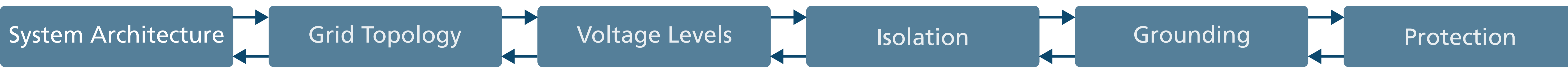


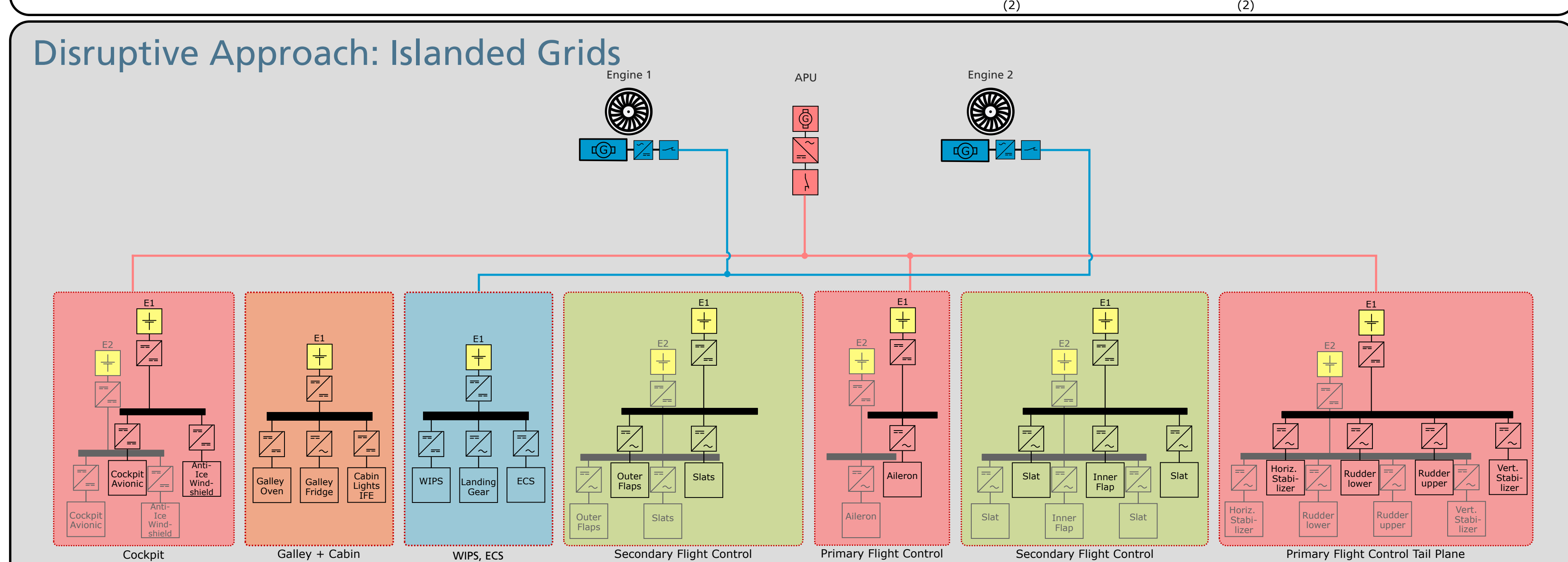
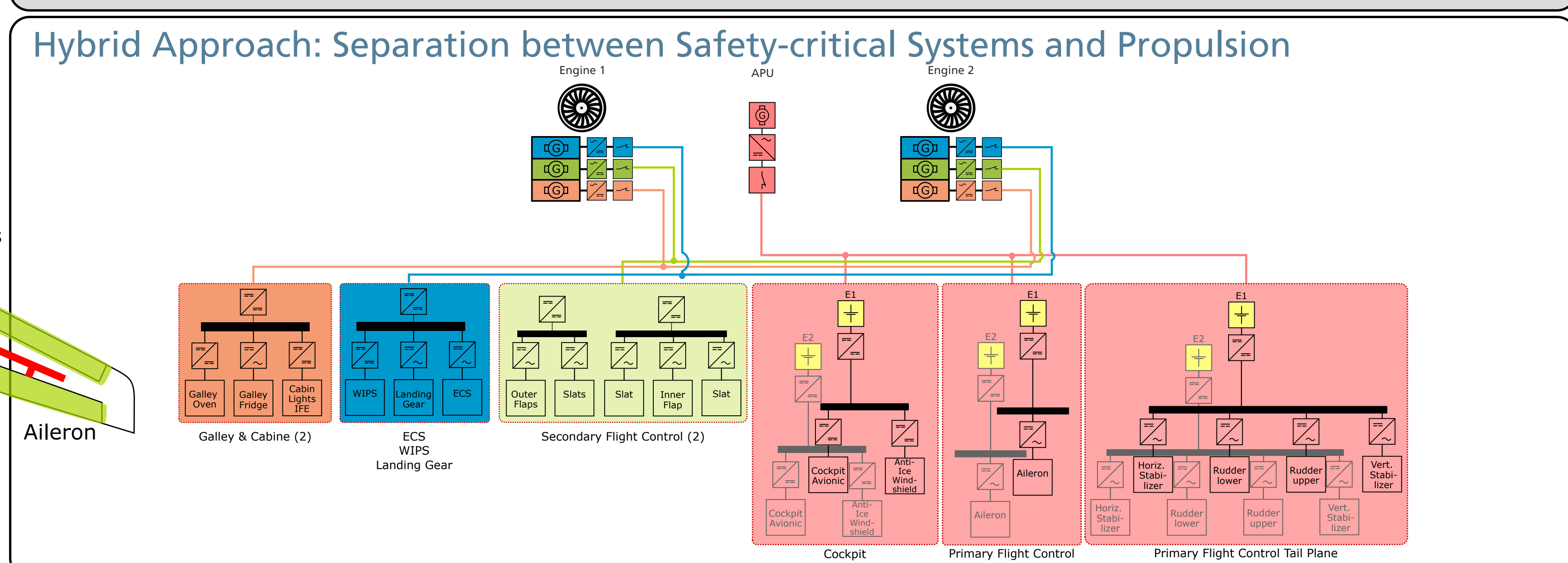
