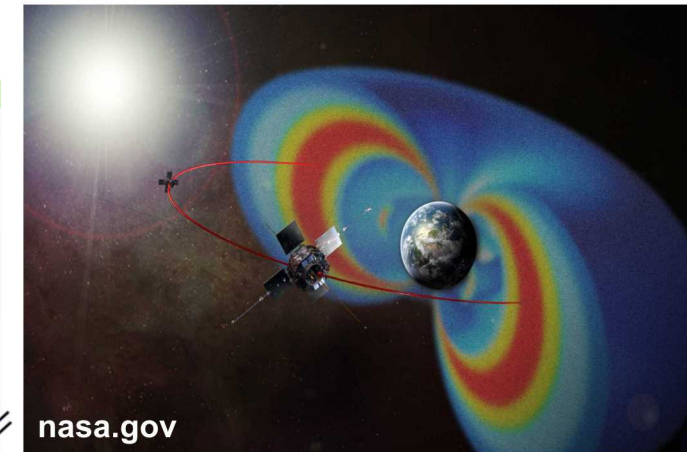
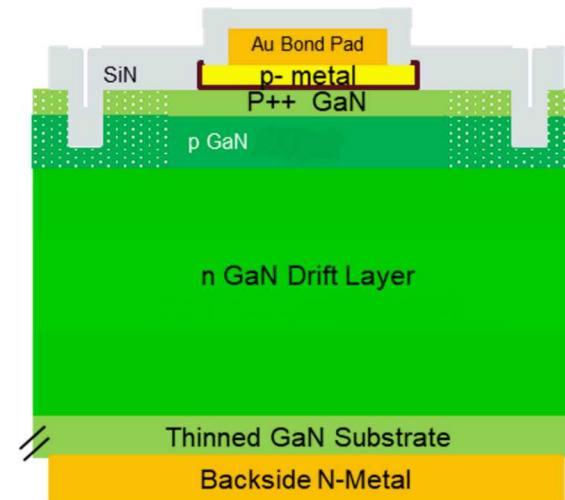
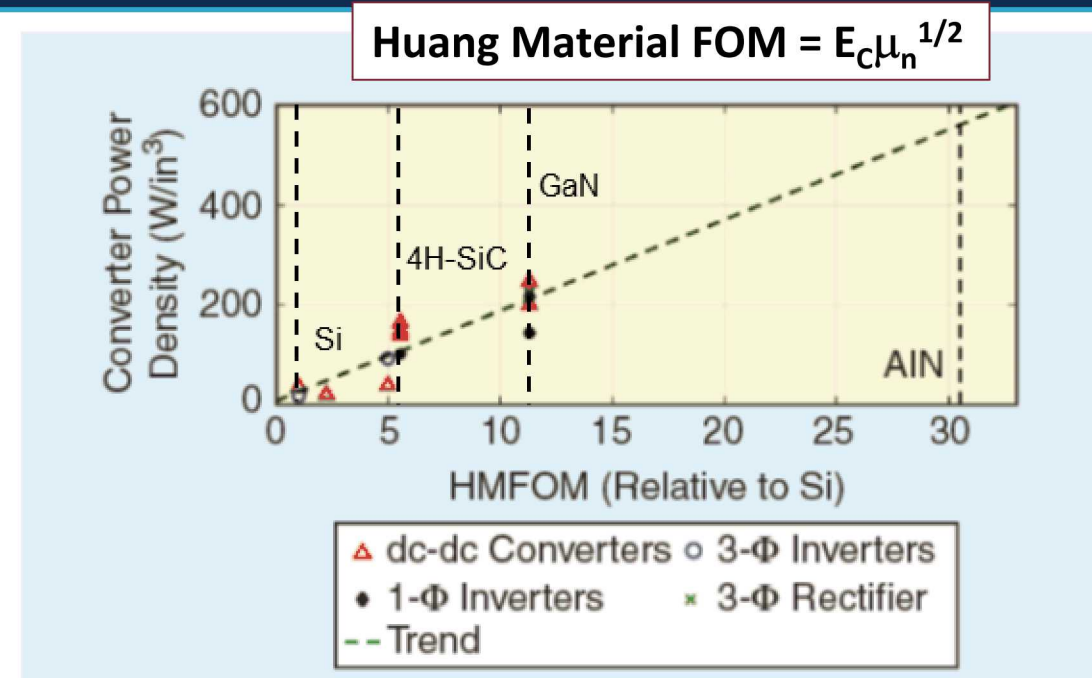




Size, Weight, and Resilience

- Recent developments in wide bandgap (WBG) semiconductors, have enabled a new generation of devices, resulting in power electronics with unprecedented power density and efficiency
- WBG materials also have some properties that enable superior resilience to harsh environments, including high temperature and radiation environments
- Sandia is developing new Gallium Nitride (GaN) components including vertical GaN (vGaN) diodes and vGaN transistors to realize these benefits



*R. J. Kaplar, J. C. Neely, et al., *IEEE Power Electronics Magazine* (March 2017)

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