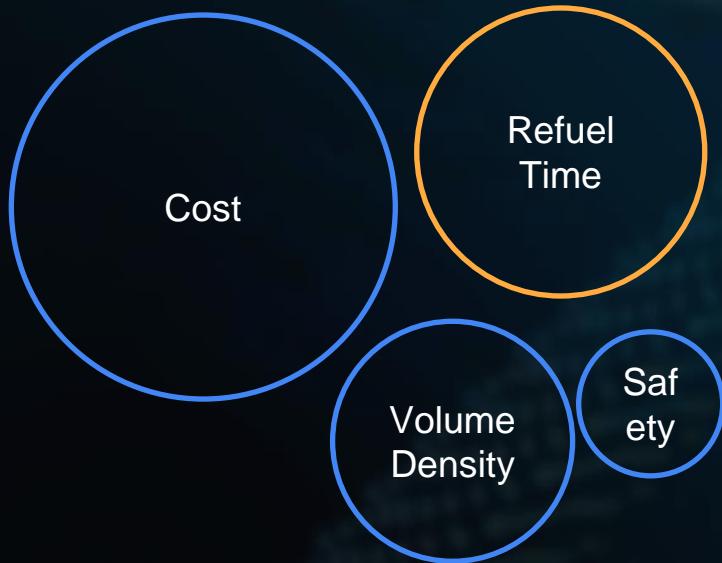


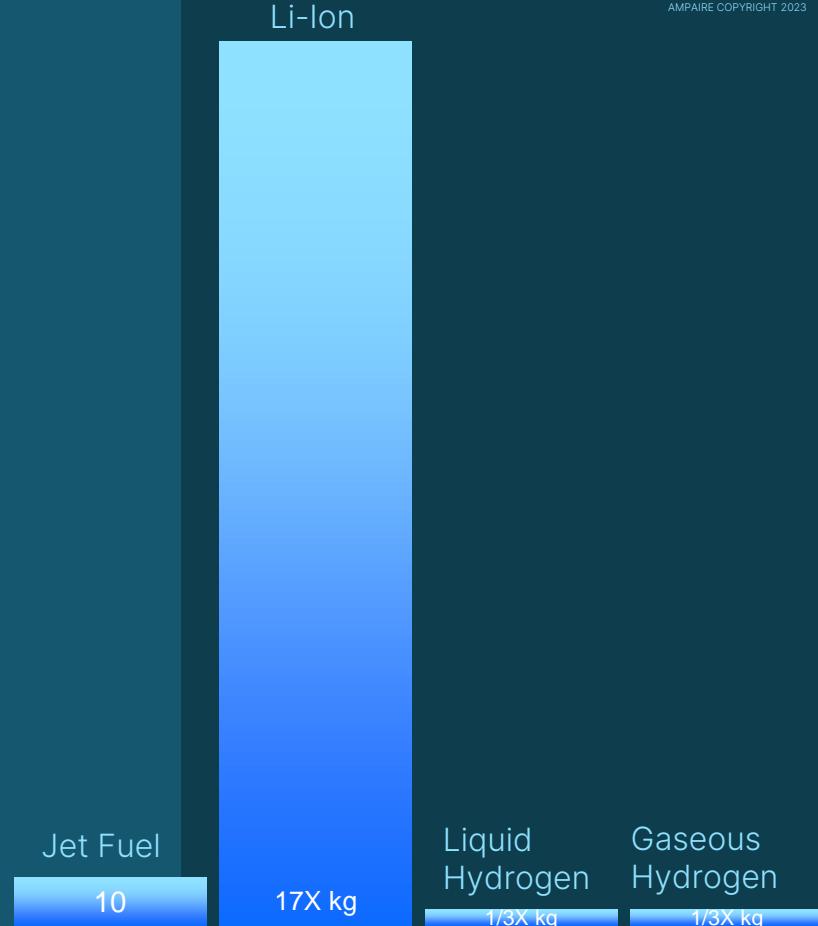
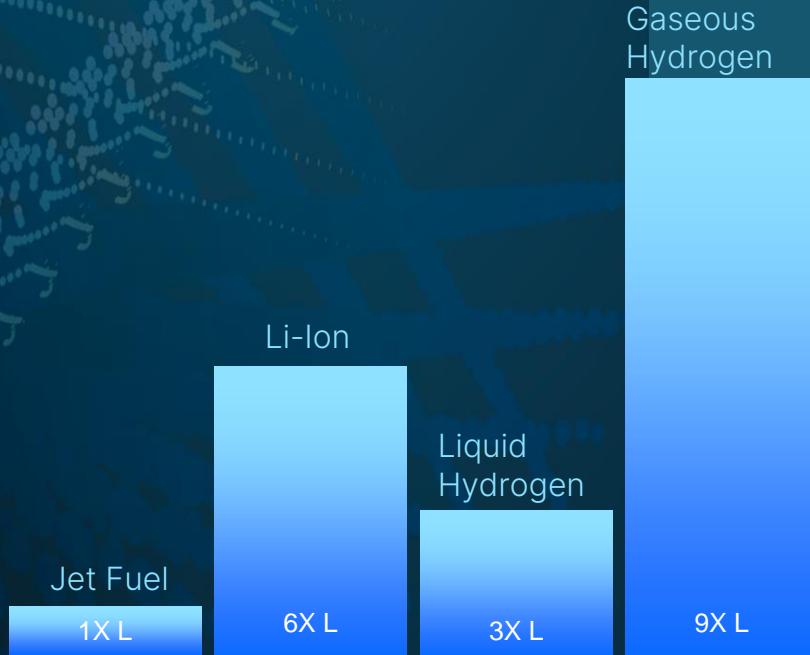
ESS Challenges, Past & Remaining—

Automotive—

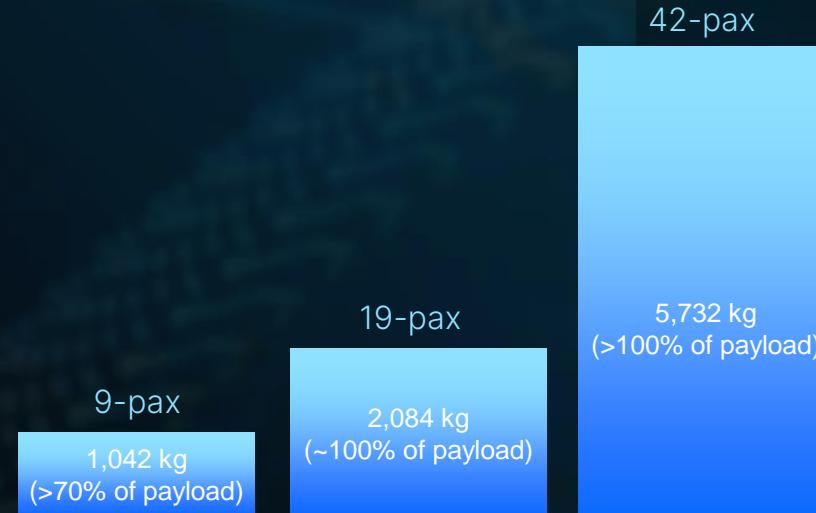
Aviation—



Energy storage density challenge



The elephant on the electric plane— IFR fuel reserves—



Energy storage thermal challenge

Irrecoverable Thermal
Runaway Onset ~130C



Raise this temp

Rapid life degradation



Raise this temp

Max Normal Battery Temp ~60C

SL Hot Day 39.4C



Fault tolerant, lightweight
reduction of temp rise in
discharge and charge