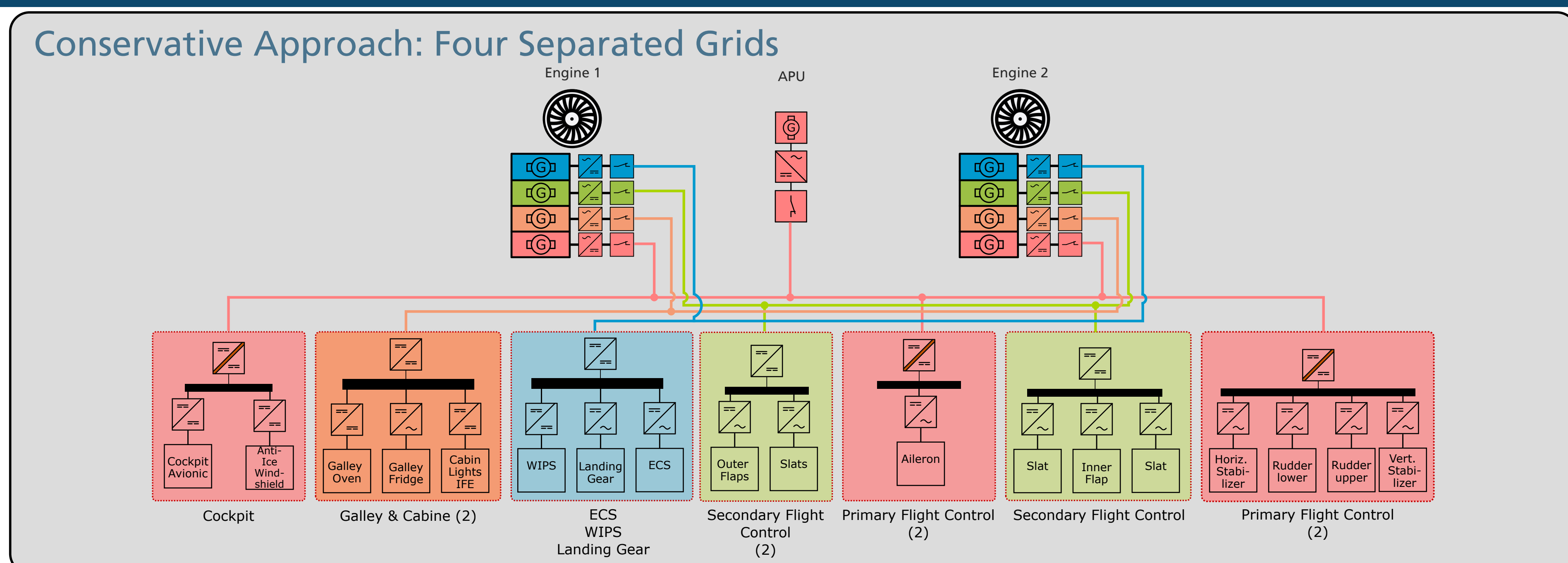
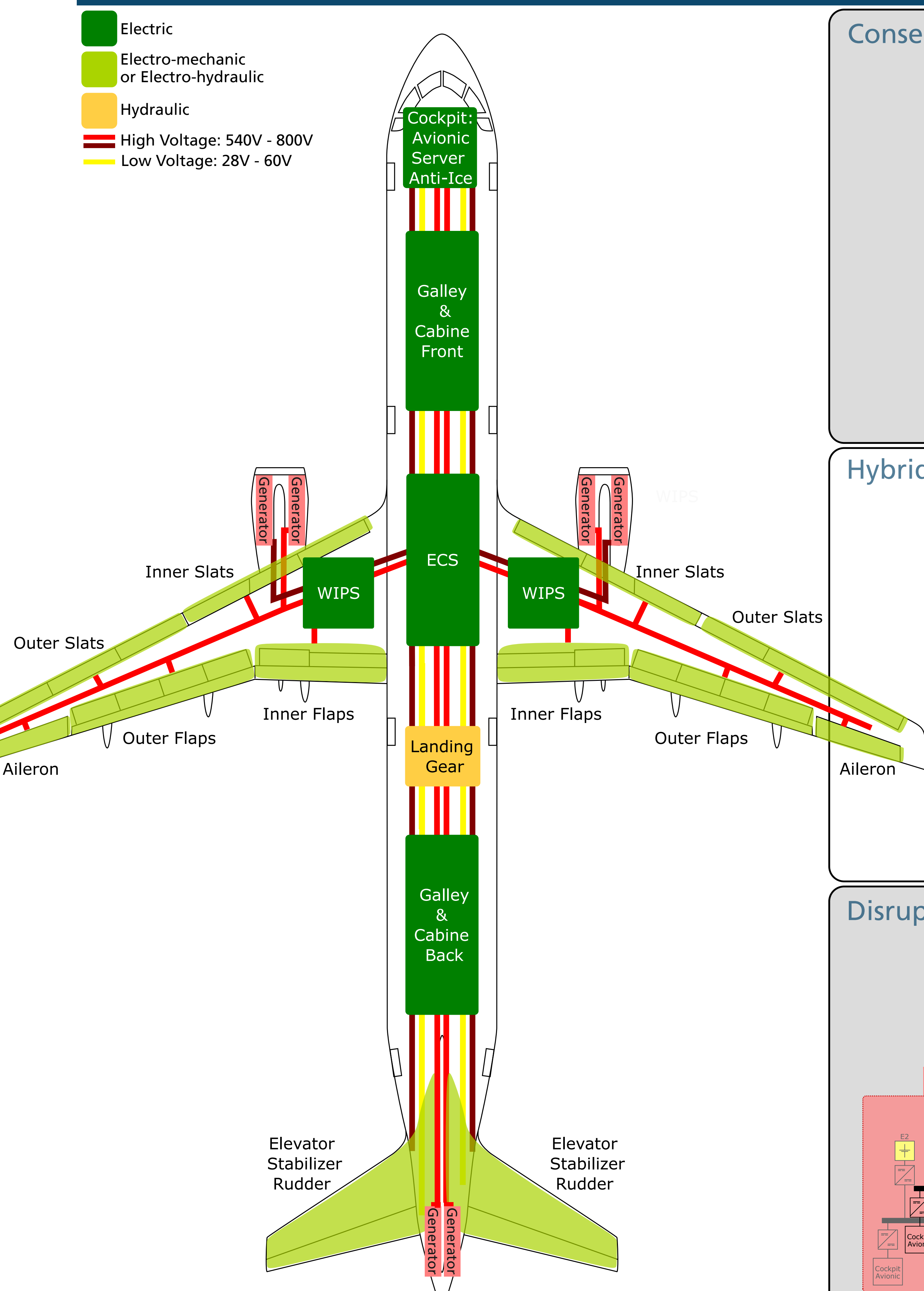
Architectural Design Considerations for Electric Power Systems