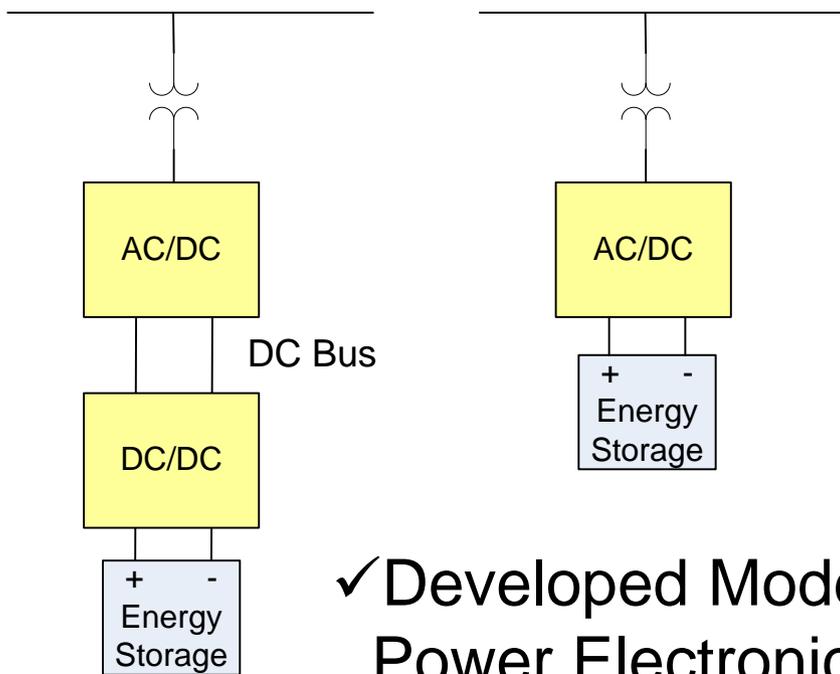


Battery Impedance Modeling for Power Electronics Applications

Daniel Fregosi
Stanley Atcitty
Subhashish Bhattacharya

North Carolina State University
Sandia National Laboratories
North Carolina State University



✓ Developed Model for
Power Electronics
and VRLA and Li-Ion
Batteries

- Grid-Tied Systems
- Power Smoothing
- Optimize for Cost and Performance
 - Configure Energy Storage System
 - Control Power Electronics to optimize for the energy storage