in Future (More) Electric Aircraft

Andrea Reindl, Franciscus van der Linden

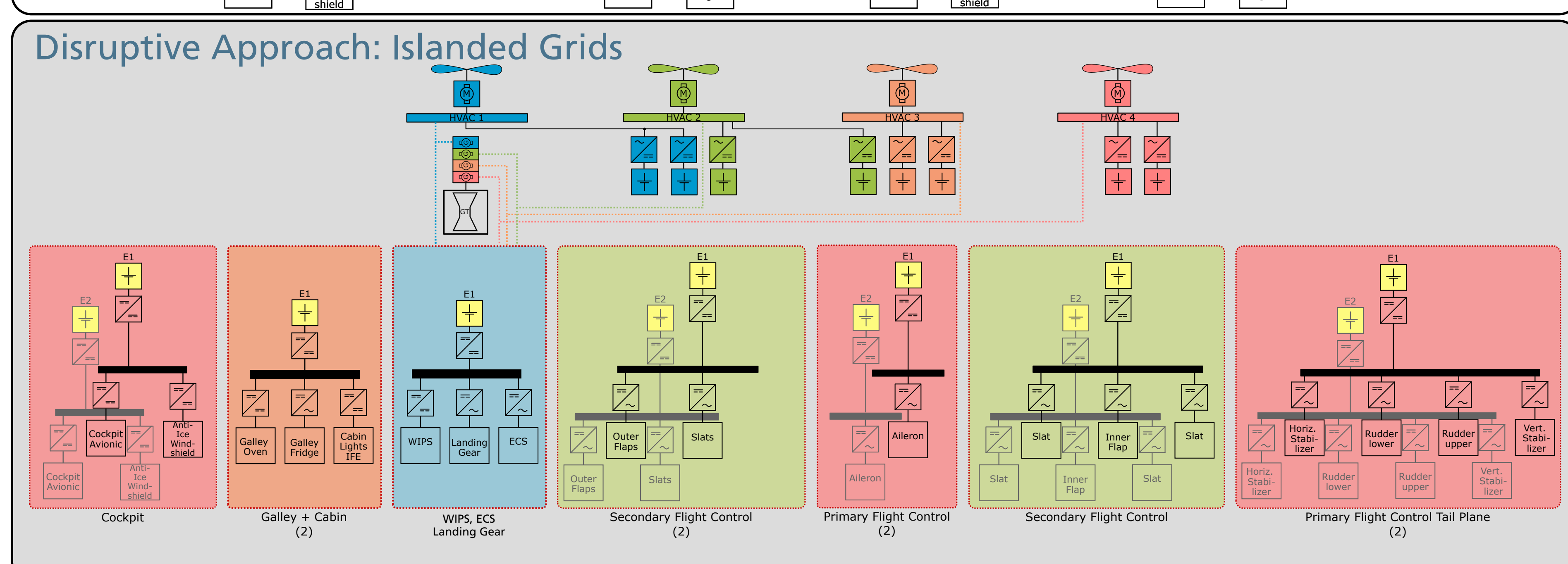
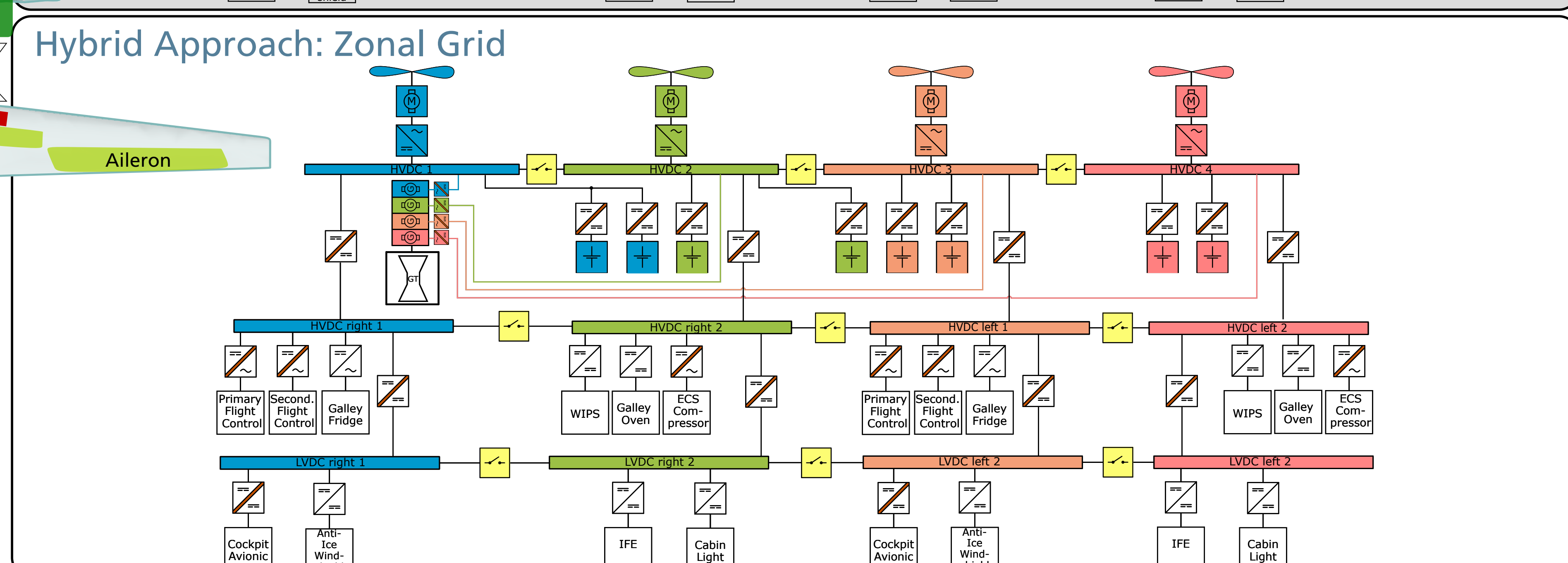
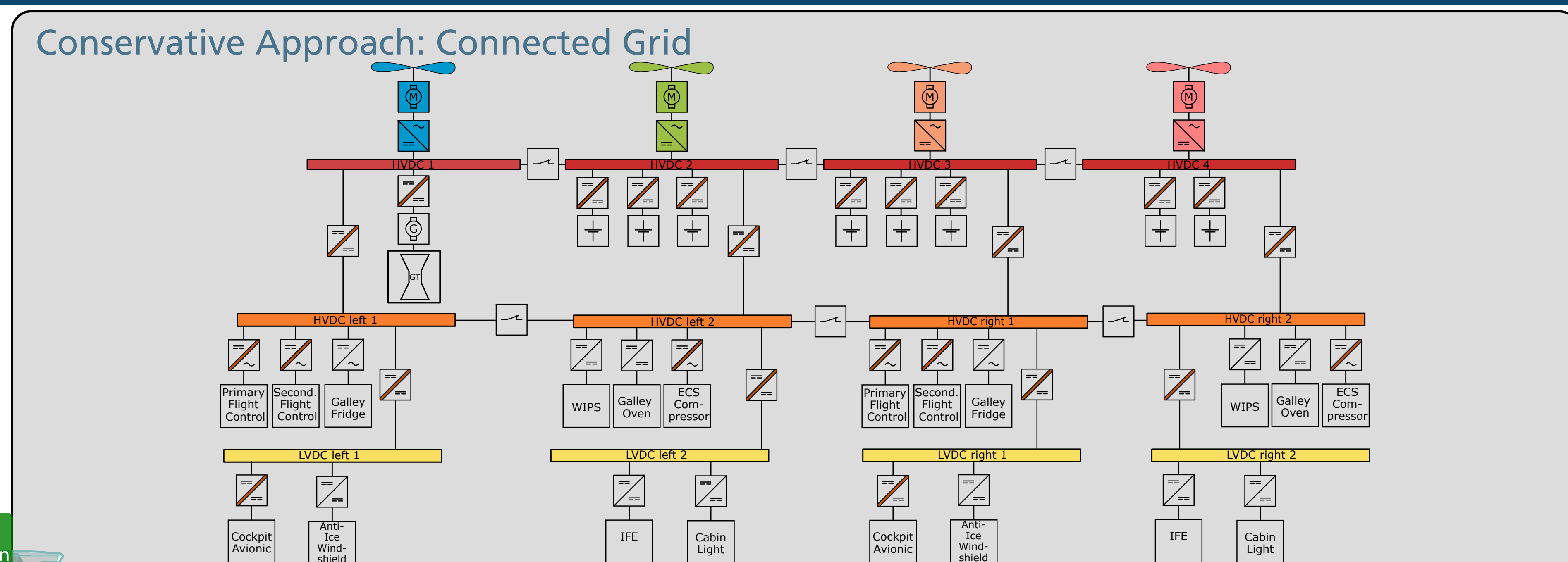
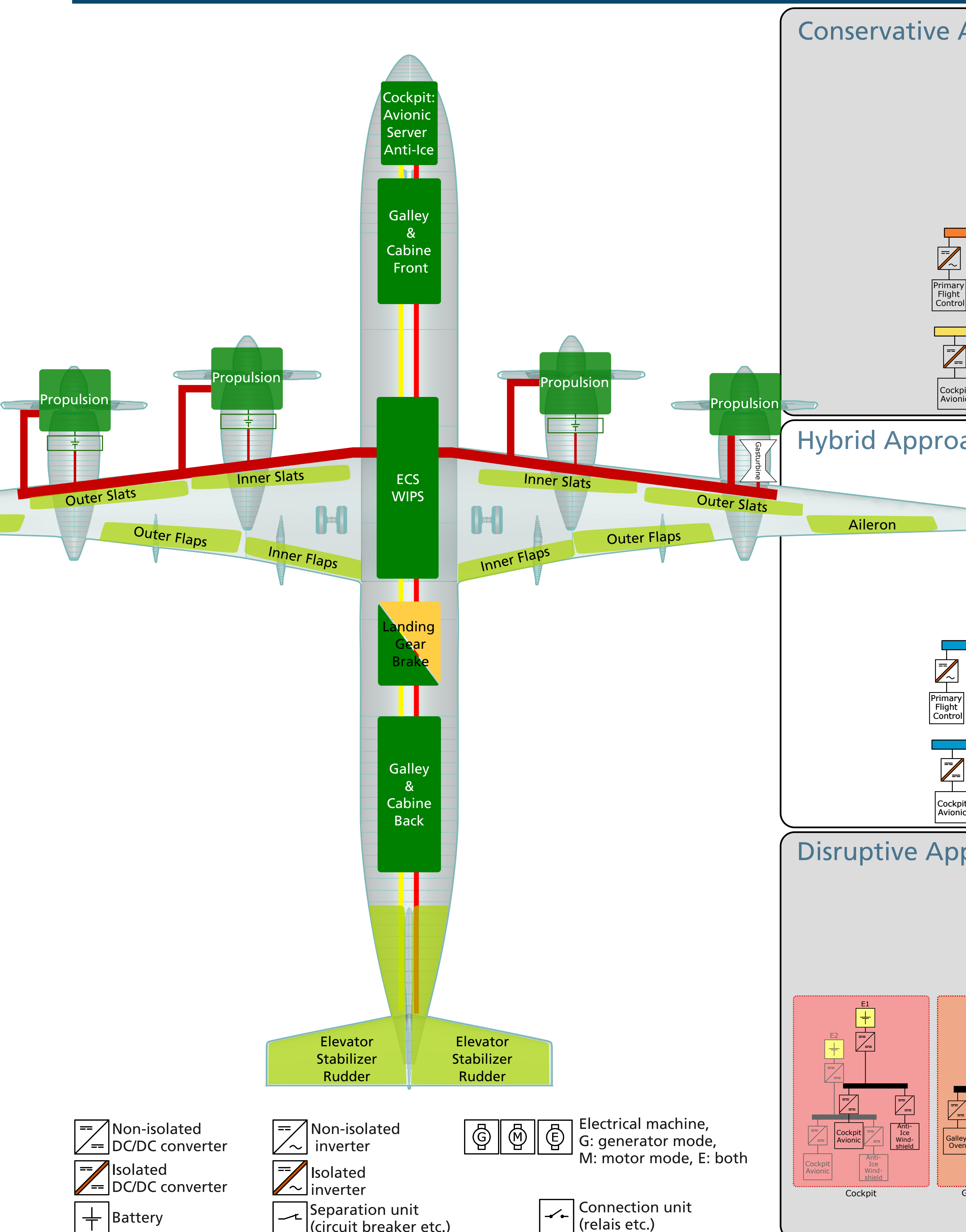
Electric Power System Design Process



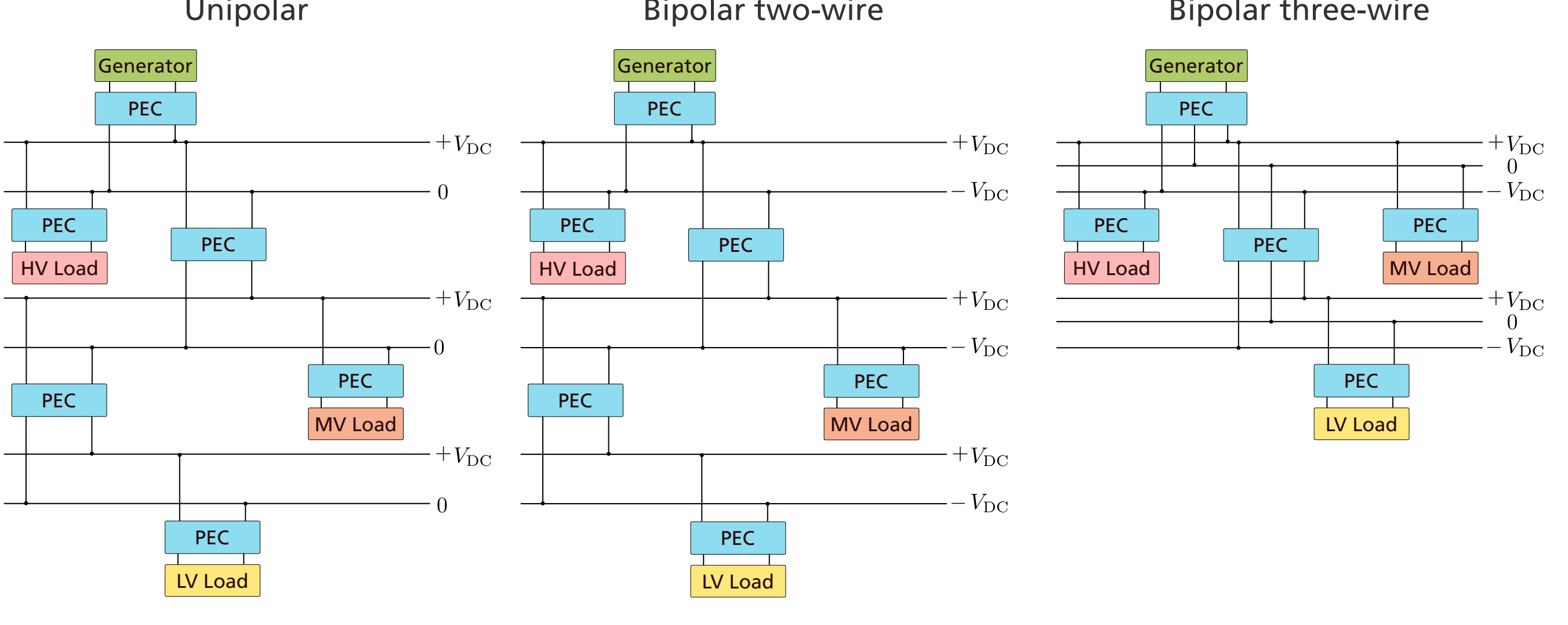
Electric Power System of More Electric Aircraft



Electric Power System of All Electric Aircraft

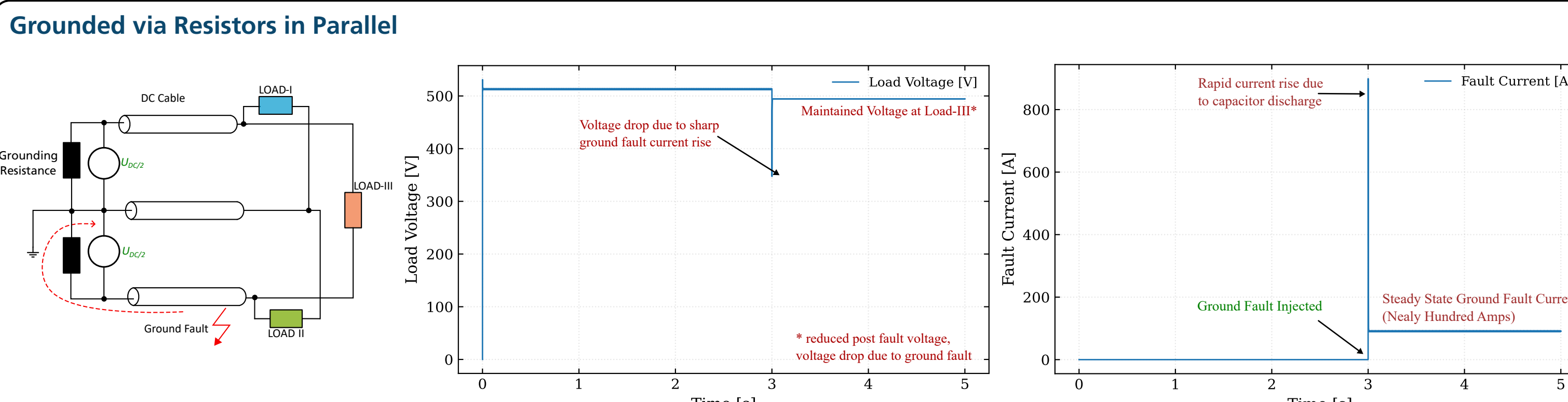
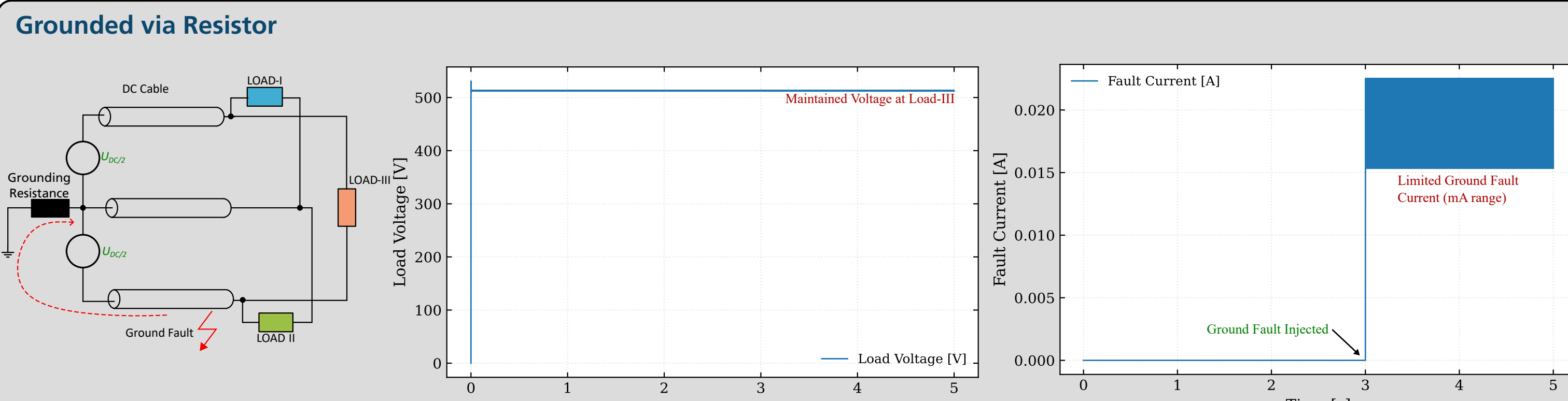


DC Grid Topology



	Unipolar	Bipolar Two-Wire	Bipolar Three-Wire
Corona Effect	↑	↓	↓
Short Circuit Current	↓	↑	↑
Overvoltage due Short Circuit	↑	↓	↓
Weight	→	→	↓
Power Capacity	↓	↑	↑↑
Safety	↓	↑	↑
EMI	↑	↓	↓
Reliability	→	→	↑
Efficiency	↓	↑	↑

Grounding